## BAB V

## PENUTUP

Bab ini akan mengulas simpulan yang dapat ditarik dari keseluruhan penelitian yang sudah dianalisis, yaitu mengenai model susunan sikap (attitude) generasi millennial pada product placement yang ada di drama Korea.

### 5.1 Simpulan

### 5.1.1 Simpulan Analisis Deskriptif

Berdasarkan data yang diperoleh dari 213 responden, peneliti menarik simpulan sebagai berikut:

1. Responden didominasi oleh perempuan (92.96\%). Responden lakilaki merupakan responden minoritas (7.04\%).
2. Usia responden didominasi oleh usia 20 tahun (13.15\%), 21 tahun (26.29\%), dan 22 tahun (15.02\%).
3. Pekerjaan responden didominasi oleh mahasiswa (61.03\%) dan disusul oleh karyawan swasta (17.37\%).
4. Responden dominan menonton lebih dari 10 drama Korea dalam satu minggunya (38.97\%), disusul oleh responden yang biasa menonton 2 hingga 4 episode setiap minggu (23.47\%).
5. Merek dalam drama Korea Goblin yang paling diingat responden adalah Samsung (77.93\%) disusul oleh Body Shop (6.10\%).
6. Responden dominan tinggal di Yogyakarta (28.17\%), kemudian Surabaya (11.74\%), dan sisanya tersebar hampir di seluruh Indonesia.

### 5.1.2 Simpulan Analisis Regresi dan Mediasi

Berdasarkan hasil analisis regresi dalam penelitian, dapat ditarik simpulan:

1. Sikap terhadap aktor terbukti secara signifikan memengaruhi sikap terhadap merek.
2. Sikap terhadap aktor terbukti secara signifikan memengaruhi sikap terhadap product placement.
3. Kesesuaian antara aktor dan merek terbukti secara signifikan memengaruhi sikap terhadap merek.
4. Kesesuaian antara aktor dan merek terbukti secara signifikan memengaruhi sikap terhadap product placement.
5. Sikap terhadap karakter terbukti secara signifikan memengaruhi sikap terhadap product placement.
6. Sikap terhadap drama Korea terbukti secara signifikan memengaruhi sikap terhadap product placement.
7. Sikap terhadap product placement terbukti secara signifikan memengaruhi sikap terhadap merek.
8. Sikap terhadap product placement terbukti merupakan mediasi penuh pengaruh sikap terhadap aktor pada sikap terhadap merek.
9. Sikap terhadap product placement terbukti merupakan mediasi penuh pengaruh kesesuaian aktor dan merek pada sikap terhadap merek.

### 5.2 Implikasi Manajerial

1. Perusahaan dapat menggunakan product placement dalam drama Korea sebagai salah satu alat pemasaran mereka. Perusahaan yang melakukan product placement dapat menjangkau penonton, terutama pada generasi millennial (kafe atau restoran, ponsel, dan pakaian) serta berjenis kelamin perempuan (kosmetik dan ponsel yang memiliki kesan feminim). Generasi millennial yang didominasi oleh mahasiswa juga dapat menjadi dasar pemikiran untuk menempatkan produk-produk kebutuhan kelompok usia ini.
2. Pencarian latar belakang aktor selebriti perlu dilakukan sebelum berinvestasi pada product placement untuk mengetahui sikap target konsumen terhadap aktor yang akan berasosiasi dengan produk. Hal ini dilakukan agar sikap positif penonton terhadap aktor akan berpengaruh positif pula pada sikap mereka terhadap merek yang ada pada drama.
3. Pencarian latar belakang aktor tersebut harus diikuti dengan penilaian cocok atau tidaknya image yang dimiliki aktor tersebut dengan image yang dimiliki produk dan/atau merek yang akan berasosiasi dengannya di dalam drama. Hal tersebut terbukti penting untuk dilakukan, terutama bila produk yang akan berasosiasi dengan aktor merupakan produk kecantikan atau produk yang berkaitan dengan daya tarik seseorang.
4. Pemasar harus cepat dan pintar mencari informasi drama Korea yang akan diproduksi. Dengan demikian, pemasar dapat mengetahui kemungkinan disukai atau tidaknya drama Korea di kalangan masyarakat sesuai dengan target penonton drama tersebut. Hal tersebut dilakukan karena tidak menutup
kemungkinan drama tersebut akan ditonton masyarakat bahkan hingga di luar Korea Selatan. Informasi diterima atau tidaknya drama dapat diketahui dengan melihat animo masyarakat terhadap drama yang bersangkutan yang secara kalkulasi dapat dirangkum dan dilihat melalui rating yang biasa dirilis oleh beberapa lembaga di Korea Selatan. 1 ?
5. Perusahaan yang akan menggunakan product placement seharusnya mencari tahu kemungkinan disukai atau tidaknya karakteristik karakter utama yang ada dalam cerita yang nantinya akan berasosiasi dengan produk atau merek mereka.

### 5.3 Keterbatasan Penelitian dan Saran

1. Peneliti tidak berfokus pada banyak hubungan antar variabel meskipun ada kemungkinan variabel independen pun saling memengaruhi. Balarubramanian et al. (2014) menyatakan bahwa $\mathrm{A}_{\text {actor }}$ terbukti memiliki hubungan yang signifikan dengan $\mathrm{A}_{\text {char. }}$ Namun demikian, peneliti tidak menguji hubungan tersebut dan kemungkinan-kemungkinan hubungan lainnya yang dapat terjadi.
2. Penelitian ini bukan merupakan penelitian eksperimen. Oleh karena itu, peneliti tidak mampu mengontrol dan/atau mengetahui jumlah episode yang ditonton responden dan waktu terakhir mereka menonton drama tersebut.
3. Pengumpulan data dilakukan dengan menggunakan kuesioner online sehingga peneliti tidak berkemampuan melakukan pengawasan selama proses pengisian data, termasuk bila terjadi kesalahan teknis selama proses pengisian data.
4. Penelitian selanjutnya diharapkan dapat menambah variabel-variabel pendukung lainnya sehingga penelitian tersebut mampu menjelaskan lebih jauh
faktor-faktor pendukung sikap penonton terhadap merek yang konsumen lihat dalam drama Korea yang mereka tonton. Variabel tambahan tersebut seperti brand recognize yang kemungkinan bisa menjadi pendukung attitude towards the brand. Peneliti selanjutnya juga bisa melanjutkan penelitian kepada tahap pemasaran yang lebih jauh, yaitu untuk mengetahui pengaruh attitude towards the brand terhadap keinginan mencari informasi hingga keputusan pembelian yang dilakukan para penonton drama Korea.

## DAFTAR PUSTAKA

Arifiani, S. (2016). "Episode Pertama Goblin Pecahkan Rekor, Kalahkan Reply 1988". http://www.solopos.com/2016/12/05/drama-korea-episode-pertama-goblin-pecahkan-rekor-kalahkan-reply-1988-774223 (diakses pada 4 April 2017).

ArticleBio. (2015).http://articlebio.com/gong-yoo (diakses pada 8 Maret 2017).
Balasubramanian, S. K. (1994). Beyond Advertising and Publicity - Hybrid Messages and Public. Journal of Advertising, 29-46.

Balasubramanian, S. K., Patwardhan, H., Pillai, D., \& Coker, K. K. (2014). Modeling Attitude Constructs in Movie Product Placements. Journal of Product \& Brand Management, 516-531.

Bandura, A. (1977). Social Learning Theory. New York City: General Learning Press.

Belch, G. E., \& Belch, M. A. (2007). Advertising and Promotion - An Integrated Marketing Communications Perspective. New York: McGRAW HILL INTERNATIONAL EDITION.

Bennet, Rossmeisl, Turner, Holcombe, Young, Brown, \& Key. (2014). Diambil kembali dari Find a Psychologist: https://www.findapsychologist.org/parasocial-relationships-the-nature-of-celebrity-fascinations/ (diakses pada 10 April 2017)

Cherrier, H., \& Murray, J. B. (2004). The Sociology of Consumption: The Hidden Facet of Marketing. Journal of Marketing Management, 509-525.

Dens, N., De Pelsmacker, P., Wouters, M., \& Purnawirawan, N. (2012). Do You Like What You Recognize? The Effects of Brand Placement Prominence and Movie Plot Connection on Brand Attitude as Mediated by Recognition, 35-53.

Desai, K. K., \& Basuroy, S. (2005). Interactive Influence of Genre Familiarity, Star Power, and Critics' Reviews in the Cultural Goods Industry: The Case of Motion Pictures. Psychology \& Marketing, Vol. 22(3), 203-223.

Fernanda, E. D. (2015). "Kekuatan Bertahannya Korean Drama oleh Kaum Wanita". http://www.kompasiana.com/kutipankita/kekuatan-bertahannya-korean-drama-oleh-kaum-wanita_565adf2ef47e61f01dd14cb5 (diakses pada 2 April 2017).

Fore, C. W. (2012). Next Generation Leadership: Millennials as Leaders. United States: ProQuest LLC.

Ghosh, \& Ghosh, B. (2016). Impact of Packaging on Consumers' Buying Behaviour: A Case Study of Mother Dairy, Kolkata. KIIT Journal of Management Vol-12(I), 63-69.

Ghozali, I. (2006). Aplikasi Analisis Multivariate dengan SPSS. Semarang: Universitas Diponegoro.

Ghozali, I. (2009). Aplikasi Analisis Multivariate dengan Program SPSS. Semarang: Universitas Diponegoro.

Ghozali, I. (2012). Aplikasi Analisis Multivariate dengan Program SPSS. Semarang: Universitas Diponegoro.

Guennemann, F., \& Cho, Y. C. (2014). The Effectiveness Of Product Placement By Media Types: Impact Of Image And Intention To Purchase. Journal of Service Science, 29-42.

Hackley, C., \& Tiwsakul, R. A. (2006). Entertainment Marketing and Experiential Consumption. Journal of Marketing Communications, 63-75.

Hair, J. F., Anderson, R. E., Tatham, R. L., \& Black, W. C. (1998). Multivariate Data Analysis. New Jersey: Prentice-Hall.

Hasan, M. I. (2002). Pokok-Pokok Materi Metodologi Penelitian dan Aplikasinya. Jakarta: Gralia Indonesia.

Hill, R. (1998). What Sample Size is "Enough" in Internet Survey Research? IPCT$J$ Vol 6 No 3-4.

Ismail, Z. (2013). Human Brands: Investigating Antecedents to Consumers' Strong Attachment to Celebrities. Rev. Integr. Bus. Econ. Res. Vol 2(2), 53-59.

Jan, K., \& Martina, K. (2013). Product Placement: A Smart Marketing Tool Shifting a Company to the Next Competitive Level. Journal of Competitiveness, 98-114.

Jang, S. J. (2016). "PPL in Korean TV Dramas, Is It Excessive?" . http://www.knutimes.com/news/article.html?no=1516 (diakses pada 25 Februari 2017).

JIJI, \& AFP. (2014). "Product Placement Puts South Korean TV Dramas on Map". http://www.japantimes.co.jp/news/2014/06/22/world/product-placement-puts-s-korean-soaps-map/\#.WJwjkzt97IU (diakses pada 27 Februari 2017).

Jun, R. (2014). "Everyone Wants to Wear What Jun Ji Hyun and Kim Soo Hyun Wear, Product Placement in Dramas". https://www.soompi.com/2014/02/15/everyone-wants-to-wear-what-jun-ji-hyun-and-kim-soo-hyun-wear-product-placement-in-dramas/ (diakses pada 26 Februari 2017).

Kaushal, S. K., \& Kumar, R. (2016). Influence of Attitude Towards Advertisement on Purchase Intention: Exploring the Mediating Role of Attitude Towards Brand Using SEM Approach. IUP Journal of Marketing Management Vol. XV, No.4, 44-59.

Kong, F., \& Hung, K. (2012). Product Placement in Television Drama: Do Information Overload and Character Attribute Matter? International Journal of Trade, Economics and Finance, Vol. 3 No. 2, 96-102.

Kyles. (2005). Managing Your Multigenerational Workforce. Strategic Finance, 87(6), 52-55.

Motta, P. C., \& Schewe, C. (2008). Are marketing management decisions shaped during one's coming of age? Journal of Marketing Management Decisions, 1096-1110.

MR, \& WK. (2017). "Larisnya Lipstick Song Hye Kyo di 'Descendants' Bikin 'Goblin' Banjir PPL?". http://www.wowkeren.com/berita/tampil/00142495.html (diakses pada 27 Februari 2017).

O'Guinn, Allen, \& Semenik. (2003). Advertising and Integrated Brand Promotion. United States of America: Thompson - South-Western.

Pratama, A. P. (2016). "Berkat 'Goblin', Gong Yoo dan Kim Go Eun Puncaki Brand Model Iklan di Bulan Desember". https://www.kpopchart.net/2016/12/berkat-goblin-gong-yoo-dan-kim-go-eun-puncaki-brand-model-iklan-di-bulan-desember.html (diakses pada 24 Februari 2017).

Rangkuti. (2006). Measuring Customer Satisfaction. Jakarta: Gramedia Pustaka Utama.

Robbins, S. P., \& Judge, T. A. (2007). Organizational Behavior Twelfth Edition. New Jersey: Pearson.

Russell, C. A., \& Stern, B. B. (2006). Consumers, Characters, and Products: A Balance Model of Sitcom Product Placement Effect. Journal of Advertising vol. 35, 7-21.

Sari, D. F. (2015). Motif Menonton Drama Korea di Televisi oleh Remaja Surabaya. Commonline Departemen Komunikasi Vol. 4 No.1, 60-72.

Schiffman, L. G., \& Kanuk, L. L. (2010). Consumer Behavior Tenth Ed. New Jersey: Pearson.

Sekaran, U., \& Bougie, R. (2013). Research Methods for Business. United Kingdom: Wiley.

Septiari, E. D., \& Kusuma, G. H. (2016). Understanding the Perception of Millennial Generation toward Traditional Market (A Study In Yogyakarta). Review of Integrative Business and Economics Research, 30-43.

Srikhandi, A. (2016). Bintangi 'Goblin', Gong Yoo Siap Jadi Raja Iklan Korea Saat Ini. https://www.kapanlagi.com/showbiz/asian-star/bintangi-goblin-gong-yoo-siap-jadi-raja-iklan-korea-saat-ini-6067cc.html (diakses pada 10 Maret 2017).

Sugiyono. (2009). Metode Penelitian Administrasi. Bandung: CV Alfabeta.
Sugiyono. (2010). Metode Penelitian Kuantitatif Kualitatif \& RND. Bandung: Alfabeta.

Sugiyono. (2012). Memahami Penelitian Kualitatif. Bandung: Alfabeta.
Suliyanto. (2005). Analisis Data Dalam Aplikasi Pemasaran. Bogor: Ghalia.
Till, B. D., \& Busler, M. (2000). The match-up hypothesis - Physical Attractiveness, Expertise, And The Role of Fit on Brand Attitude, Purchase Intent and Brand Bbeliefs. Journal of Advertising, 1-13.

Zhao, X., Jr., J., \& Chen, Q. (2010). Reconsidering Baron and Kenny: Myths and Truths about Mediation Analysis. Journal of Consumer Research Vol. 37, 197-206.


## Identitas Responden

Bagian ini berisi pertanyaan mengenai identitas responden. Berilah tanda silang (X) pada abjad yang dirasa sesuai dengan pilihan Anda.

1. Jenis Kelamin
a. Laki-laki
b. Perempuan
2. Usia Tahun
3. Pekerjaan:
a. Mahasiswa, Universitas

b. Lainnya : $\qquad$
4. Jumlah episode rata-rata menonton drama Korea dalam satu minggu:
a. 1 episode
b. 2-4 episode
c. 5-7 episode
d. 8-10 episode
e. $>10$ episode
5. Apakah Anda pernah menonton drama Korea berjudul "Goblin"?
a. Pernah
b. Belum (tidak perlu melanjutkan kuesioner)
6. Apakah Anda sadar ada beberapa produk (product placement) yang diselipkan selama berjalannya cerita "Goblin" seolah-olah menjadi barang yang biasa digunakan setiap karakter?
a. Ya (Sebutkan produk dan merek yang menurut Anda paling sering muncul)
b. Tidak (tidak perlu melanjutkan kuesioner)
7. Siapakah nama aktor pemeran Kim Shin atau Goblin dalam drama tersebut?
a. Gong Yoo
b. Kim Go-Eun
c. Lee Dong Wook

## Attitude Toward the Actor (Aactor)

Beri skor pada aktor Gong Yoo dalam drama Korea Goblin


Mohon evaluasi drama Korea berjudul Goblin secara menyeluruh

| V16 | Drama Korea yang jelek | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Drama Korea yang Baik |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V17 | Drama Korea yang Tidak Ingin Saya Tonton | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Drama Korea yang Ingin Saya Tonton |
| V18 | Drama Korea yang Tidak Akan saya Rekomendasikan | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Drama Korea yang Akan Saya Rekomendasikan |

$\left.\begin{array}{|l|l|l|l|l|l|l|l|l|l|l|}\hline \text { V19 } & \begin{array}{l}\text { Drama Korea yang } \\ \text { Tidak Menarik } \\ \text { Perhatian Saya }\end{array} & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9\end{array} \begin{array}{l}\text { Drama Korea yang } \\ \text { Menarik Perhatian } \\ \text { Saya }\end{array}\right]$

## Attitude Toward the Product Placement ( $\mathrm{A}_{\mathrm{pp}}$ )

Beri skor yang menggambarkan perasaan Anda setiap ada Samsung yang muncul pada segmen drama.

| V20 | Buruk | 1 | 2 | 3 | 4 | 5 | Baik |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :--- |
| V21 | Tidak Suka | 1 | 2 | 3 | 4 | 5 | Suka |
| V22 | Mengganggu | 1 | 2 | 3 | 4 | 5 | Tidak Terganggu |
| V23 | Tidak Tertarik | 1 | 2 | 3 | 4 | 5 | Tertarik |

## Attitude Toward the Brand ( A b )

Beri skor untuk perasaan Anda mengenai merek Samsung setelah Anda melihatnya pada drama Goblin.

| V24 | Buruk | 1 | 2 | 3 | 4 | 5 | Baik |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :--- |
| V25 | Sangat Tidak Suka | 1 | 2 | 3 | 4 | 5 | Sangat Suka |
| V26 | Tidak Menyenangkan | 1 | 2 | 3 | 4 | 5 | Menyenangkan |
| V27 | Berkualitas Buruk | 1 | 2 | 3 | 4 | 5 | Berkualitas Baik |

## Attitude Toward Character (Achar)

Evaluasilah karakter Kim Shin (Goblin) yang diperankan Gong Yoo.

| V28 | Tidak Diinginkan | 1 | 2 | 3 | 4 | 5 | Diinginkan |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :--- |
| V29 | Tidak Berkesan | 1 | 2 | 3 | 4 | 5 | Berkesan |
| V30 | Tidak Diperankan <br> dengan Baik | 1 | 2 | 3 | 4 | 5 | Diperankan <br> dengan Baik |
| V31 | Tidak Mencerminkan <br> Pesona Gong Yoo | 1 | 2 | 3 | 4 | 5 | Mencerminkan <br> Pesona Gong Yoo |

