

Emily A. Robinson

Ph.D. Candidate, Statistical Consultant

✉ emily.robinson@huskers.unl.edu | 🏠 emilyarobinson.com | in erobinson95 | 🌐 earobinson95

Overview

2.5+ years statistical consulting experience working with more than 75 clients.
3+ years teaching experience with introductory statistics and HS geometry.
3 summers (1 year) applying statistics for different industry functions.

Education

Degrees

Ph.D. in Statistics University of Nebraska - Lincoln 3.98 Cumulative GPA	August 2019 – Expected August 2022 Lincoln, NE
M.S. in Statistics University of Nebraska - Lincoln 4.0 Cumulative GPA	August 2017 – May 2019 Lincoln, NE
B.S. in Statistics & B.S. in Secondary Math Education Winona State University Honors: Summa Cumme Laude, Mu Sigma Rho, Pi Mu Epsilon 4.0 Cumulative GPA	August 2013 – May 2017 Winona, MN

Certifications

5-12 Mathematics Teaching License State of Minnesota – Department of Education File Folder Number: 500935	Issued May 2017 – Expires June 2023 Minnesota
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Publications and Presentations

Publications

- Robinson, E. A.**, VanderPlas, S., Howard, R., (2021) Eye Fitting Straight Lines in the Modern Era. Under Preparation. Target journal: *Journal of Computational and Graphical Statistics*. Access on GitHub here.
- Ongaratto, S., Baldin, E. L., Hunt, T. E., Montezano, D. G., **Robinson, E. A.**, Heier, K., & Santos, M. C. (2021) Larval movement of *Anticarsia gemmatalis* (Lepidoptera: Erebidae) on vegetative and reproductive stage non-Bt soybean. Submitted to *Journal of Pest Science*.
- Krueger, A. J., **Robinson, E. A.**, Weissling, T. J., Vélez, A. M., & Anderson, T. D. (2021) Chemical combinations reduce growth and survival of monarch butterflies. Submitted to *Journal of Economic Entomology*.
- Reinders, J. D., Wangila, D. S., **Robinson, E. A.**, French, B. W., & Meinke, L. J. (2021) Characterizing the relationship between western corn rootworm (Coleoptera:Chrysomelidae) larval survival on Cry3Bb1-expressing corn and larval developmental factors. *Journal of Economic Entomology*. doi:10.1093/jee/toab151
- Ongaratto, S., Baldin, E. L., Hunt, T. E., Montezano, D. G., **Robinson, E. A.**, & Santos, M. C. (2021). Effects of intraguild interactions on *Anticarsia gemmatalis* and *Chrysodeixis includens* larval fitness and behavior in soybean. *Pest Management Science*. doi:10.1002/ps.6330

Presentations

1. **Robinson, E. A.** (February, 2022) Friday Fun Days: Hands-on experience and peer mentoring in a master's level consulting course. *Conference on Statistical Practice*. New Orleans, LA. Abstract accepted.
2. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (October, 2021) Pandemic Dilemmas: Human perception of exponentially increasing data displayed on a log scale evaluated through experimental graphics tasks. *Women in Statistics and Data Science*. Virtual. Abstract accepted
3. **Robinson, E. A.** (September, 2021) Eye Fitting Straight Lines in the Modern Era. *Midwest Women in Science Conference*. Virtual. Abstract accepted.
4. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (August, 2021) Pandemic Dilemmas: Human perception of exponentially increasing data displayed on a log scale evaluated through experimental graphics tasks. *Joint Statistical Meetings*. Virtual. Access slides [here](#).
5. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (April, 2021) You Draw It with r2d3. *Graphics Group, Iowa State University*. Virtual. Access slides [here](#).
6. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (February, 2021) Do logs work during a pandemic? Perception of exponentially increasing data. *Graphics Group, Iowa State University*. Virtual. Access slides [here](#).

Teaching Experience

UNL

Graduate Teaching Assistant (Instructor of Record) Lincoln, NE
 Department of Statistics, University of Nebraska - Lincoln August 2017 - May 2019
 Average instructor rating: 3.75/4.

STAT 380: Statistics and Applications (3 credit hours), Instructor of Record Spring 2019
 STAT 218: Introduction to Statistics (3 credit hours), Instructor of Record Fall 2019
 STAT 218: Introduction to Statistics (3 credit hours), Instructor of Record Spring 2018
 STAT 218: Introduction to Statistics (3 credit hours), Co-Instructor Fall 2018

RPHS

Secondary Mathematics Student Teaching Experience Rushford, MN
 Rushford-Peterson High School Spring 2017

HS Geometry (3 Sections)
 College Algebra Prep (1 Section)
 Alternative Mathematics (1 Section)

Tutoring

Sylvan Learning Center, Sioux Falls, SD Summer 2017
 Math Achievement Center, Winona State University January 2014 - May 2016

Consulting Experience

Consulting

Statistical Cross-disciplinary Consulting and Collaboration Lab (SC3L) Lincoln, NE
 University of Nebraska - Lincoln January 2019 – Present
 75+ clients, 100+ projects, 4 publications
 Work one-on-one with clients to design experiments, conduct power analyses, summarize data, conduct statistical analyses, interpret results, and provide written research reports.
 Collaborate on graduate theses and manuscripts for peer reviewed journal publication.
 Mentor students on leading meetings, running analysis, and writing reports.
 Lead hands-on activities in introductory consulting class once a week.

