

Emily A. Robinson

Ph.D. Candidate, Statistical Consultant

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Education

Degrees

Ph.D. in Statistics University of Nebraska - Lincoln <i>3.98 Cumulative GPA</i>	August 2019 – Expected August 2022 Lincoln, NE
M.S. in Statistics University of Nebraska - Lincoln <i>4.0 Cumulative GPA</i>	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 <i>4.0 Cumulative GPA</i>	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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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 Average instructor rating: 3.75/4.	August 2017 - May 2019
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-Peterson High School	Rushford, MN Spring 2017
HS Geometry (3 Sections) College Algebra Prep (1 Section) Alternative Mathematics (1 Section)	

Tutoring

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

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

Research Experience

Research	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

Publications	1. Ongaratto, S., Baldin, E. L., Hunt, T. E., Montezano, D. G., Robinson, E. A. , Heier, K., & Santos, M. C. (2021) Larval movement of <i>Anticarsia gemmatilis</i> (Lepidoptera: Erebidiae) on vegetative and reproductive stage non-Bt soybean. Submitted to <i>Journal of Pest Science</i> .		
	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 <i>Journal of Economic Entomology</i> .		
	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 <i>Journal of Economic Entomology</i> .		
	4. Ongaratto, S., Baldin, E. L., Hunt, T. E., Montezano, D. G., Robinson, E. A. , & Santos, M. C. (2021). Effects of intraguild interactions on <i>Anticarsia gemmatilis</i> and <i>Chrysodeixis includens</i> larval fitness and behavior in soybean. <i>Pest Management Science</i> . doi:10.1002/ps.6330		

Presentations

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., (February, 2021) Do logs work during a pandemic? Perception of exponentially increasing data. *Graphics Group, Iowa State University*. Virtual. Slides.

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 memberships	American Statistical Association	March 2015 – Present
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
Short Courses and Workshops	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

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