## Fit Between Actor and Brand (Aactor-b)

Nilailah hubungan antara merek (brand) yang muncul dengan aktor Gong Yoo pada drama Korea Goblin

| Sangat | Sangat |
| :---: | :---: |
| Tidak Setuju | Setuju |


| V32 | Image Samsung sesuai dengan image Gong <br> Yoo | 1 | 2 | 3 | 4 | 5 |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: |
| V33 | Merek diperlihatkan Gong Yoo secara <br> natural | 1 | 2 | 3 | 4 | 5 |
| V34 | Merek diperlihatkan Gong Yoo secara <br> sempurna dengan alur cerita | 1 | 2 | 3 | 4 | 5 |





| 49 | P | 21 | Mahasiswa | Yogyakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50 | P | 21 | Mahasiswa | Jakarta | 8 s/d 10 | Samsung |
| 51 | P | 20 | Mahasiswa | Yogyakarta | - $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 52 | P | 22 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 53 | P | 20 | Mahasiswa | Yogyakarta | $>10$ | Body Shop |
| 54 | L | 21 | Mahasiswa | Yogyakarta | >10 | Samsung |
| 55 | P | 21 | Wirausaha | Yogyakarta | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 56 | P | 22 | Mahasiswa | Yogyakarta | $>10$ | Body Shop |
| 57 | P | 21 | Mahasiswa | Yogyakarta | >10 | Lainnya |
| 58 | P | 21 | Mahasiswa | Yogyakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 59 | P | 22 | Mahasiswa | Yogyakarta | $>10$ | Samsung |
| 60 | P | 21 | Mahasiswa | Yogyakarta | $>10$ | Samsung |
| 61 | P | 25 | Karyawan Swasta | Tanggerang | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 62 | P | 21 | Mahasiswa | Surabaya | 1 | Subway |
| 63 | P | 20 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 64 | P | 20 | Mahasiswa | Yogyakarta | >10 | Samsung |
| 65 | P | 20 | Mahasiswa | Yogyakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 66 | P | 21 | Mahasiswa | Yogyakarta | >10 | Subway |
| 67 | P | 21 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Canon |
| 68 | P | 19 | Mahasiswa | Yogyakarta | (2) $>10$ | Samsung |
| 69 | P | 19 | Mahasiswa | Yogyakarta | - $>10$ | Samsung |
| 70 | P | 21 | Mahasiswa | Yogyakarta | $28 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 71 | P | 22 | Mahasiswa | Yogyakarta | >10 | Samsung |
| 72 | P | 20 | Mahasiswa | Lampung | >10 | Samsung |
| 73 | P | 21 | Mahasiswa | Yogyakarta | >10 | Samsung |


| 74 | P | 22 | Mahasiswa | Yogyakarta | >10 | Samsung |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 75 | L | 22 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 76 | P | 21 | Mahasiswa | Tidak Menyebutkan | - $>10$ | Samsung |
| 77 | L | 18 | Mahasiswa | Yogyakarta | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 78 | L | 22 | Mahasiswa | Yogyakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 79 | P | 24 | Wirausaha | Tanggerang | $2 \mathrm{~s} / \mathrm{d} 4$ | iLoom |
| 80 | P | 22 | Karyawan Swasta | Jakarta | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 81 | P | 20 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 82 | P | 31 | Karyawan Swasta | Klaten | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 83 | P | 20 | Mahasiswa | Bogor | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 84 | L | 24 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 85 | P | 20 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 86 | P | 24 | Wirausaha | Bekasi | $>10$ | Samsung |
| 87 | P | 24 | Mahasiswa | Surakarta | $>10$ | Samsung |
| 88 | P | 18 | Mahasiswa | Pangkalpinang | $>10$ | Samsung |
| 89 | P | 24 | Karyawan Swasta | Bandung | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 90 | P | 19 | Mahasiswa | Bali | $>10$ b | Lainnya |
| 91 | L | 26 | Mahasiswa | Yogyakarta | >10 | Samsung |
| 92 | P | 22 | Mahasiswa | Bandung | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 93 | P | 22 | Lainnya | Depok | $2 \mathrm{~s} / \mathrm{d} 4$ | Body Shop |
| 94 | P | 25 | Wirausaha | Kupang | - $>10$ | Samsung |
| 95 | P | 24 | Karyawan Swasta | Surabaya | $\gg 10$ | Samsung |
| 96 | P | 25 | Lainnya | Bekasi | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 97 | P | 18 | Pelajar | Medan | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 98 | P | 28 | Karyawan Swasta | Jakarta | >10 | Lainnya |


| 99 | P | 27 | Guru | Solok | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | P | 20 | Mahasiswa | Yogyakarta | $8 \mathrm{~s} / \mathrm{d} 10$ | Body Shop |
| 101 | P | 20 | Mahasiswa | Yogyakarta | 2 s/d 4 | Samsung |
| 102 | P | 29 | Ibu Rumah Tangga | Jakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 103 | P | 25 | Karyawan Swasta | Indragiri Hulu | $>10$ | Samsung |
| 104 | P | 24 | Ibu Rumah Tangga | Pangkajene, Sulawesi Selatan | >10 | Samsung |
| 105 | P | 32 | PNS | Jakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Lainnya |
| 106 | P | 33 | Karyawan Swasta | Ungaran | $2 \mathrm{~s} / \mathrm{d} 4$ | Body Shop |
| 107 | P | 27 | Karyawan Swasta | Bandung | $2 \mathrm{~s} / \mathrm{d} 4$ | Baskin Robbins |
| 108 | P | 22 | Karyawan Swasta | Sukabumi | $5 \mathrm{~s} / \mathrm{d} 7$ | Lainnya |
| 109 | P | 24 | Karyawan Swasta | Tebing Tinggi | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 110 | P | 28 | Guru | Kupang | $>10$ | Samsung |
| 111 | P | 22 | Wirausaha | Subang | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 112 | P | 30 | Mahasiswa | Medan | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 113 | P | 30 | PNS | Tidak Menyebutkan | $>10$ | Samsung |
| 114 | P | 29 | Lainnya | Palu | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 115 | L | 25 | Wirausaha | Sukoharjo | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 116 | P | 20 | Mahasiswa | Banten | >10 | Discovery |
| 117 | P | 21 | Mahasiswa | Bali | $8 \mathrm{~s} / \mathrm{d} 10$ | Body Shop |
| 118 | P | 30 | Wirausaha | Yogyakarta | (2) $>10$ | Samsung |
| 119 | P | 20 | Karyawan Swasta | Banjarbaru | - >10 | Samsung |
| 120 | P | 18 | Pelajar | Surabaya | $22 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 121 | P | 17 | Pelajar | Surabaya | $2 \mathrm{~s} / \mathrm{d} 4$ | Baskin Robbins |
| 122 | P | 23 | Mahasiswa | Semarang | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 123 | P | 31 | Wirausaha | Payakumbuh, Sumatra Barat | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |


| 124 | P | 19 | Mahasiswa | Sumedang | $>10$ | Samsung |
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| 125 | P | 17 | Pelajar | Surabaya | $>10$ | Lainnya |
| 126 | P | 30 | Karyawan Swasta | Jakarta | - $>10$ | Samsung |
| 127 | P | 23 | Lainnya | Tidak Menyebutkan | $>10$ | Samsung |
| 128 | P | 25 | Karyawan Swasta | NTB | $>10$ | Samsung |
| 129 | P | 24 | Karyawan Swasta | Sukabumi | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 130 | P | 21 | Karyawan Swasta | Rembang | $>10$ | Samsung |
| 131 | L | 17 | Mahasiswa | Surabaya | $2 \mathrm{~s} / \mathrm{d} 4$ | Lainnya |
| 132 | P | 28 | Guru | Serang | 5 s/d 7 | Samsung |
| 133 | P | 19 | Mahasiswa | Kendari, Sulawesi Tenggara | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 134 | P | 21 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 135 | P | 23 | Karyawan Swasta | Sidoarjo | $>10$ | Samsung |
| 136 | P | 21 | Mahasiswa | Kalimantan Timur | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 137 | P | 23 | Ibu Rumah Tangga | Banjarmasin | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 138 | P | 28 | Wirausaha | Tegal | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 139 | P | 28 | Guru | Malang | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 140 | P | 22 | Mahasiswa | Madura | $>10$ | Samsung |
| 141 | P | 21 | Mahasiswa | Depok | $5 \mathrm{~s} / \mathrm{d} 7$ | Samsung |
| 142 | P | 22 | Mahasiswa | Tanggerang | $>10$ | Samsung |
| 143 | P | 23 | Mahasiswa | Bogor | - 2 s/d 4 | Samsung |
| 144 | P | 19 | Mahasiswa | Yogyakarta | $5 \mathrm{~s} / \mathrm{d} 7$ | Lainnya |
| 145 | P | 19 | Mahasiswa | Makassar | $>20$ | Subway |
| 146 | P | 25 | Karyawan Swasta | Semarang | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |
| 147 | P | 21 | Mahasiswa | Yogyakarta | $2 \mathrm{~s} / \mathrm{d} 4$ | Samsung |
| 148 | P | 22 | Karyawan Swasta | - Bekasi | $8 \mathrm{~s} / \mathrm{d} 10$ | Samsung |






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|  | 9 | $\cdots$ | － | $\wedge$ | － | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | i | $\stackrel{\sim}{\sim}$ | － | $\stackrel{1}{2}$ | $\stackrel{1}{2}$ | $\stackrel{\square}{\square}$ | $\pm$ | i | $=$ | $\stackrel{\text { N }}{ }$ | $\stackrel{\sim}{\sim}$ |
|  | in | is | is | $\checkmark$ | ¢ | － | － | in | $\sim$ | － | in | n | － | － | in | － | $\sim$ | $\sim$ |
|  | ナ | n | n | $\checkmark$ | ¢ | $\checkmark$ | $\sim$ | in | n | in | n | $\cdots$ | $\checkmark$ | m | n | － | ぃ | 4 |
|  | $\llcorner$ | $\sim$ | ค | $\checkmark$ | is | $m$ | in | $\bigcirc$ | $\sim$ | n | ぃ | in | $\checkmark$ | m | $\cdots$ | $\llcorner$ | $\sim$ | is |
|  | ぃ | ค | ぃ | n | ↔ | $\checkmark$ | $\checkmark$ | ↔ | เ | in | ぃ | $\cdots$ | ＋ | ＋ | $\cdots$ | $\checkmark$ | $\sim$ | 15 |
|  | $\checkmark$ | $\otimes$ | $\stackrel{\Vdash}{\sim}$ | ヘ | さ | ¢ | 䫆 | \％ | ¢ | $\stackrel{\square}{\circ}$ | N | N | $\stackrel{\rightharpoonup}{2}$ | ¢ | $\stackrel{\square}{\circ}$ | \％ | $\stackrel{\sim}{\sim}$ | ̇ |
|  | $\checkmark$ | in | $\sim$ | $\sim$ | $\sim$ | ¢ | $\checkmark$ | $\sim$ | $\llcorner$ | $\sim$ | $\sim$ | $\sim$ | $\sim$ | ค | $\cdots$ | $\checkmark$ | 15 | is |
|  | $\checkmark$ | in | n | $\bullet$ | n | ↔ | $\cdots$ | － | n | $\checkmark$ | に | ¢ | － | $\checkmark$ | is | n | in | $\sim$ |
|  | $m$ | is | is | is | n | ぃ | ＊ | is | in | in | is | is | in | ค | n | $\sim$ | in | $\sim$ |
|  | $\checkmark$ | n | is | ค | $\cdots$ | n | ค | is | $\llcorner$ | is | is | $\sim$ | n | $\checkmark$ | $\sim$ | in | ぃ | $\sim$ |
|  | $\checkmark$ | $\sim$ | $\llcorner$ | in | ค | $\checkmark$ | $\sim$ | n | $\sim$ | n | ぃ | ค | ค | n | $\llcorner$ | n | $\llcorner$ | $\sim$ |
|  | $\checkmark$ | n | $\sim$ | n | $\sim$ | n | ＊ | $\checkmark$ | m | ぃ | $\cdots$ | $\sim$ | $\checkmark$ | n | $\sim$ | $\checkmark$ | $\cdots$ | $\sim$ |
|  | $\checkmark$ | ¢ | n | n | $\sim$ | n | $\checkmark$ | $\checkmark$ | ぃ | in | $\sim$ | n | $\checkmark$ | in | $\sim$ | $\checkmark$ | n | $\cdots$ |
|  | in | ค | n | n | $\sim$ | n | $\checkmark$ | $m$ | n | n | $\sim$ | ぃ | n | ค | ぃ | $\checkmark$ | n | $\sim$ |
|  | － | ＋ | n | n | $\checkmark$ | ＋ | m | $m$ | m | $\checkmark$ | ナ | ＋ | $\checkmark$ | － | n | m | n | $\cdots$ |
|  | $\checkmark$ | $\checkmark$ | $\sim$ | ¢ | $\sim$ | $\checkmark$ | m | $\checkmark$ | m | m | $\sim$ | n | $\checkmark$ | ¢ | $\cdots$ | m | m | $\llcorner$ |
|  | ＊ | m | n | m | $\llcorner$ | ＋ | m | m | in | ค | － | n | n | $m$ | $\sim$ | m | is | $\checkmark$ |
|  | ＋ | $\checkmark$ | n | ぃ | is | $\checkmark$ | ＊ | $\checkmark$ | $\infty$ | ค | $\sim$ | ぃ | n | － | ค | m | n | $\sim$ |
|  | $\checkmark$ | m | n | in | $\sim$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | ぃ | $\checkmark$ | $\checkmark$ | $\checkmark$ | is | ＊ | $m$ | m | n | $\sim$ |
|  | in | ¢ | n | n | $\sim$ | ＋ | ■ | n | n | n | $\sim$ | n | n | $m$ | $\cdots$ | ＋ | n | $\sim$ |
|  | ＋ | ค | ぃ | ぃ | n | ＋ | ナ | $\checkmark$ | $\sim$ | ぃ | $\sim$ | $\checkmark$ | n | m | n | $\checkmark$ | n | $\cdots$ |
|  | 6＜I | 08I | 18I | 281 | ع8I | ＋81 | S8I | 981 | L8I | 881 | 68 I | 061 | 161 | 26I | \＆6I | t61 | S6I | 961 |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| n | m | m | $\checkmark$ | m | $\checkmark$ | $\checkmark$ | $m$ | n | $\checkmark$ | n | $\checkmark$ | $\checkmark$ | m | m | in | n | n |
| ぃ | m | m | $\checkmark$ | m | $\checkmark$ | $\checkmark$ | m | $\cdots$ | $\cdots$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | m | m | $\checkmark$ | $\sim$ | $\cdots$ |
| is | $m$ | $m$ | $m$ | $m$ | $\infty$ | $\checkmark$ | $m$ | $\cdots$ | $\sim$ | $\checkmark$ | $m$ | $\checkmark$ | m | m | ぃ | n | $\checkmark$ |
| $\stackrel{1}{\sim}$ | $\wedge$ | $\stackrel{\sim}{\sim}$ | $\xlongequal{2}$ | $\stackrel{\square}{\square}$ | $\stackrel{\infty}{\sim}$ | $\stackrel{\sim}{2}$ | 9 | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\wedge$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{2}$ | 9 | 9 | $\stackrel{\sim}{\sim}$ | $\stackrel{\infty}{\sim}$ |
| n | $\cdots$ | $\sim$ | $\checkmark$ | $\cdots$ | $\checkmark$ | n | n | is | is | n | $\checkmark$ | $\checkmark$ | in | is | $\checkmark$ | $\sim$ | $\checkmark$ |
| ๑ | $\cdots$ | $\sim$ | $\sim$ | n | in | n | in | in | n | n | ぃ | ぃ | n | n | ぃ | n | $\backsim$ |
| n | $\checkmark$ | $\sim$ | $\sim$ | is | $ぃ$ | $\sim$ | $\omega$ | $\sim$ | is | n | $\checkmark$ | ぃ | is | is | is | n | $\sim$ |
| ¢ | $\infty$ | is | ぃ | $m$ | $\checkmark$ | n | $\checkmark$ | in | n | is | $\stackrel{\square}{\square}$ | $\checkmark$ | in | $\checkmark$ | n | $\sim$ | $\checkmark$ |
| $\stackrel{1}{2}$ | 2 | $\underset{\sim}{\infty}$ | $\wedge$ | $\propto$ | $\pm$ | $\oplus$ | － | ～ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{2}$ | $\cdots$ | $\bigcirc$ | ๑ | $\stackrel{1}{2}$ | $\stackrel{\sim}{\sim}$ | i | $\wedge$ |
| n | in | n | $\checkmark$ | n | $\checkmark$ | $\checkmark$ | is | n | $\cdots$ | $\sim$ | ＋ | － | in | in | is | $\sim$ | $\checkmark$ |
| $\sim$ | is | is | $\checkmark$ | is | m | $\checkmark$ | n | is | $\cdots$ | $\sim$ | $m$ | $\checkmark$ | in | is | ＋ | is | $\checkmark$ |
| is | in | $\square$ | $\checkmark$ | $\checkmark$ | $\cdots$ | $\checkmark$ | $\sim$ | is | n | n | $m$ | $\checkmark$ | － | $\cdots$ | ＊ | n | $\checkmark$ |
| is | － | $\checkmark$ | is | $\checkmark$ | $\checkmark$ | $\checkmark$ | n | n | $\cdots$ | $\sim$ | m | － | ᄂ | is | in | is | $\sim$ |
| $\stackrel{\sim}{2}$ | $\wedge$ | $\because$ | $\stackrel{\square}{\square}$ | $\stackrel{\sim}{\sim}$ | $=$ | $\wedge$ | $\stackrel{\sim}{1}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | 2 | $\cdots$ | $\stackrel{\square}{\square}$ | न | $\stackrel{\square}{2}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{2}$ |
| in | in | $m$ | $m$ | $\checkmark$ | $\cdots$ | $m$ | n | in | $\cdots$ | $\cdots$ | $m$ | $\checkmark$ | m | is | in | is | $\checkmark$ |
| in | ＊ | $\sim$ | $\sim$ | $\checkmark$ | $\cdots$ | $\sim$ | is | is | n | $\sim$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | in | $\cdots$ | $\bigcirc$ |
| （s） | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sim$ | $\sim$ | $\checkmark$ | $\sim$ | $\sim$ | $\sim$ | n | $\cdots$ | $\checkmark$ | $\sim$ | $m$ | $\checkmark$ | $\sim$ | $\checkmark$ |
| is | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sim$ | m | $\sim$ | n | in | $\sim$ | $\sim$ | m | $\checkmark$ | ぃ | $\cdots$ | $\checkmark$ | is | $\checkmark$ |
| $\stackrel{1}{2}$ | 2 | ～ | ～ | $\stackrel{1}{2}$ | $\wedge$ | $\wedge$ | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{1}$ | ～ | 2 | $\wedge$ | $\bigcirc$ | 8 | － | $\underset{\sim}{\infty}$ | ～ | 8 |
| is | in | $\sim$ | n | $\sim$ | － | n | $\sim$ | is | $\sim$ | n | $\checkmark$ | ＋ | in | is | in | n | n |
| is | is | n | is | $\sim$ | is | $\checkmark$ | is | is | n | is | $\checkmark$ | $\checkmark$ | in | is | － | is | $\sim$ |
| $\sim$ | $\sim$ | is | L | is | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sim$ | $\sim$ | is | is | $\checkmark$ | is | is | ＋ | $\sim$ | is |
| in | $\sim$ | $\sim$ | $\sim$ | $\backsim$ | － | $\checkmark$ | $\checkmark$ | ゅ | in | $\sim$ | $\checkmark$ | $\checkmark$ | ぃ | ¢ | － | $\sim$ | n |
| ๓ | 8 | $\bigcirc$ | ¢ | ® | ก | \％ | $\because$ | 8 | ๓ | $\bigcirc$ | is | ¢ | ̇ | \％ | ヘ | $\stackrel{N}{N}$ | i |
| is | $\sim$ | $\cdots$ | $\sim$ | $\checkmark$ | － | $\checkmark$ | $\cdots$ | n | $\sim$ | $\sim$ | － | $\sim$ | is | is | $\sim$ | is | $\checkmark$ |
| in | in | is | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | is | $\sim$ | in | $\llcorner$ | $\checkmark$ | is | in | is | n | is | $\checkmark$ |
| is | n | n | $\checkmark$ | $\checkmark$ | in | is | n | in | is | n | $m$ | is | in | is | in | is | $\checkmark$ |
| in | in | $\omega$ | $\checkmark$ | $\cdots$ | $ぃ$ | $\sim$ | is | ぃ | $\omega$ | ぃ | $\checkmark$ | － | in | $\omega$ | is | is | ぃ |
| n | ぃ | $\sim$ | $\checkmark$ | $\llcorner$ | $\cdots$ | $\llcorner$ | is | in | is | $\sim$ | $\sim$ | $\llcorner$ | $\llcorner$ | $\sim$ | in | $\cdots$ | $\sim$ |
| is | $\checkmark$ | $\sim$ | n | m | $\sim$ | $\checkmark$ | $\checkmark$ | is | is | in | $\checkmark$ | － | is | $\cdots$ | n | n | $\checkmark$ |
| $\sim$ | $\checkmark$ | $\sim$ | $\sim$ | $\cdots$ | － | $\checkmark$ | － | n | is | $\sim$ | $m$ | $\sim$ | ぃ | ＊ | $\sim$ | $\sim$ | $\checkmark$ |
| $\sim$ | $\sim$ | $\sim$ | $\sim$ | $\checkmark$ | $\sim$ | $\checkmark$ | － | in | $\sim$ | $\sim$ | $\checkmark$ | $\sim$ | ぃ | ＊ | $\sim$ | $\sim$ | $\checkmark$ |
| $\cdots$ | $\checkmark$ | m | m | $m$ | ＊ | m | $\checkmark$ | is | is | $\checkmark$ | $m$ | － | ぃ | $\checkmark$ | $\checkmark$ | $\sim$ | $\sim$ |
| ๑ | $\sim$ | m | $\checkmark$ | $\sim$ | － | $m$ | $\checkmark$ | $\checkmark$ | $\sim$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | ぃ | ค | ค | $\cdots$ | $\checkmark$ |
| © | $\checkmark$ | $\sim$ | is | $\cdots$ | m | $\checkmark$ | ¢ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $m$ | $\cdots$ | $\checkmark$ | ¢ | n | n | m |
| is | $\checkmark$ | $\sim$ | ¢ | $\checkmark$ | $\cdots$ | $\checkmark$ | ＊ | $\checkmark$ | － | $\checkmark$ | $m$ | $m$ | is | － | $\checkmark$ | in | $m$ |
| ๑ | $\checkmark$ | $\sim$ | n | $\checkmark$ | $m$ | $\sim$ | $\checkmark$ | $\cdots$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | in | $\checkmark$ | n | $\sim$ | in |
| $\cdots$ | $\cdots$ | － | $\checkmark$ | $\checkmark$ | － | $\sim$ | － | $\sim$ | $\sim$ | $\sim$ | $\checkmark$ | $\cdots$ | is | $\checkmark$ | in | $\sim$ | ＊ |
| n | $\cdots$ | $\sim$ | $\llcorner$ | $\cdots$ | $m$ | － | － | － | $\sim$ | $\sim$ | $\llcorner$ | $\checkmark$ | ぃ | ぃ | ค | $\sim$ | $m$ |
| L6I | 861 | 661 | 002 | toz | z0z | ع0Z | t02 | ¢02 | 902 | LOZ | 802 | 602 | 012 | Itz | てıて | $\varepsilon เ 乙$ | $\pm$ ¢て |