Mentoring

STAT 930: Advanced Statistical Consulting (2 credit hours), SC3L Assistant Spring 2021
 STAT 825: Principles of Statistical Consulting (3 credit hours), SC3L Assistant Fall 2020
 STAT 930: Advanced Statistical Consulting (2 credit hours), SC3L Assistant Spring 2020
 STAT 825: Principles of Statistical Consulting (3 credit hours), SC3L Assistant Fall 2019

Research Experience

Research	Ph.D. Thesis at University of Nebraska - Lincoln	Lincoln, NE
	Co-Advisers: Susan VanderPlas and Reka Howard Dissertation Topic: Human perception of exponentially increasing data displayed on a log scale evaluated through experimental graphics tasks. GitHub repository available here .	May 2020 – Present
	Genomic Prediction Graduate Research Assistant	Lincoln, NE
	Advisor: Reka Howard	Summer 2018

Industry Experience

Industry	Berkley Human Services	Minneapolis, MN
	Actuarial Internship	Summer 2017
	John Deere Financial	Johnston, IA
	Credit Risk Internship	Summer 2016
	John Deere Headquarters	Moline, IL
	Statistics Internship	Summer 2015

Skills

Technical Skills	Proficient in: R/RStudio, RShiny, RMarkdown, SAS, Latex, Git/GitHub. Familiar with: Python, SQL, Databases, Tableau, MPlus, SPSS, JavaScript, D3.js.
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Honors and Awards

Scholarships	Chancellor's Fellowship, University of Nebraska - Lincoln	2017
	Lorena W. Jacobson Scholarship, Winona State University	2014-2017
Competitions	MinneMUDAC, team won best serendipitous discovery. (MinneAnalytics)	2016
	Midwest Undergrad Data Analytics Competition, team recieved 3rd place. (WSU)	2016
	Midwest Undergrad Data Analytics Competition, participation. (WSU)	2015

Professional Development

Professional membership	American Statistical Association	March 2015 – Present
Short Courses and Workshops	Preparing to Teach	Virtual
	ASA Section on Statistics and Data Science Education	August 2021
	Evolution of Bayesian Software in SAS	Virtual
	Applied Statistics in Agriculture and Natural Resources	May 2021
	Navigating Tough Conversations in Statistical Collaboration	Virtual
	Conference on Statistical Practices (CSP)	February 2021
	Introduction to Business Data Analysis in Python	Lincoln, NE
	Holland Computing Center (HCC)	January 2020
	Teaching Data Science	Denver, CO
	Joint Statistical Meetings (JSM)	July 2019

Conference Attendee	Joint Statistical Meetings (JSM), Virtual	August 2021
	United States Conference on Teaching Statistics (USCOTS), Virtual	June 2021
	Conference on Applied Statistics in Agriculture and Natural Resources, Virtual	May 2021
	Conference on Statistical Practices (CSP), Virtual	February 2021
	Women in Statistics and Data Science (WSDS), Virtual	October 2020
	Joint Statistical Meetings (JSM), Virtual	August 2020
	Electronic Conference on Teaching Statistics (eCOTS), Virtual	May 2020
	Symposium on Data Science and Statistics (SDSS), Virtual	May 2020
	Joint Statistical Meetings (JSM), Denver, CO	August 2019
	Joint Statistical Meetings (JSM), Vancouver, Canada	August 2018

Service and Leadership

JSM	Session Chair: Time Series Analysis and Visualization, JSM	August 2021
CSP	Session Chair: Health Care Applications	February 2021
USPROC	Judge: Undergraduate Statistics Project Competition	July 2021
NCUWM	Table Host: Undergraduate Women in Mathematics Networking Dinner	February 2020
UNL	Statistics Graduate Student Association, President	July 2019 – Present
	ASUN Graduate Student Assembly, Statistics Representative	August 2019 - May 2020
	Professional Development Committee	August 2019 - May 2020
	IANR/CASNR Graduate Student Committee, Statistics Representative	August 2018 - May 2019
WSU	Math/Stat Club, President	January 2014 - December 2016
Community service	Serve in the Community, Southwood Lutheran Church	January 2020 - Present
	Youth Fellowship Leader, Southwood Lutheran Church	May 2018 - Present
	Amigos for Christ, Chinandega, Nicaragua	May 2019
	Kids First, Winona, MN	January 2016 - December 2017
	Jamaica Travel Study, Winona State University	March 2016