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| **Curriculum Vitae**  ***Eunju Jung, Ph.D.***  Visiting Research Associate  Center for Evaluation and Education Policy  School of Education, Indiana University-Bloomington  3372 Oaklawn Cir., Bloomington, IN 47401  Cell: (214) 315-9719: [doduli@hotmail.com](mailto:doduli@hotmail.com) |

**EDUCATION**

Texas A & M University, College Station, Texas

Doctor of Philosophy in Educational Psychology August 2014

*Focus:* Research, Measurement, & Statistics

*Thesis Title:* Detecting the Violation of Factorial Invariance with an Unknown Reference Variable (*Co-Advisors:* Drs. Myeongsun Yoon & Victor Willson)

Korea University, Seoul, South Korea

Bachelor of Arts in Linguistics 2004

PUBLICATIONS

***Revision Requested or Under Review***

**Jung, E.** & Yoon, M. (resubmitted with revisions). Comparisons of three empirical methods for partial factorial invariance: forward, backward, and factor-ratio tests. *Structural Equation Modeling*.

# Jung, E., Zhou, Y., Arroyave, R., Radovic, R., & Shamberger, P. (requested revisions). Psychometric evaluation of the Material Concepts Inventory. *Advances in Engineering Education*.

# Chen, L.S., Li, M., Amuta, A., Xu, L., Dhar, S., Talwar, D., & Jung, E. (under review). Autism genetic testing information needs among parents of affected children: A qualitative study, Patient Educational and Counseling.

# *Published or Accepted*

Zhou, Y., **Jung, E.**, Arroyave, R., Radovic, R., & Shamberger, P. (2015). The impact of course-wide research experience on student learning and attitude: application to an introductory materials science course. *International Journal of Engineering Education, 31* (6), 1491-1503.

Chen, L. S., Goodson, P., **Jung, E.**, Popoola, O., Kwok, O. M., & Muenzenberger, A. (2015). A Survey of Texas Health Educators' Family Health History-based Practice. *American Journal of Health Behavior*, 39(5), 632-639.

Castillo, L. G., Cano, M. A., Yoon, M., **Jung, E.**, Brown, E. J., Zamboanga, B. L., Kim, S. Y., Schwartz, S. J., Huynh, Q.-L., Weisskirch, R. S., & Whitbourne, S. K. (2015, March 2). Factor structure and factorial invariance of the Multidimensional Acculturative Stress Inventory. *Psychological Assessment*. *Advance online publication.* http://dx.doi.org/10.1037/pas0000095

Piña-Watson, B., Castillo, L. G., **Jung, E**., Ojeda, L., & Castillo-Reyes, R. (2014). The Marianismo Beliefs Scale: Validation with Mexican American adolescent girls and boys. *Journal of Latina/o Psychology, 2*(2), 113-130.

Chen, L.S., Xu, L., Dhar, S., Li, M., Talwar, D. & **Jung, E.** (2014). Autism spectrum disorder: a qualitative study of attitudes toward prenatal genetic testing and termination decisions of affected pregnancies. *Clinical Genetics.* DOI: 10.1111/cge.12504

Chen, L.S., Li, C., Wang, C.H., Amuta, A., Li, M., Huang, T.Y., Dhar, S.U.,Talwar, D. & **Jung, E.** (2014). Autism spectrum disorders: perceptions of genetic etiology and recurrence risk among Taiwanese parents of affected children. *Clinical Genetics*. DOI: 10.1111/cge.12514

Chen, L. S., Goodson, P., **Jung, E.**, Muenzenberger, A., Xu, L., Kwok, O. M., & Li, M. (2013). Effectiveness of a web-based genomics training for health educators in Texas. *Genetics in Medicine, 16*, 271-278.

Goodson, P., Chen, L. S., Muenzenberger, A., Xu, L., & **Jung, E.** (2013). Genomics education for health educators in Texas: The family health history training program. *Public Health Genomics*, *16*(5), 233-240.

***In Progress***

**Jung, E.** &Yoon, M. Two-step approach for partial factorial invariance: selecting a reference variable and locating noninvariant variable(s).

# Jung, E., Shamberger, P., Arroyave, R., & Radovic, R. Dissemination Efforts, Adoption, and Effective Implementation of Active Learning Pedagogy.

# Jung, E. The impact of misspecification in partial factorial invariance testing.

# Jung, E. Impact of false positive and false negative in Estimating Latent Means under Partial Factorial Invariance

Yoon, M. & **Jung, E.** Problems of standardization identification method in factorial invariance models.

Kim, M., **Jung, E.**, Miller, R. J., Goddard, Y. L., Jacob, R., & Goddard, R. D. Exploring the underlying factor structures of principal leadership and school climate measures in school leadership improvement study.

**SELECTED CONFERENCE PRESENTATIONS**

**Jung, E.** & Yoon, M**.** (accepted for the 2016 annual meeting). Two-step approach for testing factorial invariance: selecting a reference variable and locating noninvariant variable, *The Annual Meeting of the American Educational Research Association*, Washington D.C.

Shamberger, P.J., **Jung,** **E.**,Zhou, Y., Arroyave, R., & Radovic, M. (March, 2015). Psychometric analysis of the Materials Concept Inventory: limitations of the principle assessment tool for introductory materials science courses (oral), *1st Mid-Years Engineering Experience Conference (MYEEC)*, College Station, TX (2015).