## LAMPIRAN 14a - UJI VALIDITAS AWAL

## Attitude Toward the Actor

## Correlations

|  |  | Aactor <br> 1 | $\begin{gathered} \text { Aactor } \\ 2 \end{gathered}$ | Aactor <br> 3 | $\begin{gathered} \text { Aactor } \\ 4 \end{gathered}$ | Aactor 5 | $\begin{gathered} \text { Aactor } \\ 6 \end{gathered}$ | Aactor 7 | $\begin{gathered} \text { Aactor } \\ 8 \end{gathered}$ | $\begin{gathered} \hline \text { Aactor } \\ 9 \end{gathered}$ | Aactor <br> 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aactor1 | Pearson Correlation | 1 | .749** | .648** | . 820 ** | .638** | .438** | . 230 | . 323 | . 367 * | . 251 |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 | . 008 | . 177 | . 055 | . 028 | . 140 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor2 | Pearson Correlation | . $749 * *$ | 1 | . $572{ }^{* *}$ | . $778{ }^{* *}$ | . $606{ }^{* *}$ | .419* | . 190 | . 364 * | . 556 ** | .415* |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 000 | . 000 | . 011 | . 267 | . 029 | . 000 | . 012 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor3 | Pearson Correlation | . $648^{* *}$ | . $572{ }^{* *}$ | 1 | . $756{ }^{* *}$ | . $728^{* *}$ | . 350 * | . 290 | . $479 * *$ | . 418 * | . 284 |
|  | Sig. (2-tailed) | . 000 | . 000 |  | . 000 | . 000 | . 037 | . 087 | . 003 | . 011 | . 093 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor4 | Pearson Correlation | . 820 ** | . $778{ }^{* *}$ | . $756{ }^{* *}$ | 1 | . $768{ }^{* *}$ | . $490{ }^{* *}$ | . 273 | . 422 * | . 302 | . 211 |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 |  | . 000 | . 002 | . 107 | . 010 | . 074 | . 216 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor5 | Pearson Correlation | .638** | . $606{ }^{* *}$ | . $728^{* *}$ | . $768{ }^{* *}$ | 1 | . $405^{*}$ | . 238 | . 322 | . 466 ** | . $444{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 |  | . 014 | . 162 | . 056 | . 004 | . 007 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor6 | Pearson Correlation |  | .419* | . 350 * | . $490 * *$ | . $405^{*}$ | 1 | .627** | . $464 * *$ | . 256 | .357* |
|  | Sig. (2-tailed) | . 008 | . 011 | . 037 | . 002 | . 014 |  | . 000 | . 004 | . 132 | . 033 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor7 | Pearson Correlation | . 230 | . 190 | . 290 | . 273 | . 238 | . $627^{* *}$ | 1 | . $367{ }^{*}$ | . 215 | . 320 |
|  | Sig. (2-tailed) | . 177 | . 267 | . 087 | . 107 | . 162 | . 000 |  | . 027 | . 208 | . 057 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor8 | Pearson Correlation | . 323 |  | .479** | .422* | . 322 | . $464{ }^{* *}$ | . $367{ }^{*}$ | 1 | . 463 ** | . $444 * *$ |
|  | Sig. (2-tailed) | . 055 | . 029 | . 003 | . 010 | . 056 | . 004 | . 027 |  | . 004 | . 007 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor9 | Pearson Correlation |  |  |  | . 302 | . $466{ }^{* *}$ | . 256 | . 215 | . $463{ }^{* *}$ | 1 | . $895{ }^{* *}$ |
|  | Sig. (2-tailed) | . 028 | . 000 | . 011 | . 074 | . 004 | . 132 | . 208 | . 004 |  | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor10 | Pearson Correlation | . 251 | .415* | . 284 | . 211 | . $444{ }^{* *}$ | . 357 * | . 320 | . $444 * *$ | .895** | 1 |
|  | Sig. (2-tailed) | . 140 | . 012 | . 093 | . 216 | . 007 | . 033 | . 057 | . 007 | . 000 |  |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor11 | Pearson Correlation | . $647^{* *}$ | .695** | . $594 * *$ | . $582{ }^{* *}$ | . $512{ }^{* *}$ | -. 011 | -. 142 | . 163 | . $529 *$ | .404* |


|  | Sig. (2-tailed) <br> N | $\begin{array}{r} .000 \\ 36 \end{array}$ | $\begin{array}{r} .000 \\ 36 \end{array}$ | $\begin{array}{r} .000 \\ 36 \end{array}$ | $\begin{array}{r} .000 \\ 36 \end{array}$ | .001 36 | .950 36 | .408 36 | .341 36 | .001 36 | .015 36 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aactor12 | Pearson Correlation <br> Sig. (2-tailed) N | $\begin{array}{r} .647^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .695^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .594^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .582^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .512^{* *} \\ .001 \\ 36 \end{array}$ | $\begin{array}{r} -.011 \\ .950 \\ 36 \end{array}$ | $\begin{array}{r} -.142 \\ .408 \\ 36 \end{array}$ | $\begin{array}{r} .163 \\ .341 \\ 36 \end{array}$ | $\begin{array}{r} .529^{* *} \\ .001 \\ 36 \end{array}$ | $\begin{array}{r} .404^{*} \\ .015 \\ 36 \end{array}$ |
| Aactor13 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .690^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .661^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .622^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .724^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .689^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .275 \\ .105 \\ 36 \end{array}$ | $\begin{array}{r} .188 \\ .273 \\ 36 \end{array}$ | $\begin{array}{r} .313 \\ .063 \\ 36 \end{array}$ | $\begin{array}{r} .645^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .602^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor14 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .814^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .749^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .648^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .820^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .701^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .508^{* *} \\ .002 \\ 36 \end{array}$ | $\begin{array}{r} .353^{*} \\ .035 \\ 36 \end{array}$ | $\begin{array}{r} .323 \\ .055 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .611^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{gathered} .552^{* *} \\ .000 \\ 36 \end{gathered}$ |
| Aactor15 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .909^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .832^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .742^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .901^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .681^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .466^{* *} \\ .004 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .232 \\ .173 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .279 \\ .099 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .445^{* *} \\ .007 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r}.324 \\ .054 \\ 36 \\ \hline\end{array}$ |
| Total Aactor | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .823^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .818^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .791^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .856^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .804^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .608^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .459^{* *} \\ .005 \\ 36 \end{array}$ | $\begin{array}{r} .540^{* *} \\ .001 \\ 36 \end{array}$ | $\begin{array}{r} .672^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .619^{* *} \\ .000 \\ 36 \end{array}$ |


| Correlations |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Aactor11 | Aactor12 | Aactor13 | Aactor14 | Aactor15 | Total Aactor |
| Aactor1 | Pearson Correlation <br> Sig. (2-tailed) <br> N | $\begin{array}{r} .647^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .647^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .690^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .814^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .909^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .823^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor2 | Pearson Correlation Sig. (2-tailed) <br> N | $\begin{array}{r} \hline .695^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .695^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .661^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .749^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .832^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .818^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor3 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .594^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .594^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .622^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .648^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .742^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .791^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor4 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} \hline .582^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .582^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .724^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .820^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .901^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .856^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor5 | Pearson Correlation Sig. (2-tailed) <br> N | $\begin{array}{r}.512^{* *} \\ .001 \\ 36 \\ \hline\end{array}$ | $\begin{array}{r}.512^{* *} \\ .001 \\ 36 \\ \hline\end{array}$ | $\begin{array}{r}.689^{* *} \\ .000 \\ 36 \\ \hline\end{array}$ | $\begin{array}{r} \hline .701^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .681^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .804^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ |
| Aactor6 | Pearson Correlation <br> Sig. (2-tailed) <br> N | $\begin{array}{r}-.011 \\ .950 \\ 36 \\ \hline\end{array}$ | $\begin{array}{r}-.011 \\ .950 \\ 36 \\ \hline\end{array}$ | $\begin{array}{r}.275 \\ .105 \\ 36 \\ \hline\end{array}$ | $.508^{* *}$ .002 36 | $.466^{* *}$ .004 36 | $\begin{array}{r} \hline .608^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ |
| Aactor7 | Pearson Correlation Sig. (2-tailed) <br> N | $\begin{array}{r} \hline-.142 \\ .408 \\ 36 \end{array}$ | -.142 .408 36 | .188 .273 36 | $.353^{*}$ .035 36 | .232 .173 36 | $\begin{array}{r} \hline .459^{* *} \\ .005 \\ 36 \end{array}$ |
| Aactor8 | Pearson Correlation Sig. (2-tailed) <br> N | $\begin{array}{r} \hline .163 \\ .341 \\ 36 \end{array}$ | $\begin{array}{r} \hline .163 \\ .341 \\ 36 \end{array}$ | $\begin{array}{r} \hline .313 \\ .063 \\ 36 \end{array}$ | $\begin{array}{r} .323 \\ .055 \\ 36 \end{array}$ | $\begin{array}{r} .279 \\ .099 \\ 36 \end{array}$ | $\begin{array}{r} .540^{* *} \\ .001 \\ 36 \end{array}$ |
| Aactor9 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} \hline .529^{* *} \\ .001 \\ 36 \end{array}$ | $\begin{array}{r} \hline .529^{* *} \\ .001 \\ 36 \end{array}$ | $\begin{array}{r} \hline .645^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .611^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} .445^{* *} \\ .007 \\ 36 \end{array}$ | $\begin{array}{r} \hline .672^{* *} \\ .000 \\ 36 \end{array}$ |
| Aactor10 | Pearson Correlation Sig. (2-tailed) | $\begin{gathered} .404^{*} \\ .015 \end{gathered}$ | $\begin{gathered} .404^{*} \\ .015 \end{gathered}$ | $\begin{gathered} .602^{* *} \\ .000 \end{gathered}$ | $.552^{* *}$ .000 | .324 .054 | $.619^{* *}$ .000 |


|  | N | 36 | 36 | 36 | 36 | 36 | 36 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aactor11 | Pearson Correlation | 1 | $1.000^{* *}$ | . $802{ }^{* *}$ | . $647{ }^{* *}$ | . $714{ }^{* *}$ | . 673 ** |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor12 | Pearson Correlation | $1.000^{* *}$ | 1 | . $802{ }^{* *}$ | . $647^{* *}$ | . $714 * *$ | . $673{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 000 | . 000 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor13 | Pearson Correlation Sig. (2-tailed) | $.802^{* *}$$.000$ | $.802^{* *}$ | 1 | . 910 ** | . $774{ }^{* *}$ | . 851 ** |
|  |  |  | $.000$ |  | . 000 | . 000 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor14 | Pearson Correlation Sig. (2-tailed) | $\begin{array}{r} \hline .647^{* *} \\ .000 \end{array}$ | . $647{ }^{* *}$ | . 910 ** | 1 | . $909{ }^{* *}$ | . $920{ }^{* *}$ |
|  |  |  | . 000 | . 000 |  | . 000 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 | 36 |
| Aactor15 | Pearson Correlation Sig. (2-tailed) | $\begin{array}{r} .714^{* *} \\ .000 \end{array}$ | $.714^{* *}$ | . $774{ }^{* *}$ | . $909{ }^{* *}$ | 136 | . 887 ** |
|  |  |  | $.000$ | . 000 | . 000 |  | $\begin{array}{r} .000 \\ 36 \end{array}$ |
|  | N | 36 | 36 | 36 | 36 |  |  |
| Total <br> Aactor | Pearson Correlation Sig. (2-tailed) <br> N | $\begin{array}{r} \hline .673^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} \hline .673^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} \hline .851^{* *} \\ .000 \\ 36 \end{array}$ | $\begin{array}{r} \hline .920^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} \hline .887^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | 136 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**. Correlation is significant at the 0.01 level (2-tailed).
*. Correlation is significant at the 0.05 level (2-tailed).

Attitude Toward the Korean Drama

| Correlations |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AKdrama16 | AKdrama17 | AKdrama18 | AKdrama19 |
| AKdrama16 | Pearson Correlation <br> Sig. (2-tailed) <br> N | 1 $36$ | $\begin{array}{r} .683^{* * *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .657^{* *} \\ .000 \\ 36 \end{array}$ | $.467^{* *}$ <br> . 004 <br> 36 |
| AKdrama17 | Pearson Correlation <br> Sig. (2-tailed) <br> N | $\begin{array}{r} .683^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | 1 36 | $\begin{array}{r} .751^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .535^{* *} \\ .001 \\ 36 \\ \hline \end{array}$ |
| AKdrama18 | Pearson Correlation <br> Sig. (2-tailed) <br> N | $\begin{array}{r} .657^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .751^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | 1 36 | $\begin{array}{r} .751^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ |
| AKdrama19 | Pearson Correlation <br> Sig. (2-tailed) <br> N | $\begin{array}{r} .467^{* *} \\ .004 \\ 36 \end{array}$ | $\begin{array}{r} .535^{* *} \\ .001 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .751^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | 1 <br> 36 |
| Total AKdrama | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .822^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .865^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .930^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ | $\begin{array}{r} .802^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ |
| Correlations |  |  |  |  |  |
|  |  |  |  | Total AKdrama |  |
| AKdrama16 | Pearson Correlation <br> Sig. (2-tailed) <br> N |  |  |  | $\begin{array}{r} \hline .822^{* *} \\ .000 \\ 36 \\ \hline \end{array}$ |
| AKdrama17 | Pearson Correlation Sig. (2-tailed) N |  |  |  | $.865^{* *}$ <br> .000 <br> 36 |
| AKdrama18 | Pearson Correlation Sig. (2-tailed) N |  |  |  | $\begin{array}{r} .930^{* *} \\ .000 \\ 36 \end{array}$ |
| AKdrama19 | Pearson Correlation Sig. (2-tailed) N |  |  |  | $\begin{array}{r} .802^{* *} \\ .000 \\ 36 \end{array}$ |
| Total AKdrama | Pearson Correlation Sig. (2-tailed) N |  |  |  | $\begin{array}{r}1 \\ 36 \\ \hline\end{array}$ |

**. Correlation is significant at the 0.01 level (2-tailed).

## Attitude Toward the Product Placement

Correlations

**. Correlation is significant at the 0.01 level (2-tailed).
*. Correlation is significant at the 0.05 level (2-tailed).

## Attitude Toward the Brand



Attitude Toward the Character

Correlations

|  |  | Achar28 | Achar29 | Achar30 | Achar31 | Total Achar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Achar28 | Pearson Correlation | 1 | . 629 ** | . 430 ** | . $441{ }^{* *}$ | . $786{ }^{* *}$ |
|  | Sig. (2-tailed) |  | . 000 | . 009 | . 007 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 |
| Achar29 | Pearson Correlation | . $629^{* *}$ | 1 | . $636{ }^{* *}$ | .503** | . $793{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 002 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 |
| Achar30 | Pearson Correlation | . 430 ** | . $636{ }^{* *}$ | 1 | .667** | . $793{ }^{* *}$ |
|  | Sig. (2-tailed) | . 009 | . 000 |  | . 000 | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 |
| Achar31 | Pearson Correlation | . $441{ }^{* *}$ | . 503 ** | . $667{ }^{* *}$ | 1 | . $853{ }^{* *}$ |
|  | Sig. (2-tailed) | . 007 | . 002 | . 000 |  | . 000 |
|  | N | 36 | 36 | 36 | 36 | 36 |
| Total Achar | Pearson Correlation | . $786{ }^{* *}$ | . 793 ** | . $793{ }^{* *}$ | . $853{ }^{* *}$ | 1 |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 |  |
|  | N | 36 | 36 | 36 | 36 | 36 |

**. Correlation is significant at the 0.01 level (2-tailed).

Fit Between Actor and the Brand


## LAMPIRAN 14b - UJI REABILITAS AWAL

## Attitude Toward the Actor



## Attitude Toward the Korean Drama

## Scale: ALL VARIABLES



## Attitude Toward the Product Placement

## Scale: ALL VARIABLES

Case Processing Summary

|  |  |  |  |
| :--- | :--- | ---: | ---: |
|  |  | N | $\%$ |
| Cases | Valid | 36 | 100.0 |
|  | Excluded ${ }^{\text {a }}$ | 0 | .0 |
|  | Total | 36 | 100.0 |



## Attitude Toward the Brand

## Scale: ALL VARIABLES


a. Listwise deletion based on all variables in the
procedure.

