

Wyatt Read

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Education

Ph.D., Educational Statistics and Research Methods | School of Education, University of Delaware | Expected Graduation: Spring 2028 | Newark, DE |

- Primary advisor: Dr. Sanford Student
- Secondary advisor: Dr. Ethan McCormick

B.S. Psychology | December 2023 | Southern Utah University | Cedar City, UT

Peer-Reviewed Publications

- Student, S.R. & **Read, W.** (2025). Applying Bayesian checks of cancellation axioms in limited samples. *Behavior Research Methods*.
 - Hermansen, G., **Read, W.**, & McFadden, P. (2023). Gender stereotypes in parents' toy preferences. *SUU Undergraduate Journal of Psychological Science*.
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Preprints and Papers under Review and Revision

- Student, S.R. & **Read, W.** Interval scales in the wild: A large-scale evaluation of the viability of Rasch models for producing interval scales. *Journal of Mathematical Psychology*. (Proposal; submitted).
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Papers under Development

- **Read, W.**, Student, S.R., & McCormick, E. Penalized latent curve models for selecting linear versus nonlinear growth trajectories.
 - **Read, W.**, Student, S.R., & McCormick, E. Complications in the assessment of measuring invariance in continuous indicators: Inflated Type 1 errors in automatic anchor item selection using regularization.
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Other Written Works

- Hermansen, G. & **Read, W.** (2023). No, you can't play with that toy! Gender norms, stereotypes, and child toy selection. *Psi Chi: Psychology in the Headlines*.
<https://www.psichi.org/blogpost/987366/493277/No-You-Can-t-Play-With-That-Toy-Gender-Norms-Stereotypes-and-Child-Toy-Selection>

Conference Papers and Presentations

- **Read, W.**, Student, S.R. & E.M. McCormick (2026). *Penalized latent curve models for selecting linear versus nonlinear growth trajectories*. Poster presentation at the Modern Modeling Methods (M³) Conference. New York City, NY.
- **Read, W.**, Student, S.R. & E.M. McCormick (2026). *On what basis? Regularized latent basis model*. Paper presentation at the College of Education and Human Development's Steele Symposium. Newark, DE.
- **Read, W.**, Student, S.R. & E.M. McCormick (2025). *Using Regularized MNLFA to Detect Differential Item Functioning*. Poster presentation at the University of Delaware Data Science Institute's Data Science Symposium. Newark, DE.
- Student, S.R., Shear, B.R. & **W. Read** (2025). *Communicating Effect Sizes to Teachers: A Replication in the U.S.* Paper presentation at the NCME Annual Meeting, Denver, CO.
- Student, S.R. & **W. Read** (2025). *Are interval scales using the Rasch model plausible for researchers?* Paper presentation at the International Objective Measurement Workshop, Denver, CO.
- Student, S.R. & **W. Read** (2025). *Applying Bayesian checks of cancellation axioms in limited samples*. Poster presentation at the College of Education and Human Development's Steele Symposium. Newark, DE.
- Lyman, M., **Read, W.**, & P. McFadden. (2023). *Exercise and Eating Disorders in SUU Students*. Oral presentation at the Southern Utah University Psychology Research Symposium, Cedar City, UT.
- **Read, W.**, Albright-Pierce, M., & S. Cole. (2023). *Perceptions of Success, Stress, and Well-being Based on Balance and Gender*. Poster presentation at the Rutgers Research Intensive Summer Experience Symposium, New Brunswick, NJ.
- **Read, W.**, Albright-Pierce, M., & S. Cole. (2023). *Perceptions of Well-Being Based on Balance and Gender*. Oral presentation at the Rutgers Research Intensive Summer Experience Data Blitz, New Brunswick, NJ.
- **Read, W.**, Ball, S., & B. Koenig. (2023). *Replicability of Mental Health Findings across Recruitment Sources and Survey Titles at Southern Utah University*. Poster presentation at the Rocky Mountain Psychological Association Annual Convention, Albuquerque, NM.
- Hermansen, G., **Read, W.**, & P. McFadden. (2023). *Gender stereotypes and toy preferences*. Oral presentation at the Rocky Mountain Psychological Association Annual Convention, Albuquerque, NM.
- Narvare, A., **Read, W.**, & P. McFadden. (2023). *The Comorbidity of Anxiety, Depression, and Rejection Sensitivity in ADHD*. Poster presentation at the Southern Utah University Festival of Excellence, Cedar City, UT.
- Hermansen, G., **Read, W.**, McFadden, P., & J. Johnson-Pynn. (2022). *Trucks vs. dolls: A study of gender stereotypes in children's toys*. Poster presentation at the Southern Utah University Psychology Research Symposium, Cedar City, UT.

Research and Relevant Work Experience

Evaluation & Assessment Intern | Church Education System, The Church of Jesus Christ of Latter-Day Saints | August 2023-August 2024 | Salt Lake City, UT

- Aided in the design, data collection, analysis, and presentation of large-scale research, evaluation, and assessment projects focused on worldwide product implementation and effectiveness, teacher training, and student learning outcomes.

