

**Ehri Ryu, Ph.D.**

Department of Psychology  
Boston College  
140 Commonwealth Avenue  
Chestnut Hill, MA 02467

Phone: 617-552-2498  
Email: ehri.ryu.1@bc.edu

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**EDUCATION**

- 2008            Ph.D. in Quantitative Psychology, Arizona State University  
Dissertation: *Evaluation of model fit in multilevel structural equation modeling: Level-specific model fit evaluation and robustness to non-normality*  
Advisor: Dr. Stephen G. West
- 2007            Graduate Certificate in Statistics, Arizona State University  
Awarded by the School of Mathematical and Statistical Sciences to graduate students in other departments who complete all requirements for Master's in Statistics with the exception of the thesis
- 2004            M.A. in Quantitative Psychology, Arizona State University  
Thesis: *Effects of small group size on the estimation of multilevel models: A Monte Carlo Study*  
Advisor: Dr. Siek Toon Khoo and Dr. Stephen G. West
- 2000-2002      Graduate coursework, Department of Psychology, Seoul National University  
Advisor: Dr. Cheongtag Kim
- 2000            B.A. in Psychology, Seoul National University  
Advisor: Dr. Cheongtag Kim

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**ACADEMIC POSITION**

- 2015-           Associate Professor, Department of Psychology, Boston College  
2008-2015      Assistant Professor, Department of Psychology, Boston College

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**PEER-REVIEWED JOURNAL ARTICLES**

- Jin, S. V., & **Ryu, E.** (2019). Celebrity fashion brand endorsement in Facebook viral marketing and social commerce: Interactive effects of social identification, materialism, fashion involvement, and opinion leadership. *Journal of Fashion Marketing and Management*, 23, 104-123. doi: 10.1108/JFMM-01-2018-0001
- Jin, S. V. & **Ryu, E.** (2019). Instagram fashionistas, luxury visual image strategies and vanity. *Journal of Product & Brand Management*, Vol. ahead-of-print. doi: 10.1108/JPBM-08-2018-1987
- Jin, S. V., Muqaddam, A., & **Ryu, E.** (2019). Instafamous and social media influencer marketing. *Marketing Intelligence and Planning*, 37, 567-579. doi: 10.1108/MIP-09-2018-0375
- Jin, S. V., **Ryu, E.**, & Muqaddam, A. (2019). Romance 2.0 on Instagram! "What Type of Girlfriend Would You Date?" *Evolutionary Psychology*, 17, 1-17. doi: 10.1177/1474704919826845

- Ford, J. H., DiBiase, H. D., **Ryu, E.**, Kensinger, E. A. (2018). It gets better with time: Enhancement of age-related positivity effect in the six months following a highly negative public event. *Psychology and Aging, 33*, 419-424. doi: 10.1037/pag0000250
- Hogan, J., Cordes, S., Holochwost, S., **Ryu, E.**, Diamond, A., & Winner, E. (2018). Is more time in general music class associated with stronger extra-musical outcomes in kindergarten? *Early Childhood Research Quarterly, 45*, 238-248. doi: 10.1016/j.ecresq.2017.12.004
- Jin, S. V. & **Ryu, E.** (2018). "The Paradox of Narcissus and Echo in the Instagram Pond" in Light of the Selfie Culture from Freudian Evolutionary Psychology: Self-Loving and Confident but Lonely. *Journal of Broadcasting & Electronic Media, 62*, 554-577. doi: 10.1080/08838151.2018.1474881
- Jin, S. V., **Ryu, E.**, & Muqaddam, A. (2018). Dieting 2.0!: Moderating effects of Instagrammers' body image and Instafame on other Instagrammers' dieting intention. *Computers in Human Behavior, 87*, 224–237. doi: 10.1016/j.chb.2018.06.001
- Ryu, E.** & Cheong, J. (2017). Comparing indirect effects in different groups in single-group and multi-group structural equation models. *Frontiers in Psychology: Quantitative Psychology and Measurement, 8*: 747. doi: 10.3389/fpsyg.2017.00747
- Ryu, E.** & Mehta, P. (2017). Multilevel factorial invariance in n-level structural equation modeling (nSEM). *Structural Equation Modeling, 24*, 936-959. doi: 10.1080/10705511.2017.1324311
- Ryu, E.** (2015). Multiple group analysis approach to testing group difference in indirect effects. *Behavior Research Methods, 47*, 484-493. doi: 10.3758/s13428-014-0485-8
- Ryu, E.** (2015). Multiple group analysis in multilevel structural equation model across level-1 groups. *Multivariate Behavioral Research, 50*, 300-315. doi: 10.1080/00273171.2014.1003769
- Ryu, E.** (2015). The role of centering for interaction of level-1 variables in multilevel structural equation models. *Structural Equation Modeling, 22*, 617-630. doi: 10.1080/10705511.2014.936491
- Snapp, S., **Ryu, E.**, & Kerr, J. (2015). The upside to hooking up: College students' positive hookup experiences. *International Journal of Sexual Health, 27*, 43-56. doi: 10.1080/19317611.2014.939247
- Ryu, E.** (2014). Factorial invariance in multilevel confirmatory factor analysis. *British Journal of Mathematical and Statistical Psychology, 67*, 172-194. doi: 10.1111/bmsp.12014
- Ryu, E.** (2014). Model fit evaluation in multilevel structural equation models. *Frontiers in Psychology: Quantitative Psychology and Measurement, 5*. doi: 10.3389/fpsyg.2014.00081
- Snapp, S., Lento, R., **Ryu, E.**, & Rosen, K. (2014). Why do they hook up? Attachment style and motives of college students. *Personal Relationships, 21*, 468-481. doi: 10.1111/per.12043
- Ryu, E.**, West, S. G., Sousa, K. H. (2012). Distinguishing between-person and within-person relationships in longitudinal health research: Arthritis and quality of life. *Annals of Behavioral Medicine, 43*, 330-342. doi: 10.1007/s12160-011-9341-6
- Snapp, S., Hensley-Choate, L., & **Ryu, E.** (2012). A body image resilience model for first-year college women. *Sex Roles, 67*, 211-221. doi: 10.1007/s11199-012-0163-1