Reliability Statistics

| Cronbach's Alpha |  |
| ---: | ---: |
| .935 | N of Items |
| 4 |  |

Item-Total Statistics

|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |
| :--- | ---: | ---: | ---: | ---: |
| Ab24 | 12.64 | 3.894 | .859 | .910 |
| Ab25 | 12.92 | 3.736 | .881 | .903 |
| Ab26 | 12.86 | 4.180 | .836 | .919 |
| Ab27 | 12.75 | 4.079 | .812 | .925 |

## Attitude Toward the Character

## Scale: ALL VARIABLES


a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
| ---: | ---: |
| .767 | 4 |

Item-Total Statistics

|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |
| :--- | ---: | ---: | ---: | ---: |
| Achar28 | 14.53 | 1.056 | .557 | .724 |
| Achar29 | 14.33 | 1.371 | .696 | .700 |
| Achar30 | 14.33 | 1.371 | .696 | .700 |
| Achar31 | 14.56 | .825 | .610 | .736 |

Fit Between Actor and the Brand

## Scale: ALL VARIABLES

Case Processing Summary

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| Cases | Valid | 36 | 100.0 |
|  | Excluded ${ }^{\mathrm{a}}$ | 0 | .0 |
|  | Total | 36 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
| ---: | :--- |
| 927 | 3 |

Item-Total Statistics

|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |
| :--- | ---: | ---: | ---: | ---: |
| Factor-b32 | 7.33 | 4.286 | .835 | .910 |
| Factor-b33 | 7.00 | 3.714 | .840 | .906 |
| Factor-b34 | 7.11 | 3.816 | .886 | .865 |



## LAMPIRAN 5a - OLAH DATA UJI VALIDITAS TOTAL DATA

## Attitude Toward the Actor

Correlations

|  |  | V1 | V2 | V3 | V4 | V5 | V6 | V7 | V8 | V9 | V10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V1 | Pearson Correlation | 1 | .658** | . $602{ }^{* *}$ | . 630 ** | . $475 * *$ | . 383 ** | . 344 ** | . $365^{* *}$ | . $399 *$ | . $428{ }^{* *}$ |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 |
| V2 | Pearson Correlation | .658** | 1 | .501** | . 636 ** | . $395 * *$ | . $332 *$ | . 275 ** | . 356 ** | . 389 ** | . $441 * *$ |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 | 213 |
| V3 | Pearson Correlation | . $602 * *$ | .501** | 1 | . $693{ }^{* *}$ | .551** | . $425^{* *}$ | . $329 * *$ | .192** | . $247 * *$ | . $327 * *$ |
|  | Sig. (2-tailed) | . 000 | . 000 | 213 | . 000 | . 000 | . 000 | . 000 | . 005 | . 000 | . 000 |
|  | N | 213 | 213 |  | 213 | 213 | 213 | 213 | 213 | 213 | 213 |
| V4 | Pearson Correlation | .630** | .636** | . 693 ** | 1 | . $445^{* *}$ | . $475{ }^{* *}$ | . $414 *$ | . 333 ** | . 372 ** | .467** |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | 213 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 |  | 213 | 213 | 213 | 213 | 213 | 213 |
| V5 | Pearson Correlation | . $475{ }^{* *}$ | .395** | .551** | . $445^{* *}$ | 1 | . $354 * *$ | . 300 ** | . $277{ }^{* *}$ | . 304 ** | . 360 ** |
|  | Sig. (2-tailed) | . 000 | . 000 | $\begin{array}{r} .000 \\ 213 \end{array}$ | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ | 213 | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .000 \\ 213 \\ \hline \end{array}$ |
|  | N | 213 | 213 |  |  |  |  |  |  |  |  |
| V6 | Pearson Correlation | $\begin{gathered} .383^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .332^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .425^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .475^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{gathered} .354^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} 1 \\ 213 \end{array}$ | $\begin{array}{r} .551^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .381^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .354^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .341^{* *} \\ .000 \\ 213 \end{array}$ |
|  | Sig. (2-tailed) |  |  |  |  |  |  |  |  |  |  |
|  | N |  |  |  |  |  |  |  |  |  |  |
| V7 | Pearson Correlation | $\begin{array}{r} .344^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .275^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .329^{* *} \\ \hline .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .414^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .300^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .551^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $1$$213$ | $\begin{gathered} .356^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .378^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .466^{* *} \\ .000 \\ 213 \end{array}$ |
|  | Sig. (2-tailed) |  |  |  |  |  |  |  |  |  |  |
|  | N |  |  |  |  |  |  |  |  |  |  |
| V8 | Pearson Correlation | $\begin{array}{r} .365^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .356^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .192^{* *} \\ .005 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .333^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .277^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .381^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .356^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $1$$213$ | $\begin{gathered} .659^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .561^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ |
|  | Sig. (2-tailed) |  |  |  |  |  |  |  |  |  |  |
|  | N |  |  |  |  |  |  |  |  |  |  |
| V9 | Pearson Correlation | $\begin{array}{r} .399^{* *} \\ \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .389^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .247^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .372^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .304^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .354^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .378^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .659^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | 213 | $\begin{gathered} .657^{* *} \\ .000 \\ 213 \end{gathered}$ |
|  | Sig. (2-tailed) |  |  |  |  |  |  |  |  |  |  |
|  | N |  |  |  |  |  |  |  |  |  |  |


| V10 | Pearson Correlation Sig. (2-tailed) N | $\begin{gathered} .428^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .441^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .327^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .467^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .360^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .341^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .466^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .561^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{gathered} .657^{* *} \\ .000 \\ 213 \end{gathered}$ | 1 213 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V11 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .325^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .380^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} .217^{* *} \\ .001 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .269^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{gathered} .310^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{aligned} & .129 \\ & .061 \\ & 213 \end{aligned}$ | $\begin{array}{r} .098 \\ .152 \\ 213 \end{array}$ | $\begin{gathered} .439^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .429^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .337^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ |
| V12 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .468^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .491^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .388^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .422^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .310^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .123 \\ .074 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .119 \\ .084 \\ 213 \end{array}$ | $\begin{gathered} .338^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .350^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .389^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ |
| V13 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .357^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .357^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .311^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} .396^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .377^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .223^{* *} \\ .001 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .351^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .381^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .364^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .472^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ |
| V14 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .511^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .480^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .377^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .453^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .398 * * \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .377^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .388^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .385^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .405^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .447^{* *} \\ .000 \\ 213 \end{array}$ |
| V15 | Pearson Correlation Sig. (2-tailed) N | $\begin{array}{r} .543^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .460^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .432^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .449^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .422^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} .402^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} .320^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{gathered} .420^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .453^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .401^{*} \\ .000 \\ 213 \\ \hline \end{array}$ |
| $\begin{array}{\|l} \hline \text { ACT } \\ \text { OR } \end{array}$ | Pearson Correlation Sig. (2-tailed) N | $\begin{gathered} .744^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{array}{r} .699^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .684^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .756^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .658^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .623^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{array}{r} .605^{* *} \\ .000 \\ 213 \\ \hline \end{array}$ | $\begin{gathered} .618^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $\begin{gathered} .651^{* *} \\ .000 \\ 213 \\ \hline \end{gathered}$ | $.697 * *$ <br> .000 <br> 213 |

Correlations

|  |  | V11 | V12 | V13 | V14 | V15 | ACTOR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V1 | Pearson Correlation | . $325^{* *}$ | .468** | . $357{ }^{* *}$ | .511** | . 543 ** | . $744{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |
| V2 | Pearson Correlation | . 380 ** | .491** | . $357{ }^{* *}$ | . 480 ** | . 460 ** | .699** |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |
| V3 | Pearson Correlation | .217** | . 388 ** | .311** | . $377{ }^{* *}$ | . $432{ }^{* *}$ | .684** |
|  | Sig. (2-tailed) | . 001 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |
| V4 | Pearson Correlation | .269** | .422** | .396** | .453** | .449** | .756** |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |
| V5 | Pearson Correlation | . 310 ** | . $310{ }^{* *}$ | . $377{ }^{* *}$ | . $398{ }^{* *}$ | . 422 ** | .658** |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |
| V6 | Pearson Correlation | . 129 | . 123 | . $223{ }^{* *}$ | . $377{ }^{* *}$ | . $402{ }^{* *}$ | .623** |
|  | Sig. (2-tailed) | . 061 | . 074 | . 001 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 | 213 |

$\left.\begin{array}{|ll|r|r|r|r|r|}\text { V7 } & \text { Pearson Correlation } & .098 & .119 & .351^{* *} & .388^{* *} & .320^{* *}\end{array}\right) .605^{* *} \mid$

## Attitude Toward the Korean Drama

Correlations

|  |  | V16 | V17 | V18 | V19 | $\begin{gathered} \text { KDRAM } \\ \text { A } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V16 | Pearson Correlation | 1 | .740** | .746** | .759** | .889** |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V17 | Pearson Correlation | . 740 ** | 1 | . $742{ }^{* *}$ | .756** | .889** |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V18 | Pearson Correlation | . $746{ }^{* *}$ | . $742{ }^{* *}$ | 1 | .833** | . $922{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 |  | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V19 | Pearson Correlation | .759** | . 756 ** | .833** | 1 | . $926{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 |  | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| KDRAM <br> A | Pearson Correlation | .889** | .889** | . $922{ }^{* *}$ | . $926{ }^{* *}$ | 1 |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 |  |
|  | N | 213 | 213 | 213 | 213 | 213 |

Attitude Toward the Product Placement


## Attitude Toward the Brand

## Correlations

|  |  | V24 | V25 | V26 | V27 | BRAND |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V24 | Pearson Correlation | 1 | . $735^{* *}$ | .692** | .651** | . $869{ }^{* *}$ |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V25 | Pearson Correlation | . $735^{* *}$ | 1 | .820** | .633** | . 910 ** |
|  | Sig. (2-tailed) | . 000 |  | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V26 | Pearson Correlation | .692** | .820** | 1 | .688** | . $912{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 |  | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V27 | Pearson Correlation | .651** | .633** | .688** | 1 | . $835{ }^{* *}$ |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 |  | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| BRAND | Pearson Correlation | .869** | . $910{ }^{* *}$ | . $912{ }^{* *}$ | .835** | 1 |
|  | Sig. (2-tailed) | . 000 | . 000 | . 000 | . 000 |  |
|  | N | 213 | 213 | 213 | 213 | 213 |

**. Correlation is significant at the 0.01 level (2-tailed).

## Attitude Toward the Character

Correlations

| Correlations |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | V28 | V29 | V30 | V31 | CHAR |
| V28 | Pearson Correlation | 1 | . $646{ }^{* *}$ | .536** | .478** | .821** |
|  | Sig. (2-tailed) |  | . 000 | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V29 | Pearson Correlation Sig. (2-tailed) | $\begin{array}{r} .646^{* *} \\ .000 \end{array}$ | 1 | . 740 ** | . $522^{* *}$ | . 870 ** |
|  |  |  |  | . 000 | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V30 | Pearson Correlation Sig. (2-tailed) | $\begin{array}{r} .536^{* *} \\ .000 \end{array}$ | .740** | 1 | . $524{ }^{* *}$ | . $820{ }^{* *}$ |
|  |  |  | . 000 |  | . 000 | . 000 |
|  | N | 213 | 213 | 213 | 213 | 213 |
| V31 | Pearson Correlation Sig. (2-tailed) | $\begin{array}{r} \hline .478^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} .522^{* *} \\ .000 \\ 213 \end{array}$ |  | 1 | . $784^{* *}$ |
|  |  |  |  | $\begin{array}{r} .524^{* *} \\ .000 \\ 213 \end{array}$ |  | . 000 |
|  | N |  |  |  | 213 | 213 |
| CHAR | Pearson Correlation Sig. (2-tailed) N | $\begin{gathered} .821^{* *} \\ .000 \\ 213 \end{gathered}$ | $\begin{array}{r} \hline .870^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} \hline .820^{* *} \\ .000 \\ 213 \end{array}$ | $\begin{array}{r} .784^{* *} \\ .000 \\ 213 \end{array}$ | 1213 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**. Correlation is significant at the 0.01 level (2-tailed).

Fit Between Actor and the Brand


## LAMPIRAN 5b - OLAH DATA UJI REABILITAS TOTAL DATA

## Attitude Toward the Actor

## Scale: ALL VARIABLES

Case Processing Summary


|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |
| :--- | ---: | ---: | ---: | ---: |
| V1 | 64.19 | 31.672 | .696 | .895 |
| V2 | 64.15 | 32.285 | .648 | .897 |
| V3 | 64.40 | 31.137 | .612 | .898 |
| V4 | 64.31 | 31.109 | .704 | .894 |
| V5 | 64.68 | 30.362 | .563 | .902 |
| V6 | 64.51 | 31.298 | .534 | .902 |



## Attitude Toward The Korean Drama

## Scale: ALL VARIABLES



## Attitude Toward the Product Placement

## Scale: ALL VARIABLES


a. Listwise deletion based on all variables in the


## Attitude Toward the Brand

## Scale: ALL VARIABLES

| Case Processing Summary |  |  |  |
| :--- | :--- | ---: | ---: |
|  | N | $\%$ |  |
| Cases | Valid | 213 | 100.0 |
|  | Excluded ${ }^{\mathrm{a}}$ | 0 | .0 |
|  | Total | 213 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

| Cronbach's Alpha | N of Items |
| ---: | ---: |
| .905 | 4 |

Item-Total Statistics

| Item-Total Statistics |  |  |  |  |  |  |
| :--- | :---: | :---: | ---: | ---: | :---: | :---: |
|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |  |  |
| V24 | 12.82 | 3.962 | .771 | .883 |  |  |
| V25 | 13.10 | 3.580 | .827 | .862 |  |  |
| V26 | 13.01 | 3.599 | .833 | .860 |  |  |
| V27 | 12.82 | 4.122 | .720 | .900 |  |  |

## Attitude Toward the Character

## Scale: ALL VARIABLES

## Case Processing Summary

|  | Case Processing Summary |  |  |  |
| :--- | :--- | ---: | ---: | :---: |
|  | N | $\%$ |  |  |
| Cases | Valid | 213 | 100.0 |  |
|  | Excluded ${ }^{\mathrm{a}}$ | 0 | .0 |  |
|  | Total | 213 | 100.0 |  |

a. Listwise deletion based on all variables in the procedure.

Item-Total Statistics

|  | Scale Mean if <br> Item Deleted | Scale Variance if <br> Item Deleted | Corrected Item- <br> Total Correlation | Cronbach's Alpha <br> if Item Deleted |
| :--- | ---: | ---: | ---: | ---: |
| V28 | 14.22 | 1.701 | .646 | .798 |
| V29 | 14.06 | 1.746 | .760 | .744 |
| V30 | 13.98 | 2.009 | .711 | .780 |
| V31 | 14.17 | 1.767 | .580 | .830 |

Fit Between Actor and the Brand

## Scale: ALL VARIABLES




## LAMPIRAN 6a - REGRESI SEDERHANA Aactor TERHADAP Ab

| Variables Entered/Removed $^{\text {a }}$ |  |  |  |
| :--- | :--- | :---: | :---: |
| Model | Variables <br> Entered | Variables <br> Removed | Method |
| 1 | ACTOR $^{\text {b }}$ |  | Enter |

a. Dependent Variable: BRAND
b. All requested variables entered.

Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | :---: | ---: | ---: | ---: |
| 1 | $.353^{\mathrm{a}}$ | .125 | .121 | 2.404 |

a. Predictors: (Constant), ACTOR

ANOVA ${ }^{a}$

| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |
| 1 | Regression | 174.086 | 1 | 174.086 | 30.115 | $.000^{\mathrm{b}}$ |
|  | Residual | 1219.726 | 211 | 5.781 |  |  |
|  | Total | 1393.812 | 212 |  |  |  |

a. Dependent Variable: BRAND
b. Predictors: (Constant), ACTOR

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 6.934 | 1.887 |  | 3.675 | . 000 |
|  | ACTOR | . 150 | . 027 | . 353 | 5.488 | . 000 |

a. Dependent Variable: BRAND

## LAMPIRAN 6b - REGRESI SEDERHANA Aactor TERHADAP App

Variables Entered/Removed $^{\text {a }}$

| Model | Variables <br> Entered | Variables <br> Removed | Method |
| :--- | :---: | :---: | :---: |
| 1 | ACTOR $^{\text {b }}$ |  | . |

a. Dependent Variable: PPL
b. All requested variables entered.

## Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | ---: | ---: | ---: | ---: |
| 1 | $.403^{\mathrm{a}}$ | .162 | .158 | 2.470 |

a. Predictors: (Constant), ACTOR

ANOVA ${ }^{\text {a }}$

| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |
| 1 | Regression | 248.895 | 1 | 248.895 | 40.811 | $.000^{\mathrm{b}}$ |
|  | Residual | 1286.833 | 211 | 6.099 |  |  |
|  | Total | 1535.728 | 212 |  |  |  |

a. Dependent Variable: PPL
b. Predictors: (Constant), ACTOR

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 4.896 | 1.938 |  | 2.526 | . 012 |
|  | ACTOR | . 179 | . 028 | 403 | 6.388 | . 000 |

a. Dependent Variable: PPL

## LAMPIRAN 6c - REGRESI SEDERHANA FIT actor-b $^{\text {TERHADAP }}$ Ab $^{\mathbf{b}}$

| Variables Entered/Removed $^{\text {a }}$ |  |  |  |
| :--- | :--- | :--- | :--- |
| Model | Variables Entered | Variables <br> Removed | Method |
| 1 | FIT-A-B $^{\text {b }}$ |  | Enter |

a. Dependent Variable: BRAND

a. Dependent Variable: BRAND
b. Predictors: (Constant), FIT-A-B

Coefficients ${ }^{\mathrm{a}}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> CoefficientsBeta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 13.578 | . 885 |  | 15.348 | . 000 |
|  | FIT-A-B | . 330 | . 078 | . 279 | 4.227 | . 000 |

a. Dependent Variable: BRAND

LAMPIRAN 6d - REGRESI SEDERHANA FIT actor-b $^{\text {TERHADAP App }}$

| Variables Entered/Removed $^{\mathrm{a}}$ |  |  |  |
| :--- | :---: | :---: | :---: |
| Model Variables <br> Entered Variables <br> Removed Method <br> 1 FIT-A-B ${ }^{\text {b }}$  Enter |  |  |  |

a. Dependent Variable: PPL
b. All requested variables entered.

## Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | :---: | ---: | ---: | ---: |
| 1 | $.343^{\mathrm{a}}$ | .117 | .113 | 2.535 |

a. Predictors: (Constant), FIT-A-B

| ANOVA ${ }^{\text {a }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Model | Sum of Squares | df | Mean Square | F | Sig. |
| 1 Regression <br>  Residual <br>  Total | 180.157 1355.571 1535.728 | 1 211 212 | 180.157 6.425 | 28.042 | . $000{ }^{\text {b }}$ |

a. Dependent Variable: PPL
b. Predictors: (Constant), FIT-A-B

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 12.507 | . 909 |  | 13.765 | . 000 |
|  | FIT-A-B | . 425 | . 080 | . 343 | 5.295 | . 000 |

a. Dependent Variable: PPL

## LAMPIRAN 6e - REGRESI SEDERHANA Achar TERHADAP App

| Variables Entered/Removed $^{\text {a }}$ |  |  |  |
| :--- | :--- | :--- | :--- |
| Model | Variables <br> Entered | Variables <br> Removed | Method |
| 1 | CHAR $^{\mathrm{b}}$ |  | . |

a. Dependent Variable: PPL
b. All requested variables entered.

## Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | :---: | ---: | ---: | ---: |
| 1 | $.380^{\text {a }}$ | .145 | .140 | 2.495 |

a. Predictors: (Constant), CHAR

ANOVA ${ }^{a}$

| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | :---: | :---: |
| 1 | Regression | 221.938 | 1 | 221.938 | 35.644 | $.000^{\mathrm{b}}$ |
|  | Residual | 1313.789 | 211 | 6.226 |  |  |
|  | Total | 1535.728 | 212 |  |  |  |

a. Dependent Variable: PPL
b. Predictors: (Constant), CHAR

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 6.191 | 1.857 |  | 3.334 | . 001 |
|  | CHAR | . 587 | . 098 | . 380 | 5.970 | . 000 |

a. Dependent Variable: PPL

## LAMPIRAN $6 f$ - REGRESI SEDERHANA Akdrama TERHADAP App

Variables Entered/Removed ${ }^{\text {a }}$

| Model | Variables <br> Entered | Variables <br> Removed | Method |
| :--- | :---: | :---: | :---: |
| 1 | KDRAMA $^{\text {b }}$ |  | Enter |

a. Dependent Variable: PPL
b. All requested variables entered.

## Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | ---: | ---: | ---: | ---: |
| 1 | $.432^{\mathrm{a}}$ | .187 | .183 | 2.433 |

a. Predictors: (Constant), KDRAMA

ANOVA ${ }^{\text {a }}$

| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| 1 | Regression | 287.075 | 1 | 287.075 | 48.511 | $.000^{\mathrm{b}}$ |
|  | Residual | 1248.652 | 211 | 5.918 |  |  |
|  | Total | 1535.728 | 212 |  |  |  |

a. Dependent Variable: PPL
b. Predictors: (Constant), KDRAMA

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 6.181 | 1.595 |  | 3.875 | . 000 |
|  | KDRAMA | . 587 | . 084 | . 432 | 6.965 | . 000 |

a. Dependent Variable: PPL

## LAMPIRAN 6g - REGRESI SEDERHANA App TERHADAP Ab

Variables Entered/Removed ${ }^{\text {a }}$

| Model | Variables <br> Entered | Variables <br> Removed | Method |
| :--- | :--- | :--- | :--- |
| 1 | PPL $^{\text {b }}$ |  | Enter |

a. Dependent Variable: BRAND
b. All requested variables entered.

## Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of <br> the Estimate |
| :--- | ---: | ---: | ---: | ---: |
| 1 | $.741^{\mathrm{a}}$ | .549 | .547 | 1.726 |

a. Predictors: (Constant), PPL

ANOVA ${ }^{a}$

| Model |  | Sum of <br> Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| 1 | Regression | 764.874 | 1 | 764.874 | 256.605 | $.000^{\mathrm{b}}$ |
|  | Residual | 628.938 | 211 | 2.981 |  |  |
|  | Total | 1393.812 | 212 |  |  |  |

a. Dependent Variable: BRAND
b. Predictors: (Constant), PPL

Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 5.089 | . 768 |  | 6.624 | . 000 |
|  | PPL | . 706 | . 044 | . 741 | 16.019 | . 000 |

a. Dependent Variable: BRAND

## LAMPIRAN 6h - REGRESI BERGANDA Aactor DAN App TERHADAP Ab


a. Dependent Variable: BRAND
b. All requested variables entered.

Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of the <br> Estimate |
| :--- | :---: | ---: | ---: | ---: |
| 1 | $.743^{\mathrm{a}}$ | .552 | .548 | 1.724 |

a. Predictors: (Constant), PPL, ACTOR

| ANOVA $^{\text {a }}$ |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | :---: |
| Model |  | Sum of Squares | df | Mean Square | F | Sig. |
| 1 | Regression | 769.940 | 2 | 384.970 | 129.584 | $.000^{\text {b }}$ |
|  | Residual | 623.872 | 210 | 2.971 |  |  |
|  | Total | 1393.812 | 212 |  |  |  |

a. Dependent Variable: BRAND
b. Predictors: (Constant), PPL, ACTOR

## Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 3.602 | 1.373 |  | 2.624 | . 009 |
|  | ACTOR | . 028 | . 021 | . 066 | 1.306 | . 193 |
|  | PPL | . 680 | . 048 | . 714 | 14.162 | . 000 |

a. Dependent Variable: BRAND

## LAMPIRAN $6 \mathbf{i}$ - REGRESI BERGANDA FIT actor-b DAN A App $^{\text {TERHADAP }}$ A $_{b}$

| Variables Entered/Removed $^{\text {a }}$ |  |  |  |
| :--- | :--- | :--- | :--- |
| Model | Variables Entered | Variables <br> Removed | Method |
| 1 | PPL, FIT-A-B ${ }^{\text {b }}$ |  | Enter |

a. Dependent Variable: BRAND
b. All requested variables entered.

Model Summary

| Model | R | R Square | Adjusted R <br> Square | Std. Error of the <br> Estimate |
| :--- | :---: | ---: | ---: | ---: |
| 1 | $.741^{\mathrm{a}}$ | .550 | .545 | 1.729 |

a. Predictors: (Constant), PPL, FIT-A-B


ANOVA ${ }^{a}$

| Model |  | Sum of Squares | df | Mean Square | F | Sig. |
| :--- | :--- | ---: | ---: | ---: | ---: | :---: |
| 1 | Regression | 765.915 | 2 | 382.957 | 128.080 | $.000^{\mathrm{b}}$ |
|  | Residual | 627.897 | 210 | 2.990 |  |  |
|  | Total | 1393.812 | 212 |  |  |  |

a. Dependent Variable: BRAND
b. Predictors: (Constant), PPL, FIT-A-B

## Coefficients ${ }^{\text {a }}$

| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | B | Std. Error |  |  |  |
| 1 | (Constant) | 4.871 | . 854 |  | 5.703 | . 000 |
|  | FIT-A-B | . 034 | . 058 | . 029 | . 590 | . 556 |
|  | PPL | . 696 | . 047 | . 731 | 14.825 | . 000 |

a. Dependent Variable: BRAND



Iklan diletakkan secara mencolok di setiap awal episode dengan Gong Yoo sebagai ambassador-nya (Gambar 5 dan Gambar 6).


The Body Shop - Parfum White Musk
Merek diperlihatkan dengan jelas selama satu bagian segmen cerita. Karakter dalam cerita bahkan menyelipkan kata-kata persuasif mengenai produk tersebut selama cerita berjalan.

(Sumber: : adegan drama Goblin)
(9)

(Sumber: : adegan drama Goblin)
(11)
(Sumber: : adegan drama Goblin)
(10)

(Sumber: : adegan drama Goblin)
(12)

## Baskin Robbins (Gambar 9) dan Subway (Gambar 10-Gambar 12)

Kedua merek eskrim dan makanan cepat saji yang terkenal ini beberapa kali ditampilkan sebagai latar tempat cerita (Gambar 9 dan Gambar 10). Merek ditampilkan dengan sangat jelas dan bahkan ditunjukkan benar-benar dimakan oleh karakter di dalamnya (Gambar 12).


# Modeling attitude constructs in movie product placements 

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#### Abstract

Purpose - The purpose of this paper is to propose and test a conceptual framework of attitudinal constructs that influence attitude toward the brand in movie product placements. Advertising literature is replete with studies on factors that influence attitude toward the brand ( $\mathrm{A}_{\mathrm{b}}$ ). However, this topic remains under-explored for product placements. Design/methodology/approach - Our framework showcases several theories to relate attitude and fit constructs to attitudes toward the product placement and attitude toward the brand. We use the structural equation model approach to estimate the conceptual framework. Findings - Several attitudinal movie constructs (attitude toward the actor, the character and the movie) influence attitude toward the product placement, which in turn mediates the relationship between the former attitudinal constructs and attitude toward the brand. Interestingly, only the fit between the actor and placed brand impacted attitude toward the product placement, with no effects found for the fit between the character and the fit between the movie and brand and the attitude toward the product placement. Research limitations/implications - We focus on explicit attitudes; implicit attitudes need future research attention. Practical implications - Findings affirm a key role for the actor featured in the placement in directly or indirectly shaping the attitude toward the brand. Originality/value - This is the first study to apply the structural equation modeling approach to this research area.


Keywords Attachment theory, Advertising, Brand evaluation, Identification theory, Meaning transfer model, Product placement, SEM (structural equation modeling), Social learning theory

Paper type Research paper

## Introduction

Product placement is a hugely popular practice. PQ Media (2012) estimates the amount spent on product placements at $\$ 8.25$ billion in 2012 , up from $\$ 6.25$ billion spent in 2009; 64 per cent of which was spent in the USA alone. Worldwide, spending is forecast to nearly double by 2016, making placements a "strategic must-have" in the overall communications mix (PQ Media, 2012). According to research conducted by AC Nielsen, over 200,000 brand occurrences on cable and broadcast networks were reported in the first six months of 2008 (Saini, 2008).

Not surprisingly, product placements have generated a strong and steady research stream that has become quite prolific over the past few years (Taylor, 2009). Studies have

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reviewed past findings (van Reijmersdal, Neijens and Smit, 2009; Romaniuk, 2009); investigated effects on brand attitudes and recall (van Reijmersdal, 2009; De Gregorio and Sung, 2010; Dens et al., 2012; Gillespie et al., 2012; Peters and Leshner, 2013); in cross-cultural settings (Lee et al., 2011; Hackley and Hackley, 2012; Nelson and Deshpande, 2013); in various media (Brennan, 2008; Delattre and Colovic, 2009; van Reijmersdal, 2011; Pinzaru et al., 2013; Noguti and Russell, 2014; Hui-Fei, 2014); investigated effects on stock prices (Wiles and Danielova, 2009) and financial returns over time (Karnouchina et al., 2011); explored acceptability for ethically charged products (Eisend, 2009); and effects on children (Hang, 2012). Despite this impressive research stream, much remains to be explored in terms of understanding the process by which placements shape audience evaluations and attitudes towards featured brands.

There are several reasons why insights about this process are somewhat limited, and why that needs to improve (they also motivate this study and its procedures). First, as

[^0]Balasubramanian et al. (2006) note in their review article, mixed results characterize studies that examined the effect of placements on brand attitude. For instance, many studies have reported positive (Dens et al., 2012; Kamleitner and Jyote, 2013) and negative (Homer, 2009; Cowley and Barron, 2008) effects on attitudes, suggesting the presence of other variables affecting the results. Execution/stimulus factors like prominence (Van Reijmersdal, 2009), plot connection (Russell, 2002), audio/visual modality (Wilson and Till, 2011) and repetition (Homer, 2009) are known to influence recall, attitudes and intentions.

Second, studying this effect in laboratory/field settings entails significant challenges. For example, Bressoud et al. (2010) found that size of the motion picture screen affected recall of placements, suggesting that movies seen on large screens (as in a theatre) may generate recall more effectively. Clearly, any recall assessment is possible only after subjects are exposed to the placement. Additionally, the measurement of (explicit) attitude toward a placed brand is meaningful only for those who can accurately recall the placement and its characteristics after exposure. Furthermore, evidence (Mackay et al., 2009) indicates that only a small fraction of the subjects exposed to a placement are able to recall the brand placed.

Finally, researchers (Balasubramanian et al., 2006) have identified a large number of variables that potentially influence placement effectiveness, several of which may also influence brand attitude. They categorize these variables as stimulus/ execution related (prominence, repetition, placement modality, etc.) and individual difference related (attitudes to the practice, the specific placement segments, the vehicle carrying the placement, i.e. movie, TV show, etc., perceptions of fit of the product with the actor and character played by the actor).
It is difficult to study all these variables in one study. Given resource/space constraints, we developed a parsimonious model that embedded eight attitudinal/perceptional constructs as antecedents of attitude to the brand. Our study contributes by providing insights into the attitude formation process while identifying relationships between constructs that are relatively more/less important than others (and hence need more close attention while planning a placement).

## Theoretical frameworks and hypotheses

## Defining product placement

Product placement has been defined as the paid inclusion of branded products or brand identifiers through audio and/or visual means within mass media programs (Karrh, 1998), and it is also a prominent example of a hybrid message (Balasubramanian, 1994) by which a marketer aims to influence consumers through a paid message that does not identify the sponsor. In conducting this research, we adopt the definition of product placement provided by Balasubramanian (1994 p. 31): "a paid product message aimed at influencing movie (or television) audiences via the planned and unobtrusive entry of a branded product into a movie (or television program)".
As a hybrid message, product placement mirror other forms of promotions, such as advertisements (Balasubramanian, 1994). As a communication option that aims to influence
consumers, product placements may be assessed in terms of processes and constructs similar to those used in the advertising domain (see Table I). At a basic level, product placements represent a form of marketing communication, as are advertisements. In particular, movie placements share characteristics of audio-visual advertisements. Most product placements carry entertainment value, but advertisements can also be entertaining. However, there is a key difference in message exposure format between advertisements and product placements. Unlike advertisements, the boundary between commercial content and program content is not sharply demarcated for product placements. This difference also showcases the intrinsic marketing appeal of placements: it enables them to unobtrusively reach captive audiences that are more interested in the content they are exposed to than, say, audiences exposed to similar content via advertisements. As the entry of the branded product or the product appearance in the movie (Balasubramanian, 1994) occurs through the movie segment or scene, it is appropriate to consider the product placement as the appearance of the brand in the specific movie segment or scene.

Placements benefit from identification, attachment, social learning and meaning transfer
In a review article, Balasubramanian et al. (2006) describe several theories that help audiences to relate to the actors, characters and brands featured in placements. Taken together, these theories convey the immense potential of product placements to shape, refine and transform the consumer experience with placed brands.

Empathetic and emotional identification processes represent common themes that underlie product placements. Drawing on existential phenomenology, Hackley and Tiwsakul (2006) asserted that brand exposure in an entertainment marketing setting allows dramatic portrayals of characters and lifestyles that help consumers to develop their own self-concept and identity. Product placements may present opportunities for audiences to identify with actors (and their character portrayals) in settings that depict brand consumption or endorsement. Viewers may identify with such portrayals, while also absorbing information about the featured brand. Following an extensive review of identification theories, Klimmt et al. (2009, p. 351) describe the monadic identification that characterizes video game contexts as a "temporal shift of players' self-perception through adoption of valued properties of the game character". Other researchers

Table I Attitudinal construct analogs in advertising and product placement domains

| Advertising | Product placement |
| :--- | :--- |
| Attitude toward the brand $\left(A_{b}\right)$ | Attitude toward the brand $\left(A_{b}\right)$ |
| Attitude toward the advertisement | Attitude toward the product |
| $\left(A_{\text {ad }}\right)$ | placement $\left(A_{\text {pp }}\right)$ |
| Attitude toward the advertising | Attitude toward specific movie |
| vehicle $\left(A_{\text {ad-vehicle }}\right)$ | or TV program $\left(A_{\text {movie }}\right.$ or |
|  | $\left.A_{\text {program }}\right)$ |
| Attitude toward spokesperson/ | Attitude toward the actor <br> endorser $\left(A_{\text {sp }}\right)$ |
|  | $\left(A_{\text {actor }}\right)$, attitude toward the <br> character $\left(A_{\text {char }}\right)$ |

(Gould and Gupta, 2006; Russell, 1998; DeLorme and Reid 1999) have underscored the importance of consumers' empathetic identification with the characters and/or brands featured in product placements.

Brand identification and brand engagement are related to concepts such as attachment, imitative behavior and vicarious experience. Marketing scholars (Belk, 1988; Fournier, 1998; Malar et al., 2011) assert that consumers can cultivate and maintain strong emotional relationships or attachments with brands. According to Thomson (2006), such strong attachments may include "human brands" (i.e. celebrity movie actors and the characters they role-play). As Thomson notes, this premise is strongly supported by attachment theory (which posits that individuals develop attachments toward others because of an innate desire for acceptance) and well-researched concepts such as idolatry, fandom and celebrity worship.

On the other hand, social learning theory (Bandura, 1977) suggests that brand identification behaviors modeled by actors and/or characters in movie placements may encourage imitative responses from audiences exposed to such placements. More fundamentally, product placements may transform a viewer's personal brand consumption experience to a level that matches the enjoyment he/she derives vicariously from a placement depicting the consumption of the same product by a celebrity actor (Russell, 1998). Vice versa, Russell asserts that when real brands (that viewers already identify with) appear within a movie, the authenticity of the viewer experience is enhanced. Moreover, the depiction of such brands in desirable/aspirational settings (that typically characterize movie placements) allows viewers to continue to experience the excitement of these settings in their daily life when they re-engage with these brands as part of normal consumption activities.
In a related vein, McCracken (1989) offers a cogent view of how meanings are transferred from a culturally constituted world to the consumer after exposure to a celebrity endorser advertisement. Advertising and the fashion system facilitate this transfer. According to McCracken, the process begins when an advertiser identifies the cultural meanings intended for the product, i.e. what they should convey to the intended audience. The advertiser then searches for objects, contexts, words and persons in the cultural domain that already carry such meaning. For example, a celebrity endorser may enable advertisers to give concrete form to the selected cultural meanings of a product by the simple process of association - or sharing of space - with a product in an advertisement. This association is carefully planned such that the meaning transfer from celebrity to product is simple, natural and compelling. The next phase of meaning transfer flows from the product to consumers who take possession of these desirable meanings by purchasing the product. Essentially, they perceive the context in which the product is shown in the advertisement and internalize a slice of that life (McCracken, 1989).

Product placements also rely on this meaning transfer process, but likely produce richer and more powerful outcomes than advertisements. First, editorial content is more sought after than advertisement content. Therefore, the target audiences for placements are more attentive than those for advertisements. Second, actors in movie or TV placements -
celebrities in their own right - impart meanings to the placed brand through simple associations (as part of the story script) or even by mere presence within a shared space (product proximity). The goal of movie placements is to unobtrusively expose captive audiences to associations that link desirable attributes of the celebrity actor/character persona to the placed brand through creative execution. The greater the audience acceptance of these linkages, the stronger the positive impact on beliefs about, and affective feelings toward, the placed brand (Fishbein and Ajzen, 1975). Moreover, attitude toward the placed brand reflects the beliefs and affect engendered by a product placement. Therefore, McCracken's (1989) meaning transfer theory is especially relevant to model inter-related attitudinal constructs that influence attitude toward a placed brand. Finally, researchers (Gupta and Gould, 2007; Raney et al., 2003) assert that product placements are less likely to generate reactance than advertisements. The persuasive intent of advertisements is usually more readily apparent than for placements. As a result, audiences may be more predisposed to counter-argue or resist advertisements when compared to placements.

## Conceptual model, constructs, related theory and hypotheses

The conceptual model in Figure 1 integrates elements from the theories described earlier to characterize the network of inter-relationships among factors that influence viewers' attitude toward the brand. More specifically, it proposes that a viewer's attitude toward the brand is influenced by four attitudinal constructs (attitudes toward the actor, character, movie and the product placement) and three "fit" constructs that respectively capture the degree of congruence between the placed brand and the actor, the character and the movie.
It is useful to motivate why and how the above constructs were included in our model. Generally, a product sponsor is unlikely to value two comparable placements in two different movies equally. This is because movies may differ on characteristics such as actor-specific variables (the specific actor/actress involved in the placement), character-specific variables, movie-specific variables and placement-specific variables. Given the large number of such characteristics, it is both prudent and practical to focus on a composite evaluation of the role of movie-specific, actor-specific, character-specific and placement-specific variables - a task we address using the corresponding attitude construct for each of these variable categories.

With respect to the model structure, the actor factor is depicted as the foremost antecedent because it informs or influences all other model variables. This is especially true for movies, when compared to say, sitcoms. That is, viewers encounter the same sitcom actor/character across episodes, but may be exposed to the same actor in different character roles across movies. Viewers' identification with the characters may increase over time in both movie and sitcom settings. However, to the extent that viewers accept the actor as the primary model for product consumption decisions, the actor rather than the character may emerge as a stable and enduring source of influence on brand attitudes. Finally, we added the "fit" constructs that capture the appropriateness of using a specific actor, character and movie to place a brand.

Figure 1 Proposed conceptual model, directional hypotheses on inter-relationships between model constructs


Each model construct is discussed next, followed by a description of theoretical relationships between constructs linked together in our model and related hypotheses expressed in terms of the direction and sign corresponding to each model path.
Attitudinal constructs used in the advertising context are especially appropriate for building a model of how product placements work in the meaning transfer context. Germane attitudinal constructs used in advertising research (and corresponding constructs in the product placement domain) are depicted in Table I.

Attitude toward the actor ( $A_{\text {actor }}$ )
It is common for celebrity actors to endorse brands in advertisements. Similarly, movie actors may be perceived to endorse brands in brand placements. Therefore, $\mathrm{A}_{\text {actor }}$ is conceptually similar in placement contexts to attitude toward the spokesperson in advertisement contexts. It captures perceptions of liking and credibility associated with the featured spokesperson (Dimofte et al., 2003).

Attitude toward the character ( $A_{\text {chan }}$ )
Russell and Stern (2006) use parasocial theory to characterize the attitude and attachment that viewers develop toward sitcom characters. $\mathrm{A}_{\text {char }}$ is somewhat similar to what Russell and Stern characterize as consumers' attitude/attachment toward the character, although these authors indicate that attitude and attachment are different constructs.

Attitude toward the product placement ( $A_{p p}$ )
When focusing on a specific brand message in the advertising and placement domains, respectively, attitude toward the advertisement $\left(\mathrm{A}_{\mathrm{ad}}\right)$ corresponds to attitude toward the product placement ( $\mathrm{A}_{\mathrm{pp}}$ ) that captures evaluations of the movie segment that embeds the placed brand. Notably, Gould et al. (2000) consider $A_{a d}$ and $A_{p p}$ as conceptually similar
constructs. As previously discussed, product placements lacks the boundary segment provided by advertisements. Thus, it is appropriate to limit the current research focus to the movie segment or scene that embeds the placed brand to measure $\mathrm{A}_{\mathrm{pp}}$.

Attitude toward the movie ( $A_{\text {movid }}$ )
This construct captures the idiosyncratic attitudes that viewers have toward a specific movie. Movies are complex experiential products that bundle the talents and reputations of multiple agents (e.g. actor, director, producer and movie studio). If a movie actor, director or script-writer is considered a brand (Levin and Levin, 1997; Wayne, 1999), it is reasonable to also characterize a movie as a distinct brand. This justifies the concept of movie sequels (Sood and Dreze, 2006) and carries practical relevance because sponsors recognize differences in economic payoff from embedding the same placement message in different movies.
$\mathrm{A}_{\text {movie }}$ is distinct from $\mathrm{A}_{\mathrm{pp}}$ in that the latter is limited to a movie segment that features the placed brand. In contrast, $\mathrm{A}_{\text {movie }}$ captures evaluations of the entire movie that comprises a richer, longer and more holistic viewing experience. Additionally, a movie represents editorial content while a product placement may present commercial content as editorial content.

Attitude toward the brand $\left(\mathrm{A}_{\mathrm{b}}\right)$ is an evaluative outcome that captures an individual's attitudinal predisposition toward a brand. This construct's importance is underscored by several studies that consider $\mathrm{A}_{\mathrm{b}}$ as a precursor to purchase intention or behavior.

[^1]Brennan et al. (1999) characterize background props as "creative" placements and the rest as "on-set" placements. Meaning transfer is achieved when the product shares the same space with the endorser, even if there is no endorsement (McCracken, 1989). In placement contexts, movie actors may already be perceived as celebrity endorsers (Ohanian, 1990), so endorsement may be implicitly inferred even if there is no explicit endorsement. More generally, McCracken's meaning transfer thesis supports the causal flow of positive affect from the celebrity endorser (movie actor) to the advertisement (placement), and then onward to the brand.

