Ray E. Reichenberg, Ph.D. rreichenberg@gmail.com

Employment

Title		Institution/Company	Year(s)
Senior Resea	Research Fellow University of Otago Educational Assessment Research Unit - College of Education		2023 –
Director of Psychometrics and Behavioral Research		Southern New Hampshire University Office of Product and Program Innovation	2022 – 2023
Research Assistant Professor		University of Nebraska – Lincoln Nebraska Center for Research on Children, Youth, Families & Schools	2019 - 2022
Postdoctoral Research Scientist		The George Washington University Graduate School of Education and Human Development	2018 – 2019
Research/Teaching Assistant		Arizona State University The Sanford School	2010 - 2018
Intern (summer)		Arizona Department of Education Research & Evaluation	2015
Gifted/Talented Specialist		Tempe Elementary School District	2008 - 2010
Classroom Teacher		Tempe Elementary School District	2007 – 2008
ESL Instructor		NOVA Group, Japan	2004 – 2006
Education			
Degree	Program (Sp	ecialization) Institution	Year
Ph.D.	•	uman Development Arizona State University nt/Statistical Analysis)	2018
M.A.	Educational Psychology Arizona State University (Measurement/Methodological Studies)		2013
Curriculun	n Vitae (Undate	ed: 9/2023)	Page 1 of 8

M.Ed.	Curriculum & Instruction	Arizona State University	2009
	(Elementary Education)		

B.S. Marketing Arizona State University 2003

Terminal Projects

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

Published Manuscripts

- Nelson, R., **Reichenberg, R.E.**, Vu, P. (2022). An evaluation of quality of life for former gifted program participants in Vietnam. *Gifted & Talented International*. https://doi.org/10.1080/15332276.2022.2049020
- **Reichenberg, R.E.**, Levy, R., Clark, A. (2022). Considerations for fitting dynamic Bayesian networks with latent variables: A Monte Carlo study. *Applied Psychological Measurement*, 46(2). DOI: https://doi.org/10.1177/01466216211066609
- Corry, M., Dardick, W.R., & **Reichenberg, R.E.** (2021). An exploratory study of self-efficacy for K-12 online teachers. *Quarterly Review of Distance Education*, 22(2), 1-13.
- Rudasill, K.M., **Reichenberg, R.E.**, Eum, J., Barrett, J., Joo, Y., Wilson, E., & Sealy, M. (2020). Promoting higher quality teacher-child relationships: The INSIGHTS intervention in rural schools. *International Journal of Environmental Research and Public Health*, *17*(24). DOI: https://doi.org/10.3390/ijerph17249371
- Kurz, A., **Reichenberg, R.E.**, Elliott, S.N., & Yel, N. (2020). Opportunity-to-learn performance levels and student achievement growth. *Teaching and Teacher Education, 94*. DOI: https://doi.org/10.1016/j.tate.2020.103092
- Lindstrom Johnson, S., **Reichenberg, R.E.**, Shukla, K., Waasdorp, T., & Bradshaw, C. (2019). Improving the measurement of school climate using item response theory. *Educational Measurement: Issues and Practice*, *38*(4), 99-107. DOI: https://doi.org/10.1111/emip.12296
- **Reichenberg, R.** (2018). Dynamic Bayesian networks in educational measurement: Reviewing Curriculum Vitae (Updated: 9/2023)

 Page 2 of 8

- and advancing the state of the field. *Applied Measurement in Education*, 31(4), 335-350. DOI: https://doi.org/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: https://doi.org/10.1007/s10964-016-0505-3
- Lai, K., Green, S.B., Levy, R., **Reichenberg, R.**, Xu, Y., Thompson, M.S., Yel, N., Eggum-Wilkins, 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: https://doi.org/10.1080/10705511.2016.1154464
- Eggum-Wilkins, 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: https://doi.org/10.1177/0165025415597792

Research Presentations

- Rudasill, K.M., **Reichenberg, R.E.**, Eum .J., Barrett, J., Wilson, E., Joo, Y., & Sealy M.A. (2023, October). *The effects of INSIGHTS on developmental trajectories of children's temperamental regulation*. Accepted for presentation at the Occasional Temperament Conference, Quebec, Canada.
- Eum, J., **Reichenberg, R.E.**, Rudasill, K., Barrett, J., Joo, Y., Sealy, M., Nugent, G., Kugler, K., Rejman, E., & Adams, N. (2023, March). *The effects of INSIGHTS on developmental trajectories of children's self-regulation skills*. Presented at the biennial meeting of the Society for Research in Child Development, Salt Lake City, UT.
- Baker, A.L., Forster, D.E., **Reichenberg, R.E.**, Neubauer, C.E., Fitzhugh, S.M., & Krausman, A. (2022, February/March). *Toward a causal modeling approach for trust-based interventions in human-autonomy systems*. Presented at the 36th Association for the Advancement of Artificial Intelligence Conference on Artificial Intelligence, virtual.
- **Reichenberg, R.E.**, Dardick, W.R., & Choi, J. (2020, August). Assessing teachers as evaluators of students within the Teacher Empowered Assessment Framework. Presented at the annual meeting of the American Psychological Association, Washington, D.C..
- **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 biannual 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.
- Brem, S.K., Sinatra, G.M., Stump, G.S., Heddy, B., Nelson, K., & **Reichenberg, R.E.** (2013, August). *From molecules to mammals: Domain specificity in reasoning about emergent systems.* Presented at the 15th Biennial Conference of the European Association for Research in Learning and Instruction, Munich, Germany.
- Stump, G.S., Brem, S.K., Sinatra, G.M., **Reichenberg, R.E.**, & Heddy, B., Muto-Nelson, K. (2013, August). *Triangulating ants, protector geese, and slime mold armies: Routes to misconceptions about emergence*. Presented at the 15th Biennial Conference of the European Association for Research in Learning and Instruction, Munich, Germany.
- Brem, S.K., Stump, G.S., Sinatra, G.M., **Reichenberg, R.E.**, & Heddy, B. (2012, August). *Misconceptions regarding emergent phenomenon vary by domain*. Presented at the 34th Annual Meeting of the Cognitive Science Society, Sapporo, Japan.