Gerstein, E., Pedersen y Arbona, A., Crnic, K. A., **Ryu, E.**, Baker, B. L., & Blacher, J. (2011). Developmental risk and young children's regulatory strategies: Predicting behavior problems at age five. *Journal of Abnormal Child Psychology*, *39*, 351-364. doi: 10.1007/s10802-010-9471-5

**Ryu, E.** (2011). Effects of skewness and kurtosis on normal-theory based maximum likelihood test statistic in multilevel structural equation modeling. *Behavior Research Methods*, *43*, 1066-1074. doi: 10.3758/s13428-011-0115-7

West, S. G., **Ryu, E.**, & Kwok, O., & Cham, H. (2011). Multilevel modeling: Current and future applications in personality research. *Journal of Personality*, *77*, 427-446. doi: 10.1111/j.1467-6494.2010.00681.x \* Note: Top ten most read articles from the 2011 volume.

Bushman, B. J., Baumeister, R. F., Thomaes, S., **Ryu, E.**, Begeer, S., & West, S. G. (2009). Looking again, and harder, for a link between low self-esteem and aggression. *Journal of Personality*, *77*, 427-446. doi: 10.1111/j.1467-6494.2008.00553.x

**Ryu, E.** & West, S. G. (2009). Level-specific evaluation of model fit in multilevel structural equation modeling. *Structural Equation Modeling*. *16*, 583-601. doi: 10.1080/10705510903203466

**Ryu, E.**, West, S. G., & Sousa, K. H. (2009). Mediation and moderation: Testing relationships between symptom status, functional health, and quality of life in HIV patients. *Multivariate Behavioral Research*, *44*, 213-232. doi: 10.1080/00273170902794222

Sousa, K. H., Kwok, O., **Ryu, E.**, & Cook, S. W. (2008). Confirmation of the validity of the HAQ-DI in two populations living with chronic illnesses. *Journal of Nursing Measurement*, *16*, 31-42. doi: 10.1891/1061-3749.16.1.31

Sousa, K. H., **Ryu, E.**, Kwok, O., Cook, S. W., & West, S. G. (2007). Development of a model to measure symptom status in persons living with rheumatoid arthritis. *Nursing Research*, *56*, 434-440. doi: 10.1097/01.NNR.0000299850.29558.db

West, S. G. & **Ryu, E.** (2007). Assumptions and challenges of an idiographic-nomothetic approach to measurement: A Comment on Nesselrode, Gerstorf, Hardy and Ram. *Measurement: Interdisciplinary Research and Perspectives*, *5*, 259-263. doi: 10.1080/15366360701775995

