

## CURRICULUM VITAE

# R. Noah Padgett

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Department of Educational Psychology  
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## Education

- Ph.D. Present Baylor University  
Educational Psychology  
Quantitative Methodology Specialization
- M.A. Present Baylor University  
Educational Psychology  
Quantitative Methodology Specialization  
Master Thesis: *Factor Analysis in Educational Setting: A Simulation Study Comparing Fit Statistics Across Robust Estimators*
- B.S. 2017 University of Wisconsin - Whitewater  
Majors: Mathematics *Statistics emphasis* & Psychology *General*  
Senior Thesis: Successfully Defended on May 4, 2017  
*Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*

## Scholarship

### *Refereed Publications*

1. Greathouse, KL, White, J, **Padgett, R. N.**, Perrotta, B, Jenkins, GD, Chia, N, & Chen, J. (In Press). *Gut microbiome meta-analysis reveals dysbiosis is independent of body mass index in predicting risk of obesity-associated CRC*. American Journal of Gastroenterology.
2. Greathouse, K. L., White, J., Vargas, A., Bliskovsky, V., Beck, J., von Muhlinen, N., ... Harris, C. (2018, Aug.) *Microbiome-TP53 Gene Interaction in Human Lung Cancer*. Genome Biology, 19(1), 123. <https://doi.org/10.1186/s13059-018-1501-6> (Journal Impact Factor = 13.2)
3. Paneru, K., **Padgett, R. N.**, & Chen, H.. (2018, June) *Analysis of Zero-Inflated Population Mean: A Bootstrapping Approach*. Journal of Modern Applied Statistical Methods. 17(1), eP2557. doi: [10.22237/jmasm/1525133460](https://doi.org/10.22237/jmasm/1525133460)
4. Rehfeld, D., & **Padgett, R. N.** (2018, Jan.). *Test Review: Comprehensive Assessment of Spoken Language Second Edition*. Journal of Psychoeducational Assessment. (published online) <https://doi.org/10.1177/0734282917753484>

### *Technical Reports & Nonrefereed Publications*

1. Cooper, S., Kerschen, K., **Padgett, R. N.**, & Rehfeld, D. (2018) *Math for Early Learners Academy (MELA)*. Press release. <https://www.baylor.edu/soe/index.php?id=935594>

2. **Padgett, R. N.**, Wilberding, E. & Waraczynski, M. (2016, Dec.) *Analyzing the Effectiveness of the Functional Family Case Management Program: Examining Episode and Placement Length*. Internal Report: Department of Health and Human Services, Walworth, WI.
3. Cortez, M., Gockenbach, M., Huang, Y., **Padgett, R. N.**, Nazari, F., Kribs, C., & Arriola, L. (2016) *The Effects of Culling and Quarantine on Reducing Antibiotic Resistance in a Cohort of Beef Cattle*. Technical Report. (2) <https://mtbi.asu.edu/tech-reports-2016>

### *Works Submitted*

1. Stamatis, A., Morgan, G. B., & **Padgett, R. N.** (Submitted). *Developing and training Mental Toughness in Sport: A systematic review and meta-analysis of cross-sectional designs and pre- and post-test experiments*. Sport, Exercise, and Performance Psychology.
2. **Padgett, R. N.**, Renbarger, R. L. & Sulak, T. (Submitted). *A comparison of methods and software for analyzing plausible values: An example with PIAAC*. Large-Scale Assessment in Education.
3. Renbarger, R. L., **Padgett, R. N.**, Cowden, R. G., Govender, K., George, G., Makhnach, A.V.,... Kreménková, L. (Submitted) *Culturally Relevant Resilience: A Psychometric Meta-Analysis of the Child and Youth Resilience Measure (CYRM)*. Journal of Research on Adolescence.
4. **Padgett, R. N.** & Renbarger, R. L. (Submitted) *Test Review: Child and Youth Resilience Measure*. Journal of Psychoeducational Assessment.
5. **Padgett, R. N.**, Forsse, J. S., Zacharias, P., Deal, P., Stamatis, A. (Submitted) *Mental Health Best Practices in NCAA: The Bidirectional Relationship between Mental Toughness and Self-Compassion*. International Journal of Exercise Science: Conference Proceedings.

### *Conference Presentation*

#### **National/International**

1. **Padgett, R. N.** & Morgan, G. B. (2019) *An examination of sensitivity to measurement error of Rasch residual-based fit statistics*. Paper Session, American Educational Research Association, Toronto, Canada.
2. **Padgett, R. N.**, Renbarger, R. L., Sulak, T. L. & Jiang, S. (2019) *A comparison of methods and software for analyzing plausible values: An example with PIAAC*. Paper Session, American Educational Research Association, Toronto, Canada.
3. Renbarger, R. L., **Padgett, R. N.**, Cowden, R. G., Govender, K., George, G., Makhnach, A.V., Novotný, J.S., Nugent, G., Rosenbaum, L., & Kreménková, L. (2019) *Culturally Relevant Resilience: A Psychometric Meta-Analysis of the Child and Youth Resilience Measure (CYRM)*. Paper Session, American Educational Research Association, Toronto, Canada.
4. Rehfeld, D. M., **Padgett, R. N.**, & Rainer, D. (2018, Nov.). *A pilot investigation into the relationship between clinical competence and student independence*. ePoster session presented at the meeting of the American Speech-Language-Hearing Association (ASHA). Boston, MA.
5. Paneru, K., **Padgett, R. N.** (2017, Jan.). *Pseudo-Likelihood Estimates and Bootstrap Confidence Intervals for the Mean of Zero-Inflated Population*. Paper Session, Joint Mathematics Meeting, Atlanta, GA.
6. **Padgett, R. N.** (2017, Jan.). *Exploring Modular Arithmetic and Stochasticity to Estimate Latent Variables*. Mathematics Association of America Student Poster Session, Joint Mathematics Meeting, Atlanta, GA.

