Emily A. Robinson

Ph.D. Student, Statistical Consultant

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

Education

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

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

Skills

Technical Skills

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

Statistical Skills

Experimental Design, Generalized Linear Mixed Models, Supervised Learning, Unsupervised Learning, Data Visualization, Data Management.

Teaching Experience

UNL		
Graduate Teaching Assistant (Instructor of Record)		
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

Statistical Cross-disciplinary Consulting and Collaboration Lab (SC3L)　　　Lincoln, NE
University of Nebraska - Lincoln　　　January 2019 – Present
75+ clients, 100+ projects, 4 publications
Design experiments, conduct power analyses, summarize data, and conduct statistical analyses, interpreted results, provided written research reports.
Collaborate on graduate theses and manuscripts for peer reviewed journal publication.
Mentor students on leading meetings, running analysis, and writing reports.
Assist in leading hands-on activities such as role playing, report writing, and creating data visualizations in the introductory consulting course once a week.

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

Industry Experience

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

Research Experience

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

Genomic Prediction Graduate Research Assistant　　　Lincoln, NE
Advisor: Reka Howard　　　Summer 2018

Publications and Presentations

1. 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.*

2. 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.*

3. 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. Accepted to *Journal of Economic Entomology.*

4. 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

1. **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.

2. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (April, 2021) You Draw It with r2d3. *Graphics Group, Iowa State University*. Virtual. Slides.

3. **Robinson, E. A.**, VanderPlas, S., & Howard, R., (Februrary, 2021) Do logs work during a pandemic? Perception of exponentially increasing data. *Graphics Group, Iowa State University*. Virtual. Slides.

Honors and Awards

Chancellor's Fellowship, University of Nebraska - Lincoln	2017
Lorena W. Jacobson Scholarship, Winona State University	2014-2017

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

American Statistical Association	March 2015 – Present

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

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

Service and Leadership

Time Series Analysis and Visualization, JSM	August 2021
Health Care Applications, CSP	February 2021

Undergraduate Statistics Project Competition (USPROC)	July 2021

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