

CURRICULUM VITAE

R. Noah Padgett

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Education

- M.A./Ph.D. Present Baylor University
Educational Psychology
Quantitative Methodology Specialization
- 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, K. L., White, J., Vargas, A., Bliskovsky, V., Beck, J., von Muhlinen, N., Polley, E., Bowman, E., Khan, M., Robles, A., Ryan, B., **Padgett, R. N.**, Dzutsev, A., Trinchieri, G., Pineda, M., Bilke, S., Meltzer, P., Hokenstad, A., Stickrod, T., Walther-Antonio, M., Earl, J., Mell, J., Krol, J., Balashov, S., Bhat, A., Ehrlich, G., Valm, A., Deming, C., Conlan, S., Oh, J., Segre J., 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> (Impact Factor = 13.2)
2. 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
3. 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> (Impact Factor = 1.4)

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. **Padgett, R. N.** & Grant B. Morgan (submitted). *Variability in Ability Estimates depends on Error Distribution from Categorizing Item Response*.
2. Greathouse, KL, White, J, **Padgett, R. N.**, Perrotta, B, Jenkins, GD, Chia, N, & Chen, J. (submitted). *Gut microbiome meta-analysis reveals dysbiosis is independent of body mass index in predicting risk of obesity-associated CRC*.
3. 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*
4. **Padgett, R. N.**, Renbarger, R. L. & Sulak, T. (Submitted). *A comparison of methods and software for analyzing plausible values: An example with PIAAC*. Practical Assessment, Research & Evaluation.

Conference Presentation

National/International

1. 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.
2. **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

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| 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)
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

R, *Mplus*, SPSS & L^AT_EX(Expert)
SAS, Stata, C++, MatLab, Mathematica, Maple (Proficient)

Teaching

Courses

EDP 5334: Statistical Methods (Teaching Assistant; Summer 2018)

Workshops

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 American Educational Research Association
 2017 - Present Southwest Educational Research Association

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 Deans 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 Deans List at UW-Whitewater
 2015 National Collegiate Bowling Association Academic All American
 2014 Stephen Lewandowski Mathematics Scholarship
 2014 Deans 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

Consulting

1. McKay & Andreta (2018) *Growth Mixture Modeling of Alcohol Tendencies of young adults.*