## Regional/Local

1. **Padgett, R. N.**, & Tipton, R. J. (2018, April). *Frequency of Response Category Endorsement and Resulting Impact on Classification*. Poster presentation. Graduate Student Association Research Showcase, Waco, TX.
2. Morgan, G., Wells, K., **Padgett, R. N.** (2018, Feb.). *Multilevel Latent Transition Mixture Modeling for Organizational Models: A Simulation*. Paper presentation. SERA Annual Meeting, New Orleans, LA.
3. **Padgett, R. N.** (2018, Feb.). *Investigating Error Distribution from Categorizing Item Response as a Source of Variability in Trait Estimates*. Paper presentation. SERA Annual Meeting, New Orleans, LA.
4. **Padgett, R. N.**, & Tipton, R. J. (2018, Feb.). *Frequency of Response Category Endorsement and Resulting Impact on Classification*. Paper presentation. SERA Annual Meeting, New Orleans, LA.
5. Bhattacharyya, J., Chan, C., **Padgett, R. N.**, & Waraczynski, M. (2017, April) *Assessing the Dynamics of Learning in Research Apprenticeship Program (RAP) Students*. Poster session at UW System Spring Conference on Teaching and Learning, La Crosse, WI.
6. **Padgett, R. N.** (2017, April) *Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*. Mathematics Association of America Wisconsin Section, Milwaukee, WI.
7. **Padgett, R. N.** (2017, Mar.) *Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*. Poster session at UW-W Spring Undergraduate Research Day, Whitewater, WI.
8. Cortez, M., Gockenbach, M., Huang, Y., **Padgett, R. N.**, Nazari, F., Kribs, C., & Arriola, L. (2016, Oct.). *Antibiotic Resistance in Beef Cattle: The Effects of Culling, Quarantining, and New Legislation*. Poster session at Louis Stokes Midwest Center of Excellence, Lisle, IL.
9. Zawacki, A., & **Padgett, R. N.** (2016, Sept.) *Assessing Intervention Effectiveness in Walworth County's Health and Human Services*. Dean's Advisory Board Poster Session, Whitewater, WI.
10. **Padgett, R. N.** (2016, April). *Zero-Inflated Populations in Applications: Examples, Analysis, and Modeling*. Mathematics Association of America Wisconsin Section, La Crosse, WI.
11. **Padgett, R. N.** (2016, April). *Analysis of Zero-Inflated Population Mean: Applying Bootstrapping as an Alternative*. Poster session at National Conference of Undergraduate Research, Asheville, NC.
12. Bhattacharyya, J., Chan, C., Gnadt, K., Martinez, M., & **Padgett, R. N.** (2016, Feb.). *Mastering Research with RAP Masters: Peer Mentoring and LEAP ELO's*. Poster session at UW- System Liberal Education & America's Promise (LEAP), Whitewater, WI.
13. **Padgett, R. N.** (2015, Oct.) *Analysis of Zero-Inflated Populations: An Application to Rain Fall in Snoqualmie Falls, WA*. Dean's Advisory Board Poster Session, Whitewater, WI.

## Research Awards

- 2018      SERA Dean's Paper Award  
Paper Title: Investigating Error Distribution from Categorizing Item Response as a Source of Variability in Trait Estimates
- 2018      SERA Dean's Paper Award  
Paper Title: Frequency of Response Category Endorsement and Resulting Impact on Classification
- 2017      UW-Whitewater Undergraduate Research Day  
Poster Presentation Award Finalist for Psychological & Behavioral Sciences  
Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables
- 2017      Best Use of Data for UW-Whitewater Assessment Day  
Assessing the Dynamics of Learning in Research Apprenticeship Program (RAP) Students
- 2016      UW-Whitewater Undergraduate Research Day  
Poster Presentation Award Finalist for Physical Sciences and Mathematics  
Analysis of Zero-Inflated Populations: Nonparametric Bootstrapping & Complex Sampling Designs