Deng, S., Lopez, V., Roosa, M. W., **Ryu, E.**, Burrell, G. L., Tein, J. Y., & Crowder, S. (2006). Family processes mediating the relationship of neighborhood disadvantage to early adolescent internalizing problems. *Journal of Early Adolescence*, *26*, 206-231. doi: 10.1177/0272431605285720)

Roosa, M. W., Deng, S., **Ryu, E.**, Burrell, G. L., Tein, J. Y., Jones, S., Lopez, V., & Crowder, S. (2005). Family and child characteristics linking neighborhood context and child externalizing behavior. *Journal of Marriage and Family*, *67*, 515-529. doi: 10.1111/j.0022-2445.2005.00132.x

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## EDITORIAL

Kwok, O., Cheung, M., Jak, S., **Ryu, E.**, Wu, J. –Y. (2018). Editorial: Recent advancements in structural equation modeling (SEM): From both methodological and application perspectives. *Frontiers in Psychology*, *9*: 1936. doi: 10.3389/fpsyg.2018.01936

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**ENCYCLOPEDIA ARTICLE**

Kwok, O., West, S. G., & **Ryu, E.** (2010). Hierarchical linear modeling. In N. J. Salkind (Ed.) *Encyclopedia of Research Design*. Thousand Oaks, CA: Sage.

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**MANUSCRIPTS IN PROGRESS**

Jin, S. V. & **Ryu, E.** (Revised and resubmitted). Effects of parasocial interaction with Instagram profile sources and moderating effects of Instagram post types on social media marketing outcomes. *Journal of Retailing & Consumer Services*.

Jin, S. V. & **Ryu, E.** (invited to revise and resubmit). Predictors of Instagram usage behaviors, *Behaviour & Information Technology*.

Jin, S. V., **Ryu, E.**, & Muqaddam, A. (in progress). Social media influencer marketing.

Jin, S. V. & **Ryu, E.** (in progress). Predictors of luxury brand involvement.

**Ryu, E.** (in progress). Analysis of change with two time points.

**Ryu, E.** (in progress). Multilevel factorial invariance in ordered categorical measures.

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**UNPUBLISHED MANUSCRIPT**

**Ryu, E.** (2017). Mediation analysis with binary variables.

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**BOOK**

Kwok, O., **Ryu, E.**, Lai, M. H. C. (in progress). *Multilevel structural equation models. A practical guide*. Under contract with Sage publishing.

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**CONFERENCE PRESENTATIONS**

**Ryu, E.** (2018). *Analysis of change with two time points*. International Meeting of the Psychometric Society (IMPS) 2018, New York, NY.

Hogan, J., Cordes, S., Holochwost, S., **Ryu, E.**, Diamond, A., & Winner, E. (2017). *The effects of intensive general music class on kindergartners' executive functioning and self-perception*. Poster presented at the Biennial meeting of the Society for Research in Child Development, Austin, Texas.

**Ryu, E.** (2016). *Multilevel factorial invariance in ordered categorical measures*. The 4<sup>th</sup> Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong, China.

**Ryu, E.** & Yoon, M. (2016). *Multilevel factorial invariance in ordered categorical measures*. The 4<sup>th</sup> Texas Universities' Educational Statistics and Psychometrics (TUESAP) Meeting, College Station, Texas.

Fritz, M. S. & **Ryu, E.** (2016). *A comparison of bootstrap confidence intervals for multilevel mediation*. The 24<sup>th</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.