A celebrity's physical attractiveness may influence brand recall, attitudes and purchase intentions (Kahle and Homer, 1985). Additionally, empathy and identification with actors/ characters provide a strong foundation for celebrity influence. While it is well-known that celebrities positively influence viewers' brand attitudes in advertisement contexts (Kaikati, 1987), such influence is likely stronger for product placements. Therefore, when a brand shares the same space with an actor in a placement setting, viewers' attitudes toward the actor should influence their attitudes toward both the brand and the movie's product placement segment. Moreover, in advertisement contexts, there is evidence that viewers' attitudes toward the advertisement influence brand attitudes (Brown and Stayman, 1992). Similarly, viewers' attitudes to a placement segment within a movie should influence their brand attitudes. Based on the above, we propose that:

H1. Attitude toward the actor has a positive influence on attitude toward the brand.

H2. Attitude toward the actor has a positive influence on attitude toward the product placement.

H3. Attitude toward the product placement has a positive influence on attitude toward the brand.

Fit between the actor and the placed brand, fit between the character and the placed brand and fit between the movie and the placed brand
Russell and Stern (2006) draw on genre theory to describe relationships between characters and products featured in sitcom settings. The three "fit" constructs are conceptually similar to this relationship within a movie placement context. Movie viewers may be predisposed to develop a primary attachment with the movie actor (i.e. the celebrity) and a secondary attachment with the character role played by that actor.

Relationships among fit between the actor and placed brand, attitude toward the product placement and attitude toward the brand
The literature on spokesperson/product congruence (Kahle and Homer, 1985; Kamins, 1990; Tom et al., 1992) indicates that the endorsement of an attractiveness-related product by a physically attractive celebrity enhances credibility and attitude toward the advertisement when compared to an endorsement from a physically unattractive celebrity. In contrast, for attractiveness-unrelated products, physical attractiveness of the celebrity does not influence attitude to the advertisement. These findings show that viewers consider the fit between the product and the endorser (Kamins, 1990). Additionally, if the
brand matches the endorser's image, the brand's appeal increases. Kamins and Gupta (1994) report that increased product/celebrity congruence triggers higher believability and a more favorable brand attitude. A lack of such congruence may diminish brand attitudes (Walker et al., 1992). Finally, the fit notion also extends to congruence between the product and the placement vehicle (Freeman, 2000).

In sum, we posit a positive relationship between viewers' perceptions of actor-brand fit and their attitudes toward both the placement and the brand:

H4. The perceived fit of the actor with the placement has a positive influence on attitude toward the brand.

H5. The perceived fit of the actor with the placement has a positive influence on attitude toward the product placement.

Relationship among attitude toward the actor, attitude toward the character, attitude toward the movie and attitude toward the product placement
For viewers exposed to a movie product placement, the direct model paths in Figure 1 from $\mathrm{A}_{\text {actor }}$ to $\mathrm{A}_{\mathrm{pp}}(H 2)$ and $\mathrm{A}_{\text {actor }}$ to $\mathrm{A}_{\mathrm{b}}$ (H1) reflect prior/external perceptions of the actor that shape attitudes toward the product placement and the placed brand. In contrast, $\mathrm{A}_{\text {char }}$ and $\mathrm{A}_{\text {movie }}$ modify or frame the attitudinal relationships between the actor, the placement and the brand within the context of the movie that embeds the placement. Consistent with the meaning transfer thesis, attachment theory implies that movie placements facilitate affect transfer from "human brands" such as the actor and/or character, or an entertainment brand such as a movie, to the placed brand. Because placements present products in a positive light, social learning theory suggests that actors or characters model desirable consumption behaviors that audiences can learn and emulate. In our model, this process is posited via positive relationships between $\mathrm{A}_{\text {actor }}$ and $\mathrm{A}_{\text {char }}$, $A_{\text {char }}$ and $A_{\text {movie }}$ and $A_{\text {char }}$ and $A_{p p}$. Because a character is ultimately portrayed by an actor, $\mathrm{A}_{\text {char }}$ is primarily influenced by $\mathrm{A}_{\text {actor }}$. Furthermore, $\mathrm{A}_{\text {char }}$ is closely related to the product placement context, and consistent with the meaning transfer model, it is likely to influence both $\mathrm{A}_{\text {movie }}$ and $\mathrm{A}_{\mathrm{pp}}$. We therefore propose that:

H6. Attitude toward the actor has a positive influence on attitude toward the character.

H7. Attitude toward the character has a positive influence on attitude toward the movie.

H8. Attitude toward the character has a positive influence on attitude toward the product placement.

Our model focuses on content within a particular media vehicle rather than within a specific type of media. Our research interest does not center on global attitudes toward movies in general, but on attitudes toward a specific movie that embeds the placement. Although global attitudes toward movies may influence viewers' attitudes toward a particular movie (see D'Astous and Seguin 1999), they are not incorporated in our model. Hirschman and Thompson (1997) assert that media and advertising share a symbiotic
relationship that may enhance advertisement effectiveness by showcasing products in a particular consumption context. These authors assert that the meaning transfer process in advertisements moves from a consumption context (that embeds the endorser) to the brand and the viewer. Similarly, movies often showcase brands in consumption contexts that involve a celebrity actor. The degree of identification/ attachment toward a celebrity actor is likely to inform perceptions of the movie that features that actor. Extending this reasoning, we suggest that viewers' evaluations of the actor will influence their attitudes toward the movie, which in turn influences attitude toward the product placement:

H9. Attitude toward the actor has a positive influence on attitude toward the movie.

H10. Attitude toward the movie has a positive influence on attitude toward the product placement.

Although $H 4$ and $H 5$ highlight the "fit" between the actor and the brand, it is useful to investigate the relative influence of two other "fit" constructs: the "fit" between the character and the brand, and the "fit" between the movie and the brand.
If viewers develop primary and secondary attachments toward the actor and character, respectively, it is more appropriate to anchor the "fit" construct to the former. Stated differently, the fit between the actor and the placed brand appears more instrumental to the meaning transfer process than the other two fit constructs. No research on this topic exists to develop a formal hypothesis, so we frame this as a research question:
$R Q$. Which "fit" construct has a greater role in shaping $\mathrm{A}_{\mathrm{pp}}$ : fit between actor and brand, fit between character and brand or fit between movie and brand?

## Method

## Sample

We recruited a convenient sample of undergraduate students at a large university, who were invited to participate in an online survey in exchange for course credit. Research indicates that college students are an appropriate sample to study product placements (Gupta et al., 2000; Muzellec et al., 2013). Babin and Carder (1996) note that the predominant movie-watching group ranges between 18 to 34 years, with most having a college education. Movie-watching is a common activity for undergraduate students, making them an attractive audience for both movie-makers and placement sponsors (Nebenzahl and Secunda, 1993).

## Procedure

The survey instrument defined product placements as "the practice of placing brand name products in a movie or TV program" and provided descriptive examples of recent placements. Initial screening questions for the survey excluded those below 18 years of age, who had not seen a movie within the past four days and who could not recall a product placement in that recently watched movie. A total of 615 respondents satisfied these screening criteria.
Participants responded to questions about the last movie watched within the previous four days. Specifically, they were
asked to recall four items: the name of this movie, the name of a placed brand in that movie, the product category of this placement and the name the actor/actress in that placement. Our focus on the placed brand is consistent with a previous research indicating that brand awareness represents the primary objective of product placements for practitioners (Karrh et al., 2003). In addition, respondents answered questions on demographics and the measurement scales for each of our model constructs (Appendix).

For respondents who listed multiple movies and/or multiple product placements in their survey, we only considered the first placement recalled. More important, we excluded respondents whose recall about the movie placement did not satisfy subsequent accuracy checks. To authenticate the recalled information reported, we conducted an elaborate verification process using multiple sources (yahoo.movies. com, imdb.com, brandhype.org, www.script-o-rama.com, sfy. ru, www.entertainmentavenue.com, www.brandchannel.com, brandspotters.com, www.davegreten.com, www.imcdb.org, www.commonsensemedia.org/movie-reviews, wearemoviegeeks. com, carsplusmovies.com and www.dvdbeaver.com). If one or more of four items recalled was not verified, that survey was excluded. After accounting for inaccurate or unverifiable information ( 281 respondents provided unacceptable brand and/or product category recall, 243 provided unacceptable actor name recall and 385 failed to correctly identify brandactor association in the placement), the final usable sample contained 230 respondents. The usable sample represents 37.3 per cent of those who satisfied our initial screening criteria, a proportion that is comparable to the 25-30 per cent brand recall (immediately after exposure to a game placement setting) reported in Mackay et al. (2009). Mackay et al. (2009, p. 425) note that brand recall declined to 10-15 per cent in a retest after five months, and assert that "recall of brand placements may not be long term", implying that recall data should be collected soon after exposure. This supports our decision to restrict focus to respondents who had seen a movie within the previous four days.

## Measures

Where possible, our measurement items were extracted from published research. The Appendix provides information for each model construct, corresponding indicator items, response options and item sources. Reliabilities (Cronbach's alpha) for all model constructs were acceptably high, ranging between 0.79 and 0.95 .

## Analyses and results

We conducted two types of analyses. First, we conducted five mediation and moderated-mediation analyses of appropriate subsets of our conceptual model (Figure 1). Our analyses draw on the related literature (Hayes, 2013; MacKinnon, 2008; Jose, 2013; Edwards and Lambert, 2007; Preacher et al., 2007). Second, we analyzed the model in Figure 1 using the structural equation modeling (SEM) approach.

## Mediation analyses

In a mediated relationship, an independent variable X has a direct effect on dependent variable Y , and an indirect (mediation) effect on Y through mediator M . We relied on the bootstrapping approach (with 5,000 random samples with replacement) to empirically produce the sampling distribution of the indirect effect, which was then used to construct the 95 per cent bias-corrected confidence intervals (lower level and upper level confidence intervals). If this bias-corrected confidence interval does not include the zero value, we can infer with 95 per cent confidence that the indirect effect in question is empirically supported (Hayes, 2013).
Results for five mediation analyses are summarized in Table II. Each of these analyses is called a mediation system to signify its local or stand-alone character. That is, a limitation of these analyses is that we only focus on a set of three variables ( $\mathrm{X}, \mathrm{Y}$ and M ) at a given time, so the results may not generalize to the entire model network shown in Figure 1.
With this limitation in mind, consider the results for the indirect effect and kappa-squared statistic (Preacher and Kelley, 2011). The latter metric is bounded between 0 and 1 , and reflects the ratio of the indirect effect to its maximum possible value. In all five mediation systems analyzed in Table II, the bootstrap confidence intervals for indirect (mediation) effects do not include the value zero, thus supporting indirect effects. That is, $\mathrm{A}_{\mathrm{pp}}$ mediates the impact of $A_{\text {actor }}$ on $A_{b}, A_{\text {char }}$ mediates the impact of $A_{\text {actor }}$ on $A_{p p}$, $A_{\text {movie }}$ mediates the impact of $A_{\text {actor }}$ on $A_{p p}, A_{\text {movie }}$ mediates the impact of $A_{\text {char }}$ on $A_{p p}$ and $A_{p p}$ mediates the impact of Fit ${ }_{\text {actor-b }}$ on $A_{b}$. For mediation systems 1 and 5, the kappa-squared statistic indicates relatively more robust mediation effects compared to others. It is also interesting that
the direct effects for these two mediation systems ( $\mathrm{A}_{\mathrm{actor}}$ on $\mathrm{A}_{\mathrm{b}}$ and Fit $_{\text {actor-b }}$ on $A_{b}$ ) are not statistically significant, so the indirect effect in these two cases fully mediates the relationship between X and Y .

## Moderated mediation analyses

We also examined if the mediation effects in Table II are moderated by other variables in our model framework. This analysis specifies the indirect effect of X on Y through mediator M as a function of a moderator W . The slope of this function, labeled as the index of moderated mediation, represents a formal statistical test of the moderation of the indirect effect of X on Y .
For each of the five mediation systems, we tested the potential role of relevant moderator variables included in our conceptual model, with the remaining variables held as covariates or control variables. Once again, a limitation of these analyses is that we only focus on a limited set of variables ( $\mathrm{X}, \mathrm{Y}, \mathrm{M}$ and W ) at a given time, so the results may not generalize to the entire model network shown in Figure 1.
Results in Table III show that, with three exceptions noted next, the bulk of the results are not statistically significant, and therefore do not offer support for moderated mediation. In mediation system $1, \mathrm{~A}_{\text {char }}$ is shown to negatively moderate the indirect effect of $A_{\text {actor }}$ on $A_{b}$ through mediator $A_{p p}$; similarly, Fit ${ }_{\text {char-b }}$ is shown to negatively moderate the indirect effect of $\mathrm{A}_{\text {actor }}$ on $\mathrm{A}_{\mathrm{b}}$ through mediator $\mathrm{A}_{\mathrm{pp}}$. In mediation system 5, $\mathrm{A}_{\text {actor }}$ is shown to negatively moderate the indirect effect of Fit $_{\text {actor-b }}$ on $\mathrm{A}_{\mathrm{b}}$ through mediator $\mathrm{A}_{\mathrm{pp}}$. Interpretively, these three significant moderated mediation effects imply the following:
1 as $\mathrm{A}_{\text {char }}$ increases, the positive indirect effect of $\mathrm{A}_{\text {actor }}$ on $A_{b}$ through mediator $A_{p p}$ decreases. In other words, higher levels of $\mathrm{A}_{\text {char }}$ may diminish, substitute or

Table II Testing for mediation effects

| Mediation system | Effect description/metric/test | Effect size | SE | LLCI | ULCI | Statistical inference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. $X=A_{\text {actor }}, Y=A_{b}, M=A_{p p}$ | Direct effect of $A_{\text {actor }}$ on $A_{b}$ Indirect effect of $A_{\text {actor }}$ on $A_{b}$ | $\begin{aligned} & \hline 0.0315 \\ & 0.1004 \end{aligned}$ | $\begin{aligned} & \hline 0.0166 \\ & 0.0160 \end{aligned}$ | $\begin{array}{r} -0.0012 \\ 0.0723 \end{array}$ | $\begin{aligned} & 0.0643 \\ & 0.1359 \end{aligned}$ | Not significant Significant |
|  | Preacher and Kelley kappa-squared | 0.3241 | 0.0446 | 0.2423 | 0.4198 | Significant |
| 2. $X=A_{\text {actor }}, Y=A_{p p}, \mathrm{M}=\mathrm{A}_{\text {char }}$ | Direct effect of $\mathrm{A}_{\text {actor }}$ on $\mathrm{A}_{\mathrm{pp}}$ | 0.0796 | 0.0197 | 0.0407 | 0.1184 | Significant |
|  | Indirect effect of $\mathrm{A}_{\text {actor }}$ on $\mathrm{A}_{\mathrm{pp}}$ | 0.0837 | 0.0143 | 0.0579 | 0.1152 | Significant |
|  | Preacher and Kelley kappa-squared | 0.2477 | 0.0364 | 0.1789 | 0.3238 | Significant |
| 3. $X=A_{\text {actor }}, Y=A_{\text {pp }}, M=A_{\text {movie }}$ | Direct effect of $\mathrm{A}_{\text {actor }}$ on $\mathrm{A}_{p p}$ | 0.1237 | 0.0185 | 0.0873 | 0.1601 | Significant |
|  | Indirect effect of $\mathrm{A}_{\text {actor }}$ on $\mathrm{A}_{\mathrm{pp}}$ | 0.0396 | 0.0111 | 0.0208 | 0.0645 | Significant |
|  | Preacher and Kelley kappa-squared | 0.1309 | 0.0339 | 0.0718 | 0.2053 | Significant |
| 4. $X=A_{\text {char }}, Y=A_{\text {pp }}, M=A_{\text {movie }}$ | Direct effect of $\mathrm{A}_{\text {char }}$ on $\mathrm{A}_{\text {pp }}$ | 0.4440 | 0.0511 | 0.3433 | 0.5447 | Significant |
|  | Indirect effect of $\mathrm{A}_{\text {char }}$ on $\mathrm{A}_{\text {pp }}$ | 0.0974 | 0.0290 | 0.0468 | 0.1631 | Significant |
|  | Preacher \& Kelley kappa-squared | 0.1189 | 0.0339 | 0.0564 | 0.1911 | Significant |
| 5. $X=$ Fit $_{\text {actor-br }}$ Y $Y=A_{b}, \mathrm{M}=\mathrm{A}_{\mathrm{pp}}$ | Direct effect of Fit ${ }_{\text {actor-b }}$ on $\mathrm{A}_{\mathrm{b}}$ | 0.0642 | 0.0397 | -0.0139 | 0.1423 | Not significant |
|  | Indirect effect of Fit actor-b $^{\text {on }} \mathrm{A}_{\text {b }}$ | 0.2361 | 0.0394 | 0.1657 | 0.3219 | Significant |
|  | Preacher and Kelley kappa-squared | 0.3191 | 0.0437 | 0.2368 | 0.4087 | Significant |

Notes: Legend: $\mathrm{X}=$ independent variable; $\mathrm{Y}=$ dependent variable; $\mathrm{M}=$ mediator; $\mathrm{SE}=$ standard error; LLCI or ULCI $=$ lower level or upper level confidence intervals; All computations involving indirect effect used 5,000 bootstrap samples to generate $95 \%$ bias corrected bootstrap confidence intervals

