

# Ray E. Reichenberg

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## Employment

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<i>Title</i>	<i>Institution/Company</i>	<i>Year(s)</i>
Research Assistant Professor	University of Nebraska – Lincoln <i>Nebraska Center for Research on Children, Youth, Families &amp; Schools</i>	2019 -
Postdoctoral Research Scientist	The George Washington University <i>Graduate School of Education and Human Development</i>	2018 – 2019
Research/Teaching Assistant	Arizona State University <i>The Sanford School</i>	2010 - 2018
Intern (summer)	Arizona Department of Education <i>Research &amp; Evaluation</i>	2015
Gifted/Talented Specialist	Tempe Elementary School District	2008 - 2010
Classroom Teacher	Tempe Elementary School District	2007 - 2008

## Education

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<i>Degree</i>	<i>Program (Specialization)</i>	<i>Institution</i>	<i>Year</i>
Ph.D.	Family & Human Development (Measurement/Statistical Analysis)	Arizona State University	2018
M.A.	Educational Psychology (Measurement/Methodological Studies)	Arizona State University	2013
M.Ed.	Curriculum & Instruction (Elementary Education)	Arizona State University	2009
B.S.	Marketing	Arizona State University	2003

## Terminal Projects

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Dissertation: *The Impact of Information Quantity and Quality on Parameter Estimation for a Selection of Dynamic Bayesian Networks with Latent Variables* (approved: July 2018)

Co-chairs: Dr. Roy Levy; Dr. Natalie Eggum-Wilkens

Thesis: *A Comparison of DIMTEST and Generalized Dimensionality Discrepancy Approaches to Assessing Dimensionality in Item Response Theory* (approved: July 2013)

Co-chairs: Dr. Roy Levy; Dr. Marilyn Thompson

## Publications (in press & published)

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**Reichenberg, R.** (2018). Dynamic Bayesian networks in educational measurement: Reviewing and advancing the state of the field. *Applied Measurement in Education, 31*(4), 335-350. DOI: 10.1080/08957347.2018.1495217.

Lindstrom-Johnson, S., **Reichenberg, R.**, Bradshaw, C., Haynie, D., & Cheng, T.L. (2016). Parent and adolescent discrepancies in perceptions of violence: Covariates and outcomes. *Journal of Youth and Adolescence, 45*(10), 2125-2137. DOI: 10.1007/s10964-016-0505-3.

Lai, K., Green, S.B., Levy, R., **Reichenberg, R.**, Xu, Y., Thompson, M.S., Yel, N., Eggum-Wilkens, N.D., Kunze, K.L., & Iida, M. (2016). Assessing model similarity in structural equation modeling. *Structural Equation Modeling: An Interdisciplinary Journal, 23*(4), 491-506. DOI: 10.1080/10705511.2016.1154464.

Eggum-Wilkens, N.D., **Reichenberg, R.E.**, Eisenberg, N., & Spinrad, T. (2016). Components of effortful control and relations with children's shyness. *International Journal of Behavioral Development, 40*(6), 544-554. DOI: 10.1177/0165025415597792.

## Manuscripts Under Review (alphabetical)

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Corry, M., **Reichenberg, R.E.**, & Dardick, W. (under review). An exploratory study of self-efficacy for K-12 online educators.

Jager, J., Xia, Y., **Reichenberg, R.E.**, Putnick, D.L., & Bornstein, M.H. (under review). Improving the generalizability of psychological research through the increased use of homogeneous convenience samples: A Monte Carlo simulation.

Kurz, A., **Reichenberg, R.E.**, Elliott, S.N., & Yel, N. (under review). Opportunity-to-learn performance levels and student achievement growth.

Lindstrom-Johnson, S., **Reichenberg, R.E.**, Shukla, K., Waasdorp, T., & Bradshaw, C. (under review). Improving the measurement of school climate: A novel application of item response theory.

**Reichenberg, R.E.**, Levy, R. (under review). Considerations for fitting dynamic Bayesian networks with latent variables: A Monte Carlo study.

### **Manuscripts in Preparation (alphabetical)**

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Dardick, W., **Reichenberg, R.E.**, & Corry, M. (in preparation). A meta-analysis of the use and utility of process data in digital learning research.

Dardick, W., **Reichenberg, R.E.**, Corry, M., & Choi, J. (under review). The Teacher Empowered Assessment Framework: Leveraging process data to link large-scale and classroom assessment.

**Reichenberg, R.E.**, Levy, R., Dardick, W., & Corry, M. (in preparation). A review of methods for modeling psychometrically rich assessment data.

### **Research Presentations**

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**Reichenberg, R.E.** (2019, April). *Considerations for fitting dynamic Bayesian networks with latent variables: A Monte Carlo study*. Presented at the annual meeting of the National Council for Measurement in Education, Toronto, Ontario, Canada.

**Reichenberg, R.E.** (2016, April). *Performance of DIMTEST and generalized dimensionality discrepancy statistics for assessing unidimensionality*. Presented at the annual meeting of the National Council for Measurement in Education, Washington D.C.

**Reichenberg, R.**, Yel, N., & Kurz, A. (2015, April). *Setting opportunity-to-learn standards for effective teaching*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Jager, J., **Reichenberg, R.E.**, Putnick, D.L., & Bornstein, M.H. (2015, March). *More than just convenient: The scientific merits of homogenous convenience samples*. Presented at the bi-annual meeting of the Society for Research in Child Development, Philadelphia, PA.

Green, S.B., Lai, K., Levy, R., Xu, Y., Yel, N., Thompson, M.S., Eggum-Wilkins, N., Kunze, K., Iida, M., & **Reichenberg, R.**, (2014, April). *Assessing model similarity in structural equation modeling*. Presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.



VOCTEC Program: Research Associate (Assessment & Program Evaluation) 2011  
USAID (#AID-OAA-L-11-00005 & #AID-492-LA-12-00002)  
Total funding: approx. \$10,000,000

Understanding Emergent Processes Grant: Graduate Assistant 2009  
National Science Foundation (#0910115)  
Total funding: \$674,180

### **Service Activities/Leadership Positions**

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Graduate Student Committee 2014-2016  
American Educational Research Association – Div. D

Graduate Student Issues Committee 2014-2016  
National Council on Measurement in Education

Membership Committee – Graduate Student Liaison 2013-2014  
American Educational Research Association

Early Career Scholar Award Committee – Graduate Student Liaison 2011-2012  
American Educational Research Association

### **Review & Editorial**

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Conference Proposal Reviewer 2013-2019  
National Council on Measurement in Education

Grant Reviewer 2012-2015  
ASU Graduate and Professional Student's Association

### **Software Skills**

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Fluent: R/S+, SPSS, Mplus, WinBUGS/JAGS, Netica, Adobe Creative Suite, Microsoft Office  
Competent: Python, SAS, BayesiaLab, IRTPRO, FlexMIRT, Stata, STAN (via R), NetLogo, SQL, TensorFlow, XML/JSON

### **Professional License(s)**

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Arizona State Teaching Certificate Expires: 2021  
Grades K-8; Structured English Immersion endorsement

### **Workshops & Trainings Attended**

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*Bayesian Networks in Educational Assessment*, Preconference workshop hosted by the National Council for Measurement in Education, Chicago, IL: April 2015.

*New England Complex Systems Institute (NECSI) Summer Program, Boston, MA: Summer 2012.*

**Professional Affiliations**

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Psychometric Society	2010-Present
American Educational Research Association (Division D)	2011-Present
National Council on Measurement in Education	2011-Present
American Psychological Association (Division 5)	2013-Present