Austin Ellingworth

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Education

Ph.D. Statistics *2019 – present*
Colorado State University
Dissertation: Statistical inference on reproducibility in high-throughput experiments.
Advisor: Wen Zhou
GPA: 3.927

B.S. Statistics; B.A. Mathematics *2015 – 2019*
Winona State University
GPA: 4.0

Professional Experience

Colorado State University *2019 – present*
Fort Collins, CO
- Graduate Teaching Assistant
- Graduate Research Assistant *SU2020, SU2021, SU2022*

Winona State University *2018 – 2019*
Winona, MN
- TRIO One-on-One Statistics Tutor

National Science Foundation Research Experience for Undergraduates *SU2018*
Fort Collins, CO
- Undergraduate Statistical Consultant

Teaching Experience

Colorado State University

Instructor

    Introduction to Applied Statistics (STAT301) *F2020, S2021, F2021, S2022, F2022, S2023*

Interim Instructor

    Statistics Supplement (STAT302A) *F2022, S2023*

Undergraduate Mentor

    Statistical Research - Design, Data, Methods (STAT472) *F2022*

Assistant Course Coordinator

    Introduction to Applied Statistics (STAT301) *S2023*

Course Developer

    Statistics Supplement (STAT302A) *SU2023*

    Intermediate Applied Statistical Methods (STAT331) *SU2023*

Grader

    Intro to Theory and Practice of Statistics (STAT315) *F2019*

    Introduction to Applied Statistics (STAT301) *S2020*

Data Analysis and Regression (STAT540)   *F2021*

Statistical Consulting Skills (STAT555)   *S2022*

Recitation Instructor

    General Statistics (STAT201)   *F2019, S2020*

Short Course Instructor/Facilitator

    Coding & Cookies: Reproducible Reports Using RMarkdown   *F2022*

    Coding & Cookies: Data Visualization Using ggplot2   *S2023*

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 Anayltics 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