

Robert Noah Padgett
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Education:

Baylor University (BU) 2017 - present
MS/PhD Educational Psychology
Specialization: Quantitative Research Methodology

University of Wisconsin - Whitewater (UW-W) 2014 - 2017
Bachelor of Science
Successful Completion of Honors Program
Majors: Mathematics with Statistics emphasis & Psychology
Senior Thesis: *Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*
GPA: 3.82/4.0

Caldwell Community College & Technical Institute (CCC&TI) 2012 - 2014
Dual Enrolled Non-Degree Seeking High School Student
GPA: 3.83/4.0

Teaching Experience:

Math Tutor:

- UW-Whitewater Math Learning Center 2014 – 2017
- Math Tutor at CCC&TI tutorial center 2013 - 2014
 - Topics I have tutored: college algebra, pre-calculus, calculus, and statistics

Supplemental Instructor for UW-Whitewater Tutorial Center 2015 - 2017

- Conducted review sessions for Intro to Statistics and Applied Statistics
- In class tutor for Intro to Psych Statistics & Applied Statistics

Bowling Experience:

UW-Whitewater Men's Bowling Team Member 2014 - 2016

- National Tournament Finishes
 - 7th/ 8th 2016
 - 5th/ 6th 2015

North Carolina "All-Stars" State Bowling Team 2011-2014

- Captain for 2013-14 season
- Won all 9 events in 3 seasons.

Junior Gold National Youth Tournament, Chicago, IL	131 st /1200+	2015
Junior Gold National Youth Tournament, Buffalo, NY	185 th /1100+	2014
Tough Shots Bowling Tour, Southeast Regional	2 nd	Aug. 2014
Tough Shots Bowling Tour, Southeast Regional	3 rd	March 2014
Tough Shots Bowling Tour, Southeast Regional	2 nd	June 2013
Tough Shots Bowling Tour, Southeast Regional	1 st	Sept. 2012
North Carolina Youth State Tournament Finals	1 st	2014
North Carolina Youth State Tournament Finals	7 th	2013

Research Experience:

Fellowships

Mathematical & Theoretical Biology Institute Summer Program (\$4000) 2016

- Project: Antibiotic Resistance in Beef Cattle: The Effect of Culling, Quarantine, and New Legislation
- One of 26 selected from over 400 applicants from across the globe
- Team Members: McKenna Cortez, Mary Gockenbach and Ying Huang
- Mentors: Dr. Christopher Kribs (University of Texas – Arlington), Dr. Leon Arriola (UW-Whitewater), and Ms. Fereshta Nazara (Arizona State University)

UW-W Summer Undergraduate Research Fellowship (\$3500) 2016 - 2017

- Project: Assessing Intervention Effectiveness in Walworth County's Department of Health and Human Services
- Collaborators: Alyssa Zawaki, Etty Wilberding and Walworth County DHHS
- Mentor: Dr. Meg Waraczynski (UW-Whitewater)

Research Apprenticeship Program (\$1000) 2014 - 2015

- Project: Regression Analysis in Zero-Inflated Populations using Pseudo-Likelihood Function for Parameter Estimation
- Mentor: Dr. Khyam Paneru (UW-Whitewater)

Grants

UW-W Spring Undergraduate Research Grant Recipient (\$1000) 2016

- Senior Thesis: Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables

UW-W Spring Undergraduate Research Grant Recipient (\$500) 2015

- Project: Analysis of Zero-Inflated Populations: Applying Bootstrapping as an Alternative

Other Research Experience

Assessing the Dynamics of Learning in Research Apprenticeship Program (RAP) Students 2015 – 2017

- Analyzing the change in underlying traits of students in RAP
- Mentors: Dr. Juk Bhattacharyya and Dr. Meg Waraczynski

Learning the Water Cycle: Kinesthetic vs. Traditional Approaches 2016

- Collaborators: Alexis Seitz & Amanda Anderson
- Mentor: Dr. Bhattacharyya, Geography & Geology Department

Publications

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

Padgett, R. N., Paneru, K., & Chen, H.. *Analysis of Zero-Inflated Population Mean: Applying Bootstrapping as an Alternative*. Journal of Modern Applied Statistical Methods.

Presentations

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.

