

Education

Ph.D. Statistics <i>Colorado State University</i> Advisor: Wen Zhou GPA: 3.927	2019 – present
B.S. Statistics; B.A. Mathematics <i>Winona State University</i> GPA: 4.0	2015 – 2019

Professional Experience

Colorado State University <i>Fort Collins, CO</i> <ul style="list-style-type: none">Graduate Teaching AssistantGraduate Research Assistant	2019 – present <i>SU2020, SU2021, SU2022</i>
Winona State University <i>Winona, MN</i> <ul style="list-style-type: none">TRIO One-on-One Statistics Tutor	2018 – 2019
National Science Foundation Research Experience for Undergraduates <i>Fort Collins, CO</i> <ul style="list-style-type: none">Undergraduate Statistical Consultant	<i>SU2018</i>

Teaching Experience

Colorado State University Instructor <ul style="list-style-type: none">Introduction to Applied Statistics (STAT301)	<i>F2020, S2021, F2021, S2022, F2022, S2023</i>
Interim Instructor <ul style="list-style-type: none">Statistics Supplement (STAT302A)	<i>F2022, S2023</i>
Undergraduate Mentor <ul style="list-style-type: none">Statistical Research - Design, Data, Methods (STAT472)	<i>F2022</i>
Assistant Course Coordinator <ul style="list-style-type: none">Introduction to Applied Statistics (STAT301)	<i>S2023</i>
Course Developer <ul style="list-style-type: none">Statistics Supplement (STAT302A)Intermediate Applied Statistical Methods (STAT331)	<i>SU2023</i> <i>SU2023</i>
Grader <ul style="list-style-type: none">Intro to Theory and Practice of Statistics (STAT315)Introduction to Applied Statistics (STAT301)Data Analysis and Regression (STAT540)Statistical Consulting Skills (STAT555)	<i>F2019</i> <i>S2020</i> <i>F2021</i> <i>S2022</i>

Recitation Instructor

General Statistics (STAT201)

F2019, S2020

Short Course Instructor/Facilitator

Coding & Cookies: Reproducible Reports Using RMarkdown

F2022

Coding & Cookies: Data Visualization Using ggplot2

S2022

Research Interests

Multiple testing procedures.

Replicability/Reproducibility and its application in high-throughput experimentation.

Statistical applications in sports.

Publications

Evans RC, **Ellingworth A**, Cashen CJ, Weinberger CR, Sambur JB. Influence of single-nanoparticle electrochromic dynamics on the durability and speed of smart windows. *Proc Natl Acad Sci USA*. 2019 Jun 25; 116(26): 12666-12671.

Presentations

“Reproducible or not: a data adaptive nonparametric procedure to define and assess reproducibility across high-throughput studies,” EcoSTA, Tokyo, JP (Virtual). 8/2023. (Invited Presentation)

“Reproducible or not: a data adaptive nonparametric procedure to define and assess reproducibility across high-throughput studies,” WNAR, Anchorage, AK. 6/2023. (Invited Presentation)

“A data adaptive rank-based procedure for assessing reproducibility of highthroughput experiments,” WNAR, Virtual, 6/2022. (Student Paper Oral Presentation)

“Constrained Spline Estimation of the Particle-Particle Interaction in Nanostructured Tungsten Oxide,” Research Experiences for Undergraduates Symposium, Alexandria, VA. 10/2018. (Poster Presentation)

Awards

Distinguished Service Award	Colorado State University Department of Statistics	2023
Outstanding Graduate in Statistics	Winona State University	2019
Best Overall Team	MinneMUDAC Data Analytics Competition	2017

Service

Student Representative	Winona State University Dean’s Advisory Council	2017-2019
Vice President	Winona State University Statistics Club	2018-2019

Technical skills

Software and Languages	R, \LaTeX , Excel, JMP, MATLAB, and Tableau
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