## Fellowships

- 2019      National Science Foundation Graduate Research Fellowship Program (\$138,000, SUBMITTED)  
Baylor University  
Project: *Multilevel mixture propensity score analysis: Estimating causal effects in educational data*
- 2018      Digital Research & Innovative Visual Explorations Summer Scholars Fellowship (\$1000, Unfunded)  
Baylor University  
Project: *Interpretation driven approach to class enumeration selection: A new visualization tool*
- 2016      Mathematical & Theoretical Biology Institute Summer Program (\$4000)  
Arizona State University  
Project: *Antibiotic Resistance in Beef Cattle: The Effect of Culling, Quarantine, and New Legislation*
- 2016      Summer Undergraduate Research Fellowship (\$3500)  
Co-recipient with Alyssa Zawacki  
University of Wisconsin - Whitewater  
Project: *Assessing Intervention Effectiveness in Walworth County's Department of Health and Human Services*
- 2014      Research Apprenticeship Program (\$1000)  
University of Wisconsin - Whitewater  
Project: *Regression Analysis in Zero-Inflated Populations using Pseudo-Likelihood Function for Parameter Estimation*

## Grants

- 2016      University of Wisconsin - Whitewater Spring Undergraduate Research Grant Recipient (\$1000)  
Project: *Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*
- 2015      University of Wisconsin - Whitewater Spring Undergraduate Research Grant Recipient (\$500)  
Project: *Analysis of Zero-Inflated Populations: A Bootstrap Approach*

## Programming Languages & Statistical Software

### *Languages*

**R**, *Mplus* &  $\text{\LaTeX}$  (Expert)  
SAS, C++, MatLab, SPSS (Proficient)  
Python, Stata, Mathematica, Maple (Some Experience)

### *Open Source Software*

1. Padgett, R. N. (2018, Dec.). **R**: Cluster analysis homogeneity statistic (Version v1.0). GitHub Repository. <http://doi.org/10.5281/zenodo.2484733>

### *Software Training*

1. National Assessment of Educational Progress Research Training (2019, Jan.) Washington, DC.

## Teaching

### *Baylor University*

#### Courses

- EDP 6362: Applied Multiple Regression & Correlation Analysis in Education (Co-Instructor; Spring 219)
- EDP 5334: Statistical Methods (Teaching Assistant; Summer 2018)

#### Workshops

- Morgan, G. & **Padgett, R. N.** (2019, Feb.) *Mixture Models: Introduction & Applications*. SERA.
- Morgan, G. & **Padgett, R. N.** (2017, Nov.) *Regression with Count Outcomes*. University of Texas - San Antonio. (Co-developed)

### *University of Wisconsin - Whitewater*

- MATH 342: Applied Statistics (Supplemental Instructor; Fall 2015, Fall 2016, Spring 2017)
- MATH 152: Pre-Calculus (Supplemental Instructor; Fall 2015)
- PSYCH 215: Basic Psychological Statistics (Supplemental Instructor; Fall 2015, Spring 2016, Fall 2016)
- Math Learning Center Tutor for: college algebra, pre-calculus, calculus I, calculus II, and statistics

## Service

### *Baylor University*

- 2018 Southwest Educational Research Association graduate student representative
- 2018 - 2019 Graduate Student Association Department Representative

### *University of Wisconsin - Whitewater*

- 2017 University Curriculum Committee:  
College of Letters and Sciences (CL&S) Student Representative
- 2016 - 2017 CL&S Curriculum Committee
- 2017 CL&S Appeals Committee
- 2017 CL&S Class Climate (Course evaluations committee)
- 2016 - 2017 CL&S Dean' Advisory Council representative for the Department of Psychology

## Professional Membership

- 2018 - Present Society for Improving Psychological Science (SIPS)
- 2018 - Present American Educational Research Association (AERA)
- 2017 - Present Southwest Educational Research Association (SERA)

## Academic Awards & Scholarships

- 2018 School of Education Dean's Office Travel Award
- 2017 Baylor University Graduate School Research Travel Award
- 2017 Baylor University Department of Educational Psychology Travel Award
- 2016 Mark and Diane Fiebrink Mathematics Scholarship
- 2016 Marion B. Schlicher Mathematics Scholarship
- 2016 Amy Krueger Memorial Psychology Scholarship
- 2016 UW-Whitewater General Merit Scholarship
- 2016 UW-Whitewater Chancellor Scholarship
- 2016 Dean's List at UW-Whitewater
- 2015 UW-Whitewater General Merit Scholarship
- 2015 Amy Krueger Memorial Psychology Scholarship
- 2015 Chuck and Martha Heinrich Mathematics Scholarship
- 2015 Carroll and Kay Flanagan Mathematics Scholarship
- 2015 Dean's List at UW-Whitewater
- 2015 National Collegiate Bowling Association Academic All American
- 2014 Stephen Lewandowski Mathematics Scholarship
- 2014 Dean's List at UW-Whitewater
- 2014 National Collegiate Bowling Association Academic All American
- 2014 President's List at Caldwell Community College & Technical Institute
- 2013 Dean's List at Caldwell Community College & Technical Institute

## Employment

### *Baylor University*

- 2017 - present Graduate Assistant for Grant Morgan, Ph.D

*University of Wisconsin - Whitewater*

2015 - 2017	Research Apprenticeship Program Assistant
2014 - 2017	Math Learning Center
2016	Co-Coordinator for ULEAD Program in Career & Leadership Development