Table III Tests for moderated mediation

| Mediation system | Moderator | Control variables | Index of MM | SE | LLCI | ULCI | Statistical inference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. $X=A_{\text {actor }}, Y=A_{b}, M=A_{p p}$ | W | $\mathrm{A}_{\text {charr }}$ Fit $_{\text {actor-br }}$ Fit $_{\text {char-br }}$, Fit | -0.0041 | 0.0035 | -0.0109 | 0.0027 | Not significant |
|  | $\mathrm{W}=\mathrm{A}_{\text {char }}$ | $\mathrm{A}_{\text {movie, }}$ Fit $_{\text {actor-b, }}$, Fit $_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | -0.0067 | 0.0025 | -0.0122 | -0.0020 | Significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {actor-b }}$ | $\mathrm{A}_{\text {movie, }} \mathrm{A}_{\text {charr }}$, Fit ${ }_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | -0.0048 | 0.0020 | -0.0086 | -0.0007 | Significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {char-b }}$ | $\mathrm{A}_{\text {movie }} \mathrm{A}_{\text {charr }} \mathrm{Fit}_{\text {actor-b, }}$, $\mathrm{Fit}_{\text {movie-b }}$ | -0.0032 | 0.0023 | -0.0072 | 0.0017 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {movie- }}$ | $\mathrm{A}_{\text {movier }} \mathrm{A}_{\text {charr }}$ Fit $_{\text {actor-br }}$, Fit ${ }_{\text {char-b }}$ | -0.0019 | 0.0020 | $-0.0055$ | 0.0023 | Not significant |
| 2. $\mathrm{X}=\mathrm{A}_{\text {actor }}, \mathrm{Y}=\mathrm{A}_{\mathrm{pp}}, \mathrm{M}=\mathrm{A}_{\text {char }}$ | $W=A_{\text {movie }}$ | $A_{\text {b }}$, Fit $_{\text {actor-br }}$, Fit $_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | 0.0011 | 0.0018 | -0.0025 | 0.0047 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {ator-b }}$ | $\mathrm{A}_{\text {movie, }} \mathrm{A}_{\text {charr }}$, $\mathrm{Fit}_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | 0.0002 | 0.0013 | -0.0028 | 0.0024 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {char-b }}$ | $A_{\text {movie }}, A_{b}$, Fit $_{\text {actor-b }}$, Fit $_{\text {movie-b }}$ | -0.0008 | 0.0012 | $-0.0035$ | 0.0014 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {movie-b }}$ | $A_{\text {movie, }} A_{b}$, Fit $_{\text {actor-b, }}$, Fit $_{\text {char-b }}$ | -0.0008 | 0.0010 | $-0.0030$ | 0.0009 | Not significant |
| 3. $\mathrm{X}=\mathrm{A}_{\text {actor }}, \mathrm{Y}=\mathrm{A}_{\text {pp, }}, \mathrm{M}=\mathrm{A}_{\text {movie }}$ | W | $A_{b}$, Fit $_{\text {actor-b, }}$, Fit $_{\text {char-b }}$, Fit $_{\text {movie-b }}$ | -0.0018 | 0.0017 | $-0.0053$ | 0.0013 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {actor-b }}$ | $A_{b}, A_{\text {charr }}$, Fit $_{\text {char-br }}$ Fit $_{\text {movie-b }}$ | -0.0006 | 0.0013 | -0.0032 | 0.0014 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {char-b }}$ | $\mathrm{A}_{\text {charr }} \mathrm{A}_{\text {b }}$, Fit $_{\text {actor-br }}$, Fit ${ }_{\text {movie-b }}$ | -0.0001 | 0.0014 | $-0.0030$ | 0.0022 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {movie-b }}$ | $\mathrm{A}_{\text {char }} A_{\text {b }}, \mathrm{Fit}_{\text {actor-b, }}$, Fit ${ }_{\text {char }}$ | 0.0002 | 0.0010 | $-0.0018$ | 0.0020 | Not significant |
| 4. $X=A_{\text {char }}, Y=A_{\text {pp }}, M=A_{\text {movie }}$ | $W=A_{\text {actor }}$ | $\mathrm{A}_{\mathrm{b}}$, Fit $_{\text {actor-br }}$, $_{\text {Fit }}^{\text {char-br }}$, Fit $_{\text {movie-b }}$ | -0.0015 | 0.0014 | -0.0046 | 0.0009 | Not significant |
|  | $W=\mathrm{Fit}_{\text {actor-b }}$ | $\mathrm{A}_{\text {b }}, \mathrm{A}_{\text {charr }}$, Fit $_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | -0.0005 | 0.0029 | $-0.0058$ | 0.0057 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {char-b }}$ | $A_{\text {actorr }} A_{\text {b }}$, Fit $_{\text {actor-br }}$, Fit $t_{\text {movie-b }}$ | -0.0002 | 0.0027 | $-0.0056$ | 0.0054 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {movie-b }}$ | $A_{\text {actorr }} A_{\text {b }}$, Fit $_{\text {actor-b, }}$, Fit ${ }_{\text {char-b }}$ | 0.0007 | 0.0024 | $-0.0038$ | 0.0058 | Not significant |
| 5. $X=\mathrm{Fit}_{\text {actor- } \mathrm{b}^{\prime}} \mathrm{Y}=\mathrm{A}_{\mathrm{b}}, \mathrm{M}=\mathrm{A}_{\mathrm{pp}}$ | $W=A_{\text {actor }}$ | $\mathrm{A}_{\text {charr }} \mathrm{A}_{\text {movie, }}$, $\mathrm{Fit}_{\text {char-br }}$ Fit $_{\text {movie-b }}$ | -0.0048 | 0.0021 | $-0.0086$ | -0.0004 | Significant |
|  | $W=A_{\text {movie }}$ | $\mathrm{A}_{\text {char }}, \mathrm{A}_{\text {actorr }}$ Fit $_{\text {char-br }}$, Fit $_{\text {movie-b }}$ | 0.0011 | 0.0076 | -0.0138 | 0.0161 | Not significant |
|  | $\mathrm{W}=\mathrm{A}_{\text {char }}$ | $\mathrm{A}_{\text {movie, }} \mathrm{A}_{\text {actorr }}$, $\mathrm{Fit}_{\text {char-b }}$, Fit $_{\text {movie-b }}$ | -0.0099 | 0.0057 | $-0.0228$ | 0.0002 | Not significant |
|  | W $=$ Fit $_{\text {char }-\mathrm{b}}$ | $A_{\text {movie }} A_{\text {charr }} A_{\text {actorr }}$, Fit ${ }_{\text {movie-b }}$ | -0.0051 | 0.0052 | -0.0138 | 0.0067 | Not significant |
|  | $\mathrm{W}=\mathrm{Fit}_{\text {movie-b }}$ | $A_{\text {movie, }} A_{\text {charr }} A_{\text {actorr }}$ Fit $\mathrm{Fit}_{\text {char-b }}$ | -0.0017 | 0.0051 | -0.0101 | 0.0101 | Not significant |

Notes: Legend: $\mathrm{X}=$ independent variable; $\mathrm{Y}=$ dependent variable; $\mathrm{M}=$ mediator; $\mathrm{W}=$ moderator; $\mathrm{SE}=$ standard error; LLCI or $\mathrm{ULCI}=$ lower level or upper level confidence intervals; all computations used 5,000 bootstrap samples to generate $95 \%$ bias corrected bootstrap confidence intervals
compensate for some of the impact of $A_{\text {actor }}$ on $A_{b}$ through mediator $\mathrm{A}_{\mathrm{pp}}$;
2 as Fit ${ }_{\text {char-b }}$ increases, the positive indirect effect of $A_{\text {actor }}$ on $A_{b}$ through mediator $A_{p p}$ decreases; and
3 as $\mathrm{A}_{\text {actor }}$ increases, the positive indirect effect of Fit ${ }_{\text {actor-b }}$ on $A_{b}$ through mediator $A_{p p}$ decreases.
When taken together, 2 and 3 indicate that Fit actor-b and $\mathrm{A}_{\text {actor }}$ share similarities in terms of moderation roles impacting $A_{b}$ through mediator $\mathrm{A}_{\mathrm{pp}}$.

## Structural equation modeling

SEM analyses carry at least two significant advantages over analyses reported thus far. First, the SEM estimation process explicitly recognizes and accommodates measurement error, so the latent constructs in SEM are not affected by this error. Second, SEM involves the analysis of the entire conceptual model, rather than sub-systems of the model.
We follow the Anderson and Gerbing (1988) approach whereby the measurement model is estimated first, followed by the structural model. We used the EQS robust maximum likelihood (ML) estimation procedure that is appropriate when multivariate kurtosis is high (Bentler, 1995; Bentler and Yuan, 1999; Chou et al., 1991), a characteristic evident in our data. We used multiple fit indices [where non-normed fit index (NNFI), comparative fit index (CFI) and Bollen's Fit Index (IFI) values of 0.9 or higher indicate a very good model fit], and root mean square error of approximation (RMSEA; values of 0.05 or lower are desirable). Several studies (Chou et al., 1991; Curran et al., 1996; Hu et al., 1992) show that
robust ML performs well under non-normal conditions and with normal data.

Measurement model - specification and estimation
The adapted Ohanian (1990) scale (see $\mathrm{A}_{\text {actor }}$ items V1 to V15 in Appendix) is the only multidimensional construct in our conceptual model. The three dimensions of this scale (i.e. perceived attractiveness, trustworthiness and expertise) were specified as first-order factors, with the latent $\mathrm{A}_{\text {actor }}$ construct serving as a second-order factor. We incorporated the $\mathrm{A}_{\text {actor }}$ construct into the full measurement model that includes covariance between all pairs of latent constructs (Novak et al., 2000).
The final measurement model has eight latent constructs that were measured using 41 indicator items (shown in the Appendix). We performed a confirmatory factor analysis of this model and found that the model had excellent fit indices (RMSEA: 0.039; CFI: 0.948) as shown in the top of Table IV. In addition, all factor loadings were significant, and there were no cross-loadings, demonstrating good data fit to the specified model. Hence, no modification of the original model was required.
However, the significant Satorra Bentler scaled chi-squared statistic merits discussion because it suggests that the model did not fit the data. In general, the inability of the chi-squared statistic to assess model fit accurately is well-known (Hu and Bentler, 1995). According to Bagozzi and Yi (1988), chi-square is not a good measure of model fit when the estimation sample size exceeds 200. Additionally, this statistic is sensitive to violations of multivariate normality. Under these circumstances, Hu and Bentler (1995) recommend that

Table IV Fit indices for measurement and structural models

chi-square should be disregarded in favor of other measures of model fit, a practice we follow for all results reported in this study. Overall, therefore, we interpret the measurement model results in Table IV as reflecting excellent fit with the data.

## Structural model - specification and estimation

While estimating the structural model, we ask: does the model fit well with the data (as evidenced by fit statistics)? Are the direction, sign and statistical significance of the estimated coefficient for each model path in line with corresponding hypotheses? Does the magnitude of the path coefficients provide unique insights about the relative strength of specific paths? Do $R^{2}$ values corresponding to each dependent variable shed light on the variance explained for that latent construct?
Initial estimation of the model in Figure 1 yielded acceptable results with respect to key fit indices (RMSEA: 0.057; CFI: 0.887). We examined reasonable steps to improve model fit. Although results from Wald and Lagrange multiplier tests provided several recommendations to remove or add specific model parameters (or model paths), we used extreme caution in implementing post hoc model modification recommendations to preserve the model's further development on a "theory driven" path rather than a "data driven" premise. In other words, we restricted attention to model modifications that are theoretically defensible. Details of the model modification steps 1 through 4 are presented in Table IV. The final model has six latent constructs and excellent fit indices (RMSEA: 0.043; CFI: 0.943). All paths retained in the final model were found to be statistically significant (see Figure 2 and Table V). Note that the following
two paths in Figure 1 are not present in Figure 2: $\mathrm{A}_{\text {actor }}$ to $\mathrm{A}_{\mathrm{b}}$ (H1), and Fit ${ }_{\text {actor-b }}$ to $\mathrm{A}_{\mathrm{b}}(H 4)$. We also observe that these two direct paths are not statistically significant (or fully mediated by the indirect path) in the mediation analyses reported in Table II.

## Discussion

As Table IV shows, steps 1 and 2 of our structural model modification process involved removal of two model paths:
1 Fit ${ }_{\text {movie-b }}$ to $A_{\mathrm{pp}}$; and
2 Fit ${ }_{\text {char-b }}$ to $\mathrm{A}_{\mathrm{pp}}$.
These results, when combined with the results supporting H5 (see Table IV), answer our research question ( $R Q$ ): the fit between actor and brand influences $\mathrm{A}_{\mathrm{pp}}$, but the other two "fit" constructs do not influence $\mathrm{A}_{\mathrm{pp}}$.
Steps 3 and 4 of our structural model modification process in Table IV indicate that the model fit improves when the paths underlying H 2 and H 9 are removed. As Figure 2 and Table IV indicate, all hypotheses in the conceptual model (Figure 1) were supported with the exception of H1, H2, H4 and $H 9$. From a substantive standpoint, Figure 2 reinforces the role of $\mathrm{A}_{\mathrm{pp}}$ as a key attitudinal construct that channels the effects on $\mathrm{A}_{\mathrm{b}}$ from three other constructs in the attitudinal constellation ( $\mathrm{A}_{\text {actor }}, \mathrm{A}_{\text {char }}$ and $\mathrm{A}_{\text {movie }}$ ). As stated earlier, the actor and the brand are entities anchored to prior or external (real-world) perceptions. However, the attitudes toward these entities are not linked directly in the final structural model. Instead, they are linked indirectly via attitudinal constructs

Figure 2 Final structural model, hypothesized paths, standardized loadings and $R^{2}$ values

( $\mathrm{A}_{\text {char }}, \mathrm{A}_{\text {movie }}$ and $\mathrm{A}_{\mathrm{pp}}$ ) that belong to the contextual or internal (fictitious world) perceptions that characterize movies. From the perspective of McCracken's meaning transfer theory, they suggest that the meaning flow from the actor and brand (two entities anchored to the real, external world) depends on three attitudinal constructs ( $\mathrm{A}_{\text {char }}, \mathrm{A}_{\text {movie }}$ and $A_{p p}$ ) in the product placement domain. In particular, the lack of support for $H 1, H 2, H 4$ and $H 9$ underscores the key role played by $\mathrm{A}_{\text {char }}$ in the meaning transfer process. This finding is also in line with results of the moderated mediation analysis involving $\mathrm{A}_{\text {char }}$ (see Table II). Reassuringly, the $R^{2}$ values for all four attitudinal constructs ( $\mathrm{A}_{\mathrm{char}}, \mathrm{A}_{\text {movie }}, \mathrm{A}_{\mathrm{pp}}$ and
$A_{b}$ ) are acceptably high in Figure 2, thereby affirming the centrality of these latent constructs to our model.

The magnitudes of the standardized path coefficients indicate the relative strengths of various factors influencing each dependent variable in Figure 2. For example, it is clear that $A_{\text {char }}$ directly or indirectly accounts for more of the variance in $\mathrm{A}_{\mathrm{pp}}$ when compared to the $\mathrm{Fit}_{\text {actor-b }}$ that also influences $A_{p p}$. Similarly, $A_{\text {actor }}$ ultimately accounts for the bulk of the variance in $A_{b}$ (indirect effects via $A_{\text {char }}, A_{\text {movie }}$ and $\mathrm{A}_{\mathrm{pp}}$ ), thereby affirming two key tenets of McCracken's (1989) model and our interpretation of identification and attachment theories: viewers identify primarily with, and develop

Table V Results-hypotheses tests for final structural model

| Hypothesis or research question | Independent variable | Dependent variable | Robust standard error | $t$ value | Hypothesis test outcome |
| :---: | :---: | :---: | :---: | :---: | :---: |
| H1 | Attitude toward the Actor | Attitude toward the brand |  |  | Not supported |
| H2 | Attitude toward the Actor | Attitude toward the product placement |  |  | Not supported |
| H3 | Attitude toward the product placement | Attitude toward the brand | 0.117 | 4.751* | Supported |
| H4 | Fit between actor and brand | Attitude toward the brand |  |  | Not supported |
| H5 | Fit between actor and brand | Attitude toward the Product placement | 0.056 | 3.311* | Supported |
| H6 | Attitude toward the Actor | Attitude toward the character | 0.067 | 7.718* | Supported |
| H7 | Attitude toward the character | Attitude toward the movie | 0.103 | 4.197* | Supported |
| H8 | Attitude toward the character | Attitude toward the product placement | 0.099 | 4.825* | Supported |
| H9 | Attitude toward the Actor | Attitude toward the movie |  |  | Not supported |
| H10 | Attitude toward the Movie | Attitude toward the product placement | 0.071 | 4.025* | Supported |
| RQ1 | Fit between character and brand | Attitude toward the product placement |  |  | No relationship |
| RQ1 | Fit between movie and brand | Attitude toward the product placement |  |  | No relationship |

Note: * $=$ Statistically significant at the 0.05 level
attachments toward, the actor, and meaning/affect transfer occurs from the actor to the placed product.

## Attitude toward the product placement

We note the central position of attitude toward the product placement in the model. That is, $\mathrm{A}_{\mathrm{pp}}$ channels indirect effects on $A_{b}$ from multiple constructs ( $A_{\text {actor }}, A_{\text {char }}, A_{\text {movie }}$ and Fit $_{\text {actor-b }}$ ). A related implication is that marketers should devote special attention to the movie segment that contains a product placement, especially in terms of its creative execution. In other words, it is in the marketers' interest to retain control over how their brands are placed within the movie. Movie-makers and program directors, citing creative freedom, typically refuse to cede such control. This is a problem area that requires dialog between movie producers and brand sponsors. It also presents an opportunity for placement agencies to establish common ground between marketers and movie-makers, given their expert knowledge about the creative processes underlying program content. They need to establish minimum standards that sponsors can expect from all product placements.

Relationship between $A_{\text {actor }}, A_{\text {char, }}, A_{\text {movie }}, A_{p p}$ and $A_{b}$
Russell and Stern (2006) propose a "Balance Model of Sitcom Placement Effects" with three components: the consumer (or viewer), the product (or brand placed) and the character (or a movie actor, for our purposes). There are interesting conceptual similarities between the Russell and Stern (2006) approach and our model. For example, consider the inter-relationships among $A_{\text {actor }}, A_{\text {char }}, A_{\text {movie }}, A_{p p}$ and $A_{b}$ in our model. $A_{\text {char }}$ and $A_{b}$, respectively, represent viewers' attitudes toward the character and product components of the Russell and Stern (2006) triad. Similarly, $\mathrm{A}_{\text {movie }}$ and $\mathrm{A}_{\text {actor }}$ are attitudinal derivatives tied to the character domain in their Balance Model, while $\mathrm{A}_{\mathrm{pp}}$ is related to the product domain in that model. The third component of their triad (the consumer) finds expression as the source of all five attitudinal constructs in our model.

## Fit between actor and brand

Results show that Fit ${ }_{\text {actor-b }}$ positively influences $\mathrm{A}_{\mathrm{pp}}$. Placements may have the ability to suppress negative brand-related attributions. Note that the brand message is embedded within the editorial content of a much larger program that seeks to entertain audiences, and that viewers will remain involved with the story for the duration of the movie. If the fit is excellent, i.e. the brand's endorsement by the actor is skillfully woven into this story, viewers may implicitly accept the brand without counter-arguments, thereby influencing their attitudes positively. Therefore, marketers should assure that their placements are subtle, realistic and well-integrated with the program content. Previous research has also shown that well-integrated placements are more favorably received (D'Astous and Chartier, 2000; Russell, 2002).
The extent to which the image of the actor resonates with the viewer is of critical importance from the perspective of both identification and attachment theories. Viewers' preferences for actors/models can easily translate into preference for the brand (Russell and Stern, 2006). Additionally, our study showcases the important roles of two attitudinal constructs (attitude toward the actor and attitude
toward the movie) in the placement context. Marketers should undertake special efforts to identify actors who are favorably perceived, and then design a placement around them to maximize impact on the brand. Viewers also tend to like the movie more if they like the actor. This in turn increases the likelihood that they will evaluate the placement more positively. As Balasubramanian et al. (2006) note, there are professional outlets (such as www.mediamatchmaker.com) available that link movie producers with marketers that may help the latter to optimize the fit between the actor and the brand.

## Contributions, limitations and future research directions

## Contributions

Marketers often cite examples of effective product placements, but there is a pressing need to discover why some placements perform significantly better than others. With the increasing role of product placements in the marketing communication mix, marketers may benefit from increased understanding of the process and variables that show how placements generate impact, a task addressed by our model.
Previous research has documented the impact of placements on attitudes but the process through which this impact occurred has remained unexplored. In this study, we identify key attitudinal antecedents that shape brand attitudes in the placement context and explore their inter-relationships to shed empirical light on this process. A key strength of the study is that we allowed respondents to draw on their memory and select a placement episode that was idiosyncratic, recent and memorable. This resulted in a large variety of placement episodes (involving different brands, actors and movies) being represented in our database, making our findings more generalizable than say, studies from the "forced exposure" experimental paradigm, where all respondents are exposed to the same placement episode.

Attitude toward the placed brand ( $\mathrm{A}_{\mathrm{brand}}$ ) is generally accepted by sponsors as an index of a placement's effectiveness, and therefore represents the key outcome in our model. Our research shows that attitude toward the product placement $\left(\mathrm{A}_{\mathrm{pp}}\right)$ is an important construct that is significantly related to $\mathrm{A}_{\mathrm{brand}}$. More than half the variance in $\mathrm{A}_{\mathrm{pp}}$ can be explained by its antecedents, which include attitudes toward the movie and character, as well as the fit between the actor and the brand ( $\mathrm{A}_{\text {movie }}, \mathrm{A}_{\text {character }}, \mathrm{Fit}_{\text {actor-b }}$ ), and indirectly, by the attitude toward the actor ( $\mathrm{A}_{\text {actor }}$ ).
Our work suggests that it is desirable for audiences to evaluate the entire movie favorably, as this seems to have an effect on their evaluation of the placement segment, and hence indirectly on their attitude toward the brand. In other words, if the audience does not like the entire movie, this will likely have a negative impact on evaluations of both the placement segment and the placed brand. In the cognitive domain, Bressoud et al. (2010) found that attitude toward the movie also has an effect on placement recall - another commonly used index of placement effectiveness - which indicates that this is a factor that deserves attention. Redondo and Holbrook (2010) found strong relationships between specific movie features and audience demographics. In the context of
findings from our study, it may be helpful to match movie and audience characteristics as an integral part of the decisions involving movie placements.

We found a positive relationship between the attitude to the character and attitude to the placement, indicating that the attitude toward the placement has a mediating effect between the attitude toward the character and the attitude toward the brand. It is useful to consider this finding in the context of results from Russell and Stern (2006). While the latter study focused on long-running television sitcoms, it also addressed constructs relevant to the movie-viewing context, specifically attitude toward the character. We assume that in the movie product placement context, the character's attitude to the product placed (one of the variables considered in the Russell and Stern study) is likely to be positive and hence the results from both studies are not contradictory. However, in the case of movie actors playing the same characters that span multiple sequels or spin-offs - for example, Samuel L. Jackson as Nick Fury in nine movies (Reuters, 2009) - our model may need to include the consumer's parasocial attachment to the character.
While we studied several antecedent constructs to the attitude toward the brand, the main factors that are truly controllable in this model are $\mathrm{A}_{\text {actor }}$ and $\mathrm{Fit}_{\text {actor-b }}$. Placement opportunities need to be carefully evaluated based on these factors to ensure a "successful" placement.
As mentioned, our findings affirm a key - although indirect - role for the actor featured in the placement. The actor, in this context, may play a role analogous to a celebrity spokesperson.
In looking for placement opportunities, for creative reasons, producers often prefer options that are realistic and well-integrated (Martin, 2000). However, our research shows that from the marketer's perspective, the fit between the character and the brand and that of the movie and the brand are less important than the fit between the actor and the brand. This finding is reminiscent of Hirschman and Thompson's (1997) suggestion that advertisers should refrain from attempting to manage creative content to suit their brand placement needs to avoid consumer sensitization to these persuasive attempts. Interestingly, in the context of television mini-series and dramas, D'Astous and Séguin (1999) find that sponsor-program congruity does not lead to better consumer evaluations of the brand. It would hence be in the best interests of marketers to focus on the fit between the actor (the de facto endorser) and the brand to ensure that the placement is effective.