Bhattacharyya, J., Chan, C., Padgett, R. N., Waraczynski, M. (2017, Feb.) *Assessing the Dynamics of Learning in Research Apprenticeship Program (RAP) Students*. Assessment Day Poster Session, University of Wisconsin – Whitewater, Whitewater, WI.

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.

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.

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.

Padgett, R. N., Zawacki, A. (2016, Sept.) *Antibiotic Resistance in Beef Cattle: The Effects of Culling, Quarantining, and New Legislation AND Assessing Intervention Effectiveness in Walworth County's Health and Human Services*. Dean's Advisory Board Poster Session, Whitewater, WI.

Padgett, R. N. (2016, April). *Zero-Inflated Populations in Applications: Examples, Analysis, and Modeling*. Mathematics Association of America Wisconsin Section, La Crosse, WI.

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.

Padgett, R. N. (2016, March). *Analysis of Zero-Inflated Populations: Nonparametric Bootstrapping & Complex Sampling Designs*. Poster session at UW-W Spring Undergraduate Research Day, Whitewater, WI.

Padgett, R. N., Bhattacharyya, J., Chan, C., Martinez, M., Gnadt, K. (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.

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.

Padgett, R. N. (2015, Sept.) *Analysis of Zero-Inflated Populations: An Application to Tax Fraud*. Poster session at UW-Whitewater Fall Undergraduate Research Day, Whitewater, WI.

Poster Awards

Poster Presentation Award Finalist for Psychological & Behavioral Sciences 2017

- Poster: *Exploring Modular Arithmetic and Stochasticity to Measure Latent Variables*

Best Use of Data for UW-Whitewater Assessment Day 2017

- Poster: *Assessing the Dynamics of Learning in Research Apprenticeship Program (RAP) Students*

Poster Presentation Award Finalist for Physical Sciences and Mathematics 2016

- Poster: *Analysis of Zero-Inflated Populations: Nonparametric Bootstrapping & Complex Sampling Designs*

Work Experience:

Research Apprenticeship Program Assistant 2015 - 2017

- Peer mentorship program coordinator
- Assisting in running and setting up of presentations and workshops for the Undergraduate Research Program
- Giving presentations for the program to help guide future undergraduate researchers

Co-Coordinator for ULEAD Program in Career & Leadership Development 2016

- Program for incoming freshman to gain leadership training from experienced student leaders on campus

Technical Skills:

I have used the following software for:

- Research: R, SPSS, Matlab, Mathematica, Excel, and Latex
- Course work: R, SPSS, Excel, and C++

University Service:

- College of Letters and Sciences (CL&S) Dean's Advisory Council 2016 – 2017
 - Student representative for the Department of Psychology
- University Curriculum Committee - CL&S Student Representative 2016 – 2017
 - CL&S Student Representative
- CL&S Committees
 - Curriculum Committee 2016 – 2017
 - Appeals Committee 2017
 - Class Climate (course evaluation committee) 2017
- UW-Whitewater Wisconsin Alliance for Minority Participation Winter Institute 2017
 - Student presenter/session leader

Academic Scholarships, Awards & Honors:

- Mark and Diane Fiebrink Mathematics Scholarship 2016
- Marion B. Schlicher Mathematics Scholarship 2016
- UW-Whitewater Chancellor Scholarship 2016
- UW-Whitewater General Merit Scholarship 2015 & 2016
- Amy Krueger Memorial Psychology Scholarship 2015 & 2016
- Chuck and Martha Heinrich Mathematics Scholarship 2015
- Carroll and Kay Flanagan Mathematics Scholarship 2015
- Stephen Lewandowski Mathematics Scholarship 2014
- Spring Undergraduate Research Day UWW Presentation Award Finalist 2016
- Dean's List at UW-Whitewater 2014 - 2016
- National Collegiate Bowling Association Academic All American 2014 - 2015
- President's List at Caldwell Community College & Technical Institute 2014
- Dean's List at CCC&TI 2013

Clubs & Volunteering:

- President of Student Math Association 2015 – 2017
- Member of InterVarsity Christian Fellowship 2014 – 2017
- Peer Mentor of Research Apprenticeship Program 2015 – 2017
- Member of Student Undergraduate Research Organization 2014 – 2017
- Science Outreach Program Volunteer 2015 – 2017
- Member of University Honors Program 2014 – 2017
- ULEADer - Peer mentor for the leadership conference for freshman 2015
- ULEAD Leadership Conference Participant 2014