- Ryu, E.** (2014). *Multi-group analysis in multilevel structural equation modeling*. The 2<sup>nd</sup> Texas Universities' Educational Statistics and Psychometrics (TUESAP) Meeting, College Station, Texas.
- Ryu, E.** & Cheong, J. (2013). *Testing moderation of a categorical variable on indirect effects*. Poster presented at the 121<sup>st</sup> Annual Convention of the American Psychological Association, Honolulu, HI.
- Ryu, E.** (2012). *Interaction of level-1 variables in multilevel structural equation models*. The 77<sup>th</sup> Annual Meeting of the Psychometric Society, Lincoln, Nebraska.
- Ryu, E.** (2011). *Within-subject analysis of variance and generalized linear mixed model for binary outcome*. The 76<sup>th</sup> Annual and the 17<sup>th</sup> International Meeting of the Psychometric Society, Hong Kong, China.
- Ryu, E.** (2011). *Factorial invariance in multilevel confirmatory factor analysis*. The 8<sup>th</sup> International Amsterdam Multilevel Conference, Amsterdam, Netherlands.
- Ryu, E.** & West, S. G. (2010). *The effect of skewness and kurtosis on normal theory based test statistic in multilevel structural equation modeling*. Poster presented at the 75<sup>th</sup> Annual meeting of the Psychometric Society, Athens, GA.
- Pedersen y Arbona, A. & **Ryu, E.** (2009). *Positive parenting behaviors and the emergence of child behavior problems*. Poster presented at 2009 Society for Research in Child Development Biennial Meeting, Denver, CO.
- Ryu, E.** & West, S. G. (2009). *Level-specific evaluation of model fit in multilevel structural equation modeling*. The 1<sup>st</sup> Institute of Mathematical Statistics Asia Pacific Rim Meeting, Seoul, Korea.
- Pedersen y Arbona, A., Gerstein, E. D., & **Ryu, E.** (2008). *Patterns of resilient emotion regulation in young children: How regulation strategies relate to social competence under conditions of developmental risk*. The 41<sup>st</sup> Annual Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA.
- Ryu, E.**, West, S. G., & Sousa, K. H. (2008). *Combining mediation and moderation: Testing relationships between symptom status, functional health, and quality of life in HIV patients*. The 16<sup>th</sup> Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- Ryu, E.**, West, S. G., & Sousa, K. H. (2007). *Combining mediation and moderation: Testing relationships between symptom status, functional health, and quality of life in HIV patients*. The Fifth Annual Society of Multivariate Experimental Psychology Graduate Student Pre-conference, Chapel Hill, NC.
- Sousa, K. H., **Ryu, E.**, & Kwok, O. (2007). *Validating a measurement of symptom status using SEM*. Paper presented at the 50<sup>th</sup> Communication Nursing Research Conference, Western Institute of Nursing, Portland, Oregon.
- Sousa, K. H., **Ryu, E.**, & Kwok, O. (2006). *Validating a measurement of symptom status in persons living with RA using SEM*. Abstract presented at the 13<sup>th</sup> Annual Conference of the International Society for Quality of Life Research, Portugal.
- West, S. G., Wei, W., & **Ryu, E.** (2006). *Growth curve models: An introduction*. Workshop presented at the 86<sup>th</sup> Annual Convention of the Western Psychological Association, Palm Springs, CA.

MacKinnon, D. P., Yoon, M., & **Ryu, E.** (2004). *Evaluation of the proportion mediated effect size measure*. Abstract presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI.

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### INVITED TALK

April 2010      “Level-specific evaluation of model fit in multilevel structural equation modeling”  
Texas A & M University, College Station TX

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### WORKSHOP

March 2010      “Longitudinal growth modeling using SPSS Mixed”  
Graduate School of Social Work Research Workshop  
Boston College, Chestnut Hill MA

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### TEACHING

#### Courses instructor

Experimental Design and Statistics (Graduate; Fall 2009-2011)  
Introduction to Behavioral Statistics and Research I (Undergraduate; Fall 2011; Fall 2013; Fall 2016-2018)  
Analysis with Missing Data (Graduate; Fall 2015; Fall 2017)  
Multiple Regression (Graduate; Spring 2014-2016; Spring 2018-2019)  
Multivariate Statistics (Graduate; Spring 2009-2013)  
Statistics (Honors) (Undergraduate; Fall 2014; Fall 2015)  
Structural Equation Modeling (Graduate; Spring 2011; Spring 2013-2016; Spring 2018-2019)

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### DOCTORAL DISSERTATION COMMITTEE

Year indicates the time of completion.

In progress      Chuchu Cheng, Department of Psychology, Boston College  
2019                Jing Jiang, Measurement, Evaluation, Statistics, and Assessment, Lynch School of Education, Boston College  
2013                Brendan Murray, Department of Psychology, Boston College  
2013                Haesang Jeon, Graduate School of Social Work, Boston College  
2012                Alisha Holland, Department of Psychology, Boston College  
2012                Meena Andiappan, Carroll School of Management, Boston College  
2010                Thalia Goldstein, Department of Psychology, Boston College

### MASTER'S THESIS COMMITTEE

2017      Chuchu Cheng, Department of Psychology, Boston College  
2010      Brendan Murray, Department of Psychology, Boston College

### UNDERGRADUATE THESIS ADVISING

2010      Laurie Berarducci, Department of Psychology, Boston College

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### GRANTS

**Statistical consultant.** National Science Foundation. Project title: *Leveraging mPFC engagement to induce improvements in older adults' memory*. PI: Elizabeth Kensinger, Co-PI: Jaclyn Ford. September 2018-August 2021.