Research Intensive Summer Experience (RISE) Student | School of Graduate Studies, Rutgers University | May 2023-August 2023 | New Brunswick, NJ

- 10-week summer research experience that consisted of an independent research project, participation in weekly professional development training, and presentation of findings in both oral and poster presentations.

Data Analysis Intern | Psychology Department, Southern Utah University | January 2023-May 2023 | Cedar City, UT

- Managed dataset for a large research project on mental health (merged datasets, cleaned data, scored data), as well as developed proficiency in statistical software programming (R).
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Teaching Experience

Psychology Department, Southern Utah University

Undergraduate Teaching Assistant | Abnormal Psychology | Fall 2023

Undergraduate Teaching Assistant | Psychology of Culture | Summer 2022

Undergraduate Teaching Assistant | General Psychology | Spring 2022

Undergraduate Teaching Assistant | Academic Wellness | Spring 2022

Undergraduate Teaching Assistant | Experimental Analysis of Behavior | Fall 2021 to Fall 2022

Scholarships, Honors, and Recognitions

Recipient, Data Science Institute Fellowship, Data Science Institute, University of Delaware, 2025

Recipient, Graduate Scholars Award, Graduate College, University of Delaware, 2024

Recipient, President's Academic Scholarship, Southern Utah University, 2020-2024

College of Humanities and Social Sciences Nominee, Board of Trustees Scholarship, Southern Utah University, 2023

Award for Outstanding Psychology Student, Southern Utah University, Spring 2024

Award Finalist for Best Undergraduate Research, Rocky Mountain Psychological Association, Spring 2023

First-place Poster Presentation, Psychology Research Symposium, Southern Utah University, Fall 2022

Graduate Coursework

- **Educational Measurement Theory:** classical and modern test theory including scaling, scoring, reliability, validity, generalizability theory, bias, item analysis, item response theory and equating (spring 2026)
 - **Advanced Research Design for Casual Inference:** internal/external validity, potential outcomes, fixed effects, true/quasi-experiments, propensity-score, mediation/moderation, longitudinal designs (spring 2026)
 - **Applied Bayesian Analysis:** Bayes theorem, prior and posterior distributions, Bayes factors, and parameter and model estimation via Markov Chain Monte Carlo, Bayesian regression/ MLM (spring 2026)
 - **Statistical Programming in R and Python:** data management, data visualization, Monte Carlo simulation, power analysis, model estimation, matrix-based thinking (course grade: A)
 - **Multilevel Models in Education:** clustered data analysis, 2 level HLM, empirical bayes estimation, growth models, contextual effects, 3 level HLM, missing data techniques (course grade: A)
 - **Intermediate Regression and ANOVA:** model specification and assumptions, post-hoc analyses, interactions, confounding and collinearity, diagnostic and remedial techniques (course grade: A)
 - **Math Review for Statistics:** summation rules, logarithms, exponent rules, functions, limits, derivatives and integrals, matrix algebra, estimators and sampling distributions, expectations (course grade: A)
 - **Introduction to Structural Equation Modeling:** path models, factor analysis, latent variable models, growth models, model identification, maximum likelihood estimation (course grade: A)
 - **Experimental Design in Education:** randomized control trials, cluster-randomized trials, blocked RCT, research design, quasi-experimental methods (course grade: A)
 - **Proseminar in Education 2:** history of quantitative research in education (course grade: A)
 - **Data Visualization:** using R to visualize trends, associations, geospatial data, summary statistics, models, introduction to interactive visualizations using Shiny (course grade: A)
 - **Qualitative Research in Education:** introduction to common methodological frameworks used in qualitative research (phenomenology, grounded theory, ethnography), qualitative data collection, qualitative data analysis (course grade: A)
 - **Proseminar in Education 1:** history of qualitative research in education, history of education reform in the United States, critical evaluation of qualitative education research (course grade: A)
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Workshops and Independent Learning

- **Structural Equation Modeling Workshop:** 3 day workshop taught by the director of the Center for Integrated Latent Variable Research (CILVR) Dr. Greg Hancock on the basics of structural equation modeling (25 hours).
- **Introduction to Multilevel Modeling:** 3 day workshop taught by CenterStat instructor Dr. Patrick Curran on the basics of analyzing clustered data (25 hours).
- **Statistical Rethinking:** Independent learning project focused on an introduction to Bayesian inference using Dr. Richard McElreath's book *Statistical Rethinking* (40 hours).
- **Constructing Measures:** Independent learning project focused on an introduction to measurement in the behavioral sciences using Dr. Mark Wilson's book *Constructing Measures* (40 hours).
- **Introduction to Simulation Studies in Quantitative Research:** A series of independent projects focused on learning how to simulate data for quantitative research (20 hours).

Service

Department service

University of Delaware

- Member, DSI Data Science Symposium Planning Committee (2026)
- Judge, DE DataQuest (2026)
- Student Panelist, CEHD Virtual Graduate Programs Open House (2025)
- Member, Delaware Day Student Panel (2025)
- Member, 2025-2026 Colloquium Speaker Planning Committee (2025)