Shamberger, P.J., **Jung,** **E.**,Zhou, Y., Arroyave, R., & Radovic, M. (March, 2015). Towards more effective education in materials science for engineering students (oral), *Materials Science & Engineering Symposium*, TAMU-Q, Doha, Qatar.

Chen, L.S., Goodson, P., **Jung, E.**, Muenzenberger, A., Li, M., Xu, L. & Talwar, D. (April, 2015). Family health history: attitudes, self-efficacy, intention, knowledge and practice among Texas health educators. *36th Society of Behavioral Medicine Annual Meeting*, San Antonio, TX.

Zhao, S., Huang, T.Y., **Jung, E.**, Ye, J., Xu, L., , Wu, Y.Y., Tsai, F.C., Talwar, D. & Chen, L.S. (March, 2015). Intention of undergoing prenatal genetic testing among Taiwanese parents of children with autism spectrum disorders*. 15th American Academy of Health Behavior (AAHB) Annual Meeting,* San Antonio, TX.

**Jung, E.** & Yoon, M**.** (2012). Problems of standardization identification method in testing measurement invariance through a multi-group confirmatory factor analysis. *The Annual Meeting of the American Educational Research Association*, Vancouver, British Columbia, Canada.

Pilant, M., Hall, R. & **Jung, E.** (2012). Comprehensive statistical analysis of a Mathematics Placement Test. *The Annual Meeting of the Society for Information Technology and Teacher Education International*, Austin, Texas.

**PROFESSIONAL EXPERIENCE**

***Post-doctoral Research Associate***  Oct. 2014 – Sep. 2015

Project of the Institute for Engineering Education and Innovation (IEEI)

Material Science & Engineering Department

Texas A & M University

* Manage a large-scale institutional data and conduct statistical analyses including psychometric analysis and effectiveness of different instructional styles on the engineering undergraduate students’ achievement
* Involve in multiple papers for publications and conference presentations
* Disseminating active learning pedagogy to instructors of an introductory materials and science course through collaborative efforts: a case study through a mixed method approach
* Psychometric evaluation on the Material Concept Inventory under both classical test theory and item response theory
* Effective teaching method for an introductory materials science class: a mixed-method study

***Graduate Research Assistant***

* Health and Kinesiology Department Summer 2012, 2013-2014

Texas A & M University

Principal Investigator: Lei-shin Chen, Ph.D.

Funded by the Cancer Prevention Research Institute of Texas

“*Development, Implementation, and Evaluation of a Cancer Genomics Training Program for Texas Health Educators”*

* Conducted data analyses including psychometric evaluations, structural equation modeling, and evaluation of program impact
* Wrote up the method and results for the multiple publications and conference presentations
* Educational Administration and Human Resource 2012-2013

Texas A & M University

Principal Investigator: Yvonne Goddard, Ph.D.

School Leadership Improvement Study

“A Randomized Control Trial to Assess the Efficacy of the Balanced Leadership

Program”

- Conducted data analyses including psychometric evaluation, structural equation modeling, multilevel modeling, latent growth modeling, and psychometric analyses on four waves of principal efficacy, teacher efficacy, and student academic achievement data

***Teaching Assistant*** 2011-2013

Department of Educational Psychology

Texas A & M University

* *Educational Statistics*
* *Experimental Design in Education I & II*
* *Item Response Theory*
* *Advanced Psychometric Theory*

***Statistical Consultant***

Educational Research and Evaluation Laboratory (EREL) 2009-2010

Department of Educational Psychology

Texas A&M University.

**TECHNICAL SKILLS**

SAS/SPSS/STATA/R

SEM related software such as Mplus, AMOS, LISREL

HLM related software such as HLM

IRT related software such as IRT Pro, PASCAL, [BILOG-MG 3](https://courses.cehd.tamu.edu/course/view.php?id=143&topic=25)

Excel /Advanced word processing / PowerPoint

**LIST OF COMPLETED QUANTITATIVE COURSES**

Experimental Design I & II using SPSS

Theory of Item Response Theory using IRTPRO, BILOG

Advanced Psychometric Theory using SAS, M*plus*

Theory of Hierarchical Linear Modeling using SAS, STATA, SPSS, HLM

Theory of Structural Equation Modeling using M*plus*, LISREL

Advanced Structural Equation Modeling using M*plus*, LISREL

Longitudinal Data Analysis using SAS, M*plus*

Applied Categorical Data Analysis using SAS

Statistics in Research I & II using SPSS, SAS, JMP

**SCHOLARSHIP**

***College & IDP Top off Scholarship***  Fall 2012 & Spring 2013

Awarded by the Department of Educational Psychology

Texas A & M University

***Travel Scholarship***  Spring 2012

Awarded by the Department of Educational Psychology

Texas A & M University

**PROFESSIONAL AFFILIATION**

***American Educational Research Association (AERA)***  2012-present

**PROFESSIONAL TRAINING**

***Missing Data Analysis*** (by Dr. Craig Enders at Arizona State University) Summer 2011

Provided in the Summer Statistics Workshop

Texas A & M University.