Invited Talks & Local Presentations

- **Reichenberg, R.E.** (2021, February). *Modern psychometric approaches for diagnostic assessment*. Presented as part of the 2020/21 Methodology Applications Series at the University of Nebraska Lincoln, Lincoln, Nebraska.
- **Reichenberg, R.E.** (2020, March). *Psychometric considerations for technology-enhanced assessments*. Invited talk presented to the Center for Brain, Biology, and Behavior at the University of Nebraska Lincoln, Lincoln, Nebraska.

Reichenberg, R.E. (2019, November). *Considerations for fitting dynamic Bayesian networks with latent variables*. Invited talk presented at the University of Nebraska – Lincoln, Lincoln, Nebraska.

Reichenberg, R.E. (2019, November). *Psychometric considerations for technology-enhanced assessments*. Invited talk presented at the University of Nebraska – Lincoln, Lincoln, Nebraska.

Academic Teaching Experience (Instructor of Record)

Academic Teaching Experience (instructor of Record)					
Introduction to Educational and Psychological Measurement (G)	University of Nebraska - Lincoln	2021			
Social Statistics I (UG)	Arizona State University	2013-2017			
Introductory Applied Statistics (UG)	Arizona State University	2011-2012			
Funded Projects					
The Impacts of COVID-19 on Educators a (Key Personnel) Nebraska Department of Education Total funding: \$49,999 Status: Completed	nd Student Learning	2021			
STEM Lesson Creation Coaching Framew of K-5 Teachers Implementing the NGSS (US Department of Agriculture (SBI Total funding: \$600,000 (subaward: Status: Completed	2020 - 2022				
An Exploratory Study to Improve Measure for Online Learners (<i>PI</i>) Layman Seed Award Program, Univ Total funding: \$10,000 Status: <i>Completed</i>		2020 - 2021			
The Effects of COVID-19 on Education in for Recovery (<i>Key Personnel</i>) Office of Research & Economic Degrant, University of Nebraska - Line Total funding: \$50,000 Status: <i>Completed</i>	velopment Rapid Response	2020 - 2021			
Testing the Efficacy of INSIGHTS for Pro	moting Positive Learning	2019-2022			

Learning Environments and Academic Achievement in Nebraska: A Replication Study (Key Personnel) Institute of Education Sciences (R305A180290) Total funding: \$3,299,957 Status: *Completed* Eager: Maker – Maker Fridays – Engaging Rural and Underrepresented 2020 High School Students in Pre-engineering Design and Creativity (Subaward; PI) National Science Foundation (#1723704) Total funding: \$281,103 Status: *Completed* 4-H Common Measures (PI) 2020 National 4-H Council Total funding: \$110,405 Status: Completed **Funding Proposals** Lead Nebraska 2021 Kern Family Foundation (*Co-I*) Total funding requested: \$4,060,000 Status: Not funded A Comparative Embedded Case Study of Small Rural Districts that 2021 Outperform Expectations (Co-I) Spencer Foundation Total funding requested: \$50,000 Status: Not funded Effects of COVID-19 on School System Operation and Student 2020 Educational Outcomes (Co-I) Institute of Education Sciences Total funding requested: \$1,700,000 Status: *Not funded* STEMulating Equity in Rural Schools Through Immersive 2020 Learning Experiences (Co-PI) National Science Foundation (ITEST) Total funding requested: \$1,500,000 Status: *Not funded* Neurocognitive Predictors of Readiness for Reading-to-Learn (*Co-I*) 2020 National Institutes of Health (R01) Total funding requested: \$1,938,422 Status: *Not funded*

Service Activities/Leadership Positions

Graduate Faculty Department of Educational Psychology University of Nebraska – Lincoln	2021
Nebraska Methodology Workshop Series – Organizer University of Nebraska – Lincoln	2021
Faculty Fellow for Student Success University of Nebraska – Lincoln	2021-2022
Student Conduct Board – Member University of Nebraska – Lincoln	2020 – 2023
Student Conduct Appeals Board – Member University of Nebraska – Lincoln	2020 – 2023
Website Committee – Member National Council on Measurement in Education	2020-Present
Graduate Student Committee – Member American Educational Research Association – Div. D	2014-2016
Graduate Student Issues Committee – Member National Council on Measurement in Education	2014-2016
Membership Committee – Graduate Student Liaison American Educational Research Association	2013-2014
Early Career Scholar Award Committee – Graduate Student Liaison American Educational Research Association	2011-2012
Review & Editorial	
Ad Hoc Reviewer Applied Measurement in Education Asia Pacific Education Review Journal of Social and Personal Relationships Applied Psychological Measurement Measurement: Interdisciplinary Research and Perspectives Journal of Educational Measurement	2020-2022 2020 2020 2021 2022-2023 2022
Conference Proposal Reviewer American Educational Research Association American Psychological Association National Council on Measurement in Education Curriculum Vitae (Updated: 9/2023)	2021 – 2022 2019 – 2021 2013 – 2022 Page 7 of 8

Professional Licenses / Certificates

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

Professional Affiliations

Psychometric Society National Council on Measurement in Education	2010-Present 2011-Present
American Psychological Association (Division 5)	2013-Present
Society for Learning Analytics Research	2022-Present

Software Skills

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