**Statistical consultant.** National Institute on Aging. Project title: *Mechanisms supporting encoding of self-referential and emotional information with age*. PIs: Angela Gutches, and Elizabeth Kensinger. September 2016-May 2019.

**Statistical advisor.** Massachusetts Cultural Council (5101331). Project title: *Effects of intensive ensemble music programs on children's cognitive and affective development*. PIs: Sara Cordes, Ellen Winner, and Adele Diamond. September 2015-July 2018.

**Principal investigator.** Research Incentive Grant, Boston College. Funded \$7500. Project title: Multilevel factorial invariance for ordinal measures. July 2013-May 2014.

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## AWARDS AND HONORS

|           |  |
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| Fall 2012 | Faculty Fellowship, Boston College   |
| 2007      | Travel grant to attend Society of Multivariate Experimental Psychology Graduate Student Pre-conference |
| 2005      | Travel scholarship to attend Mplus workshop, Johns Hopkins University                                  |
| 2000      | Graduate with honors, Seoul National University  |

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## PROFESSIONAL SERVICE

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| 2019-     | Guest Editor, <i>Cultural Diversity and Ethnic Minority Psychology</i> , Special issue on innovative theory and methods for the next generation of diversity and inclusion sciences   |
| 2019-     | Consulting Editor, <i>Cultural Diversity and Ethnic Minority Psychology</i>   |
| 2016-2018 | Topic Associate Editor, Research Topic: Recent advancements in structural equation modeling (SEM): From both methodological and application perspectives. <i>Frontiers in Psychology: Quantitative Psychology and Measurement</i> |
| 2016      | Reviewer, Multilevel Modeling SIG (Special Interest Group) Proceedings, 2017 American Educational Research Association (AERA) Annual Meeting  |
| 2015-     | Statistical and Methodological Advisor (SMA), <i>Journal of School Psychology</i>   |
| 2008      | Proposal reviewer for The Sixth Annual Society of Multivariate Experimental Psychology Graduate Student Pre-conference  |

Ad Hoc reviewer: *American Educational Research Journal*; *Advances in Methods and Practices in Psychological Science*, *Behavior Research Methods*; *BMC Neuroscience*; *British Journal of Mathematical and Statistical Psychology*; *Communications in Statistics*; *Computational Statistics and Data Analysis*; *Cultural Diversity and Ethnic Minority Psychology*; *Developmental Psychology*; *Educational and Psychological Measurement*; *Frontiers in Psychology: Quantitative Psychology and Measurement*; *Journal of Abnormal Psychology*; *Journal of Counseling Psychology*; *Journal of Consulting and Clinical Psychology*; *Journal of Early Adolescence*; *Journal of Personality*; *Journal of School Psychology*; *Learning and Individual Differences*; *Methodology*; *Multivariate Behavioral Research*; *Psychological Assessment*; *Psychological Methods*; *Psychometrika*; *Sociological Methods and Research*; *Structural Equation Modeling*

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## DEPARTMENTAL AND UNIVERSITY COMMITTEES

Adjunct faculty search committee (2009)

Faculty fellowship and award nominating committee (2017-2018)  
Faculty technology contact (2009-2016)  
Fulbright scholarship program interviewer (2009; 2010; 2013)  
Future directions committee (2018-2020)  
Goals committee (2008-2010)  
Graduate admission and recruitment committee (2009-11; 2014-2020)  
Graduate evaluation committee (2010-2011; 2013-2015)  
Graduate program committee (2010-2011; 2012-2014; 2018-2020)  
Quantitative and Computational Concentration committee (2018-)  
Quantitative and Computational Faculty Search committee (Chair, 2019)  
Quantitative search committee (co-chair) (2010; 2011)  
Statistical consulting committee (2008-; Chair, 2008-2015)  
Technological and methodological training committee (2017-)  
Tenure report committee (2017)  
Welcoming committee for faculty (2009-2010)

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**PROFESSIONAL AFFILIATIONS**

American Psychological Association  
American Psychological Association, Division 5 Quantitative and Qualitative Methods  
Psychometric Society