## Limitations

Every effort was made to incorporate germane constructs into our model while balancing the need for model parsimony. However, it is possible that some factors not represented in the model may exert independent influence on brand attitudes. For example, favorable consumption experiences and/or simultaneous advertising for the brand may influence brand attitudes independently. Individual-specific variables like brand loyalty, frequency of movie/TV watching and gender may produce moderating effects. Also, modality variables (audio, visual and audio-visual placements), duration of placements and other execution variables need attention. Our
database included 136 movies that were successfully recalled, and the resources needed to code these movies on execution variables were beyond the scope of our study. Similarly, viewing situations may have an impact, e.g. whether consumers watched the program at home or in a theatre setting could influence brand attitudes differently. Furthermore, the bulk of the respondents belonged to the 18-25 years age group. Future replication of our study using a more representative adult sample is desirable. Finally, our research is predicated on explicit recall outcomes. Van Reijmersdal (2009) has observed that prominent placements may improve memory outcomes but may actually adversely impact brand attitudes under specific conditions because of implicit effects. It is desirable that future research in this research area should consider both explicit and implicit effects.

## Future research directions

Future research should also explore the boundary conditions for the "fit" construct. While a high level of "fit" is generally beneficial for the brand, can extraordinary "fit" be detrimental to the brand? In other words, will the audience remember a placed brand with extraordinary "fit" such that the placement was rendered too subtle and too unobtrusive to be noticed? Similarly, are there cost/benefit tradeoffs to obtrusive placements that render them beneficial under special circumstances?

## References

Anderson, J.C. and Gerbing, D.W. (1988), "Structural equation modeling in practice: a review and recommended two-step approach", Psychological Bulletin, Vol. 103 No. 3, pp. 411-423.
Babin, L.A. and Carder, S.T. (1996), "Viewer's recognition of brands placed within a film", International fournal of Advertising, Vol. 15 No. 2, pp. 140.
Bagozzi, R.P. and Yi, Y. (1988), "On the evaluation of structural equation models", fournal of the Academy of Marketing Science, Vol. 16 No. 1, pp. 74-94.
Balasubramanian, S.K. (1994), "Beyond advertising: hybrid messages and public policy issues", fournal of Advertising, Vol. 23 No. 4, pp. 29-46.
Balasubramanian, S.K., Karrh, J.A. and Patwardhan, H. (2006), "Audience response to product placements: an integrative framework and future research agenda", fournal of Advertising, Vol. 35 No. 3, pp. 119-146.
Bandura, A. (1977), Social Learning Theory, Prentice-Hall, Englewood Cliffs, NJ.
Belk, R.W. (1988), "Possessions and the extended self", Fournal of Consumer Research, Vol. 15 No. 2, pp. 139-168.
Bentler, P.M. (1995), EQS Structural Equations Program Manual, Multivariate Software, Encino, CA.
Bentler, P.M. and Yuan, K. (1999), "Structural equation modeling with small samples: test statistics", Multivariate Behavioral Research, Vol. 34 No. 2, pp. 181-197.
Brennan, I. (2008), "Brand placement in novels", International fournal of Advertising, Vol. 27 No. 4, pp. 495-509.
Brennan, I., Dubas, K.M. and Babin, L.A. (1999), "The influence of product-placement type and exposure time on
product placement recognition", International fournal of Advertising, Vol. 18 No. 3, pp. 323-337.
Bressoud, E., Lehu, J.M. and Russell, C.A. (2010), "The product well placed", fournal of Advertising Research, Vol. 50 No. 4, pp. 374-385.
Brown, S.P. and Stayman, D.M. (1992), "Antecedents and consequences of attitude toward the ad: a meta-analysis", Fournal of Consumer Research, Vol. 19 No. 1, pp. 34-51.
Chou, C.P., Bentler, P.M. and Satorra, A. (1991), "Scaled test statistics and robust standard errors for nonnormal data in covariance structure analysis: a Monte Carlo study", British fournal of Mathematical and Statistical Psychology, Vol. 44 No. 2, pp. 347-357.
Cowley, E. and Barron, C. (2008), "When product placement goes wrong", fournal of Advertising, Vol. 37 No. 1, pp. 89-98.
Curran, P.J., West, S.G. and Finch, J.F. (1996), "The robustness of test statistics to nonnormality and specification error in confirmatory factor analysis", Psychological Methods, Vol. 1 No. 1, pp. 16-29.
D'Astous, A. and Chartier, F. (2000), "A study of factors affecting consumer evaluations and memory of product placements in movies", Fournal of Current Issues \& Research in Advertising, Vol. 22 No. 2, pp. 31-40.
D'Astous, A. and Seguin, N. (1999), "Consumer reactions to product placement strategies in television sponsorship", European Fournal of Marketing, Vol. 33 Nos 9/10, pp. 896-910.
D'Astous, A. and Touil, N. (1999), "Consumer evaluations of movies based on critics' judgments", Psychology and Marketing, Vol. 16 No. 8, pp. 677-694.
De Gregorio, F. and Sung, Y. (2010), "Understanding attitudes towards and behaviors in response to product placement", fournal of Advertising, Vol. 39 No. 1, pp. 83-96.
Delattre, E. and Colovic, A. (2009), "Memory and perception of brand mentions and placement of brands in songs", International fournal of Advertising, Vol. 28 No. 5, pp. 807-842.
DeLorme, D.E. and Reid, L.N. (1999), "Moviegoers' expectations and interpretations of brands in films revisited", Fournal of Advertising, Vol. 28 No. 2, pp. 71-95.
Dens, N., De Pelsmacker, P., Wouters, M. and Purnawirawan, N. (2012), "Do you like what you recognize?", fournal of Advertising, Vol. 41 No. 3, pp. 35-54.
Dimofte, C.V., Forehand, M.R. and Deshpande, R. (2003), "Ad schema incongruity as elicitor of ethnic self-awareness and differential advertising response", fournal of Advertising, Vol. 32 No. 4, pp. 7-17.
Edwards, J.R. and Lambert, L.S. (2007), "Methods for integrating moderation and mediation: a general analytical framework using moderated path analysis", Psychological Methods, Vol. 12 No. 1, pp. 1-22.
Eisend, M. (2009), "A cross-cultural generalizability study of consumers' acceptance of product placements in movies", Fournal of Current Issues and Research in Advertising, Vol. 31 No. 1, pp. 15-25.
Fishbein, M. and Ajzen, I. (1975), Belief, Attitude, Intention and Behavior: An Introduction to Theory and Research Reading, Addison-Wesley, Reading, MA.

Fournier, S. (1998), "Consumers and their brands: developing relationship theory in consumer research", Fournal of Consumer Research, Vol. 24 No. 4, pp. 343-373.
Freeman, L. (2000), "If the product fits a series, TNT wants it", Electronic Media, Vol. 19 No. 48, p. 12.
Gillespie, B., Joireman, J. and Muehling, D. (2012), "The moderating effect of ego depletion on viewer brand recognition and brand attitudes following exposure to subtle versus blatant product placements in television programs", Fournal of Advertising, Vol. 41 No. 2, pp. 55-65.
Gould, S.J. and Gupta, P.B. (2006), "'Come on down': how consumers view game shows and the products placed in them", fournal of Advertising, Vol. 35 No. 1, pp. 65-81.
Gould, S.J., Gupta, P.B. and Grabner-Krauter, S. (2000), "Product placement in movies: a cross-cultural analysis of Austrian, French and American consumer's attitudes toward this emerging, international promotional medium", Fournal of Advertising, Vol. 24 No. 4, pp. 41-58.
Gupta, P.B. Balasubramanian, S.K. and Klassen, M.L. (2000), "Viewer's evaluations of product placements in movies: public policy and managerial implications", fournal of Current Issues and Research in Advertising, Vol. 22 No. 2, pp. 41-52.
Gupta, P.B. and Gould, S.J. (2007), "Recall of products placed as prizes versus commercials in game shows", Fournal of Current Issues and Research in Advertising, Vol. 29 No. 1, pp. 43-53.
Hackley, C. and Hackley nee Tiwsakul, R.A. (2012), "Unpaid product placement: the elephant in the room in UK TV's new paid-for product placement market", International Fournal of Advertising, Vol. 31 No. 4, pp. 703-718.
Hackley, C. and Tiwsakul, R. (2006), "Entertainment marketing and experiential consumption", fournal of Marketing Communications, Vol. 12 No. 1, pp. 63-75.
Hang, H. (2012), "The implicit influence of Bi-Modal brand placement on children", International fournal of Advertising, Vol. 31 No. 3, pp. 465-484.
Hayes, A.F. (2013), Introduction to Mediation, Moderation, and Conditional Process Analysis, Guilford Press, New York, NY.
Hirschman, E.C. and Thompson, C.J. (1997), "Why media matter: toward a richer understanding of consumer's relationships with advertising and mass media", fournal of Advertising, Vol. 26 No. 1, pp. 43-60.
Homer, P.M. (2009), "Product placements", Fournal of Advertising, Vol. 38 No. 3, pp. 21-31.
Hu, L. and Bentler, P.M. (1995), "Evaluating model fit", in Hoyle, R.H. (Ed.), Structural Equation Modeling: Concepts, Issues and Applications, Sage Publications, Thousand Oaks, CA, pp. 76-99.
Hu, L., Bentler, P.M. and Kano, Y. (1992), "Can test statistics in covariance structure analysis be trusted?", Psychological Bulletin, Vol. 112 No. 2, pp. 351-362.
Hui-Fei, L. (2014), "The effect of product placement on persuasion for mobile phone games", International fournal of Advertising, Vol. 33 No. 1, pp. 37-60.
Jose, P.E. (2013), Doing Statistical Mediation \& Moderation, Guilford Press, New York, NY.
Kahle, L.R. and Homer, P.M. (1985), "Physical attractiveness of the celebrity endorser: a social adaptation
perspective", fournal of Consumer Research, Vol. 11 No. 4, pp. 954-962.
Kaikati, J.G. (1987), "Celebrity advertising: a review and synthesis", International fournal of Advertising, Vol. 6 No. 2, pp. 93-106.
Kamins, M.A. (1990), "An investigation into the 'match-up' hypothesis in celebrity advertising: when beauty may be only skin deep", fournal of Advertising, Vol. 19 No. 1, pp. 4-13.
Kamins, M.A. and Gupta, K. (1994), "Congruence between spokesperson and product type: a match-up hypothesis perspective", Psychology and Marketing, Vol. 11 No. 6, pp. 569-587.
Kamleitner, B. and Jyote, A.K. (2013), "How using versus showing interaction between characters and products boosts product placement effectiveness", International Fournal of Advertising, Vol. 32 No. 4, pp. 633-653.
Karnouchina, E.V., Uslay, C. and Erenberg, G. (2011), "Do marketing media have life cycles? The case of product placement in movies", fournal of Marketing, Vol. 75 No. 3, pp. 27-48.
Karrh, J.A. (1998), "Brand placements: a review", fournal of Current Issues and Research in Advertising, Vol. 20 No. 2, pp. 31-49.
Karrh, J.A., McKee, K.B. and Pardun, C.J. (2003), "Practitioners" evolving views on product placement effectiveness", fournal of Advertising Research, Vol. 43 No. 2, pp. 138-149.
Klimmt, C., Hefner, D. and Vorderer, P. (2009), "The video game experience as 'true' identification: a theory of enjoyable alterations of players' self-perception", Communication Theory, Vol. 19, pp. 351-373.
Lee, T., Sung, Y. and Choi, S.M. (2011), "Young adults' responses to product placement in movies and television shows", International fournal of Advertising, Vol. 30 No. 3, pp. 479-507.
Levin, A.M. and Levin, I.P. (1997), "Movie stars and authors as brand names: measuring brand equity in experiential products", Advances in Consumer Research, Vol. 24 No. 1, pp. 175-181.
McCracken, G. (1989), "Who is the celebrity endorser? Cultural foundations of the endorsement process", fournal of Consumer Research, Vol. 16 No. 3, pp. 310-322.
McKechnie, S.A. and Zhou, J. (2003), "Product placement in movies: a comparison of Chinese and American consumers' attitudes", International fournal of Advertising, Vol. 22 No. 3, pp. 349-374.
Mackay, T., Ewing, M., Newton, F. and Windisch, L. (2009), "The effect of product placement in computer games on brand attitude and recall", International fournal of Advertising, Vol. 28 No. 3, pp. 423-438.
MacKinnon, D.P. (2008), Introduction to Statistical Mediation Analysis, Lawrence Erlbaum, Chicago, IL.
Malar, L., Krohmer, H., Hoyer, W.D. and Nyffenegger, B. (2011), "Emotional brand attachment and brand personality: the relative importance of the actual and the ideal self", fournal of Marketing, Vol. 75 No. 4, pp. 35-52.
Mitchell, A. and Olson, J.C. (1981), "Are product attribute beliefs the only mediator of advertising effects on brand
attitude?", fournal of Marketing Research, Vol. 18 No. 3, pp. 318-332.
Muzellec, L., Kanitz, C. and Lynn, T. (2013), "Fancy a coffee with friends in central perk?", International fournal of Advertising, Vol. 32 No. 3, pp. 399-417.
Nebenzahl, I.D. and Secunda, E. (1993), "Consumer's attitudes towards product placements in movies", International fournal of Advertising, Vol. 12 No. 1, pp. 1-12.
Nelson, M.R. and Deshpande, S. (2013), "The prevalence of and consumer response to foreign and domestic brand placement in bollywood movies", fournal of Advertising, Vol. 42 No. 1, pp. 1-15.
Noguti, V. and Russell, C.A. (2014), "Normative influences of product placement effects: alcohol brands in television series and the influence of presumed influence", fournal of Advertising, Vol. 43 No. 1, pp. 46-62.
Novak, T.P., Hoffman, D.L. and Yung, Y. (2000), "Measuring the consumer experience in online environments", Marketing Science, Vol. 19 No. 1, pp. 22-42.
Ohanian, R. (1990), "Construction and validation of a scale to measure celebrity endorser's perceived expertise, trustworthiness and attractiveness", fournal of Advertising, Vol. 19 No. 3, pp. 39-52.
Peters, S. and Leshner, G. (2013), "Get in the game: the effects of game-product congruity and product placement proximity on game players' processing of brands embedded in advergames", fournal of Advertising, Vol. 42 Nos 2/3, pp. 113-130.
Pinzaru, F., Savulescu, R. and Mitan, A. (2013), "New practices in marketing to generation y: product placement in romanian pop music videos", International fournal of Academic Research, Vol. 5 No. 4, pp. 320-326.
PQ Media (2012) available at: www.pqmedia.com/ globalproductplacementforecast (accessed 14 May 2014).
Preacher, K.J. and Kelley, K. (2011), "Effect size measures for mediation models: quantitative strategies for communicating indirect effects", Psychological Methods, Vol. 16 No. 2, pp. 93-115.
Preacher, K.J., Rucker, D.D. and Hayes, A.F. (2007), "Assessing moderated mediation hypotheses: Theory, methods, and prescriptions". Multivariate Behavioral Research, Vol. 42 No. 1, pp. 185-227.
Raney, A.A., Arpan, L.M., Pashupati, K. and Brill, D.A. (2003), "At the movies on the web: an investigation of the effects of entertaining and interactive web content on site and brand evaluations", fournal of Interactive Marketing, Vol. 17 No. 4, pp. 38-53.
Redondo, I. and Holbrook, M.B. (2010), "Modeling the appeal of movie features to demographic segments of theatrical demand", fournal of Cultural Economics, Vol. 34 No. 4, pp. 299-315.
Romaniuk, J. (2009), "The efficacy of brand execution tactics in tv advertising: brand placements and internet advertising", fournal of Advertising Research, Vol. 49 No. 2, pp. 143-150.
Russell, C.A. (1998), "Toward a framework of product placement: theoretical propositions", in Alba, J.W. and Hutchinson, J.W. (Eds) Advances in Consumer Research, Association for Consumer Research, Provo, UT, Vol. 25, pp. 357-362.

Russell, C.A. (2002), "Investigating the effects of product placements in television shows: the role of modality and plot connection congruence on brand memory and attitude", Fournal of Consumer Research, Vol. 29 No. 3, pp. 306-318.
Russell, C.A. and Stern, B. (2006), "Consumers, characters and products: a balance model of sitcom product placement effects", fournal of Advertising, Vol. 35 No. 1, pp. 7-21.
Saini, A.N. (2008), "US television product placements declined by $15 \%$ in the first half of 2008", fournal of Promotion Management, Vol. 14 Nos 1/2, pp. 77-83.
Sood, S. and Dreze, X. (2006), "Brand extensions of experiential goods: movie sequel evaluations", fournal of Consumer Research, Vol. 33 No. 3, pp. 352-360.
Taylor, C. (2009), "Product placement: a hot topic gets hotter", International fournal of Advertising, Vol. 28 No. 5, pp. 753-756.
Thomson, M. (2006), "Human brands: investigating antecedents to consumers' strong attachment to celebrities", fournal of Marketing, Vol. 70 No. 3, pp. 104-119.
Tom, G., Clark, R., Elmer, L., Grech, E., Masetti, J.Jr., and Sandhar, H. (1992), "The use of created vs. celebrity spokespersons in advertisements", fournal of Consumer Marketing, Vol. 9 No. 4, pp. 45-52.
Van Reijmersdal, E.A. (2009), "Brand placement prominence: Good for memory! Bad for attitudes?", fournal of Advertising Research, Vol. 49 No 2, pp. 151-153.
Van Reijmersdal, E.A. (2011), "Mixing advertising and editorial content in radio programmes", International Fournal of Advertising, Vol. 30 No. 3, pp. 425-446.

Van Reijmersdal, E.A., Neijens, P. and Smit, E.G. (2009), "A new branch of advertising", fournal of Advertising Research, Vol. 49 No. 4, pp. 429-449.
Walker, M., Langmeyer, L. and Langmeyer, D. (1992), "Commentary - celebrity endorsers: do you get what you pay for", The fournal of Services Marketing, Vol. 6 No. 4, pp. 35-43.
Wayne, F. (1999), "New movie ads build brand of imagine studio", Advertising Age, Vol. 70 No. 6, p. 18.
Wiles, M.A. and Danielova, A. (2009), "The worth of product placement in successful films: an event study analysis", fournal of Marketing, Vol. 73 No. 4, pp. 44-63.
Wilson, R.T. and Till, B.D. (2011), "Product placements in movies and on Broadway", International fournal of Advertising, Vol. 30 No. 3, pp. 373-398.

## Further reading

Child, B. (2009), "Samuel L Jackson signs up for a Fury flurry", available at: www.theguardian.com/film/2009/feb/ 26/samuel-1-jackson-to-reprise-nick-fury (accessed 23 May 2014).

Hudson, S. and Ritchie, J.R.B. (2006), "Promoting destinations via film tourism: an empirical identification of supporting marketing initiatives", fournal of Travel Research, Vol. 44 No. 4, pp. 387-396.
Karrh, J.A., Frith, K.T. and Callison, C. (2001), "Audience attitudes towards brand (product) placement: Singapore and the United States", International fournal of Advertising, Vol. 20 No. 1, pp. 3-24.

## Appendix 1

Figure A1


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[^0]:    Portions of this work were completed when Balasubramanian served as Visiting Fulbright Research Chair at the School of Business, University of Alberta, Edmonton, Canada. The first author gratefully acknowledges research assistance from Hannan Sadjady Naeeni and Tianyu Zhou.

[^1]:    Relationships among attitude toward the actor, attitude toward the product placement and attitude toward the brand
    Product placements may showcase a brand as a background prop, a visual and/or verbal endorsement by the actor.

