Emily A. Robinson

Ph.D. Student, Statistical Consultant

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Education	**University of Nebraska - Lincoln**	Lincoln, NE
	Ph.D. and M.S. in Statistics	August 2017 – Expected May 2022
	3.98 Cumulative GPA	
	Winona State University	Winona, MN
	B.S. in Statistics, B.S. in Secondary Math Education	August 2017 – May 2017
	Honors: Summa Cumme Laude, Mu Sigma Rho, Pi Mu Epsilon	
	4.0 Cumulative GPA	
Certifications	**5-12 Mathematics Teaching License**	Minnesota
	State of Minnesota – Department of Education	Expires June 2023
	File Folder Number: 500935	

Publications

Characterizing the relationship between western corn rootworm (Coleoptera: Chrysomelidae) larval survival on Cry3Bb1-expressing corn and larval developmental factors
Jordan D. Reinders, David S. Wangila, **Emily A. Robinson**, B. Wade French, Lance J. Meinke.
Journal of Economic Entomology, In Submission.

Effects of intraguild interactions on anticarsia gemmatalis and chrysodeixis includens larval fitness and behavior in soybean
Ongaratto, S., Baldin, E. L., Hunt, T. E., Montezano, D. G., **Robinson, Emily A**, and Dos Santos, M. C..
Pest Management Science, 2021.

Research experience

Ph.D. Thesis at University of Nebraska - Lincoln
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.

Statistical Cross-disciplinary Consulting and Collaboration Lab (SC3L)
University of Nebraska - Lincoln   January 2019 – Present
During my time working as a statistical consultant, I have worked with more than 75 clients one-on-one to design experiments, conduct power analyses, summarize data, and conduct statistical analyses. I have collaborated on graduate thesis as well as manuscripts for peer reviewed journal publication.

Graduate Research Assistant
Advisor: Reka Howard   Summer 2018
Created a code pipeline for genomic prediction in Pinus taeda using Bayesian Generalized Linear Regression. Performed prediction using high dimensional genomics data and environmental information via multiple cross-validation methods.

Teaching experience	**Graduate Teaching Assistant**	

Teaching experience

Graduate Teaching Assistant
Department of Statistics, University of Nebraska - Lincoln   2017 - Present

STAT 930: Advanced Statistical Consulting, 2 credit hours
SC3L Assistant (Spring 2020, Spring 2021)
Oversee student collaborations at the SC3L desk, sit in meetings, support students through analysis, provide constructive feedback on consulting reports.

STAT 825: Principles of Statistical Consulting, 3 credit hours
SC3L Assistant (Fall 2019, Fall 2020)
Assist in leading class once a week, share past projects and experience, lead hands-on activities and discussion, arrange for students to shadow SC3L meetings.

STAT 380: Statistics and Applications, 3 credit hours
Instructor of Record (Spring 2019)
Calculus based introductory statistics course. Text used: "Probability and Statistics for Engineers and Scientists," 9th Edition by Walpole et al.

STAT 218: Introduction to Statistics, 3 credit hours
Instructor of Record (Spring 2018, Fall 2019), Co-Instructor (Fall 2018)
Non-calculus based introductory statistics course. Text used:"Introduction to Statistical Investigations," by Tintle et al.

Sylvan Learning Center   Sioux Falls, SD
Tutor   Summer 2017
Worked with K - 8 students on reading, mathematics, and science modules. Worked one-on-one with high school students on ACT prep.

Secondary Mathematics Student Teaching Experience   Rushford, MN
HS Geometry, College Algebra Prep, Alternative Mathematics   Spring 2017
Lead daily class lessons, developed lesson plans, exams, and supplemental materials for learning. Aligned standards and met the 10 Standards of Effective Practice.

Math Achievement Center
Peer Tutor, Winona State University   January 2014 - May 2016
Provided homework guidance and studying strategies to students enrolled in mathematics and statistics courses such as college algebra, introductory statistics, Calculus III, probability, and statistical inference.

Industry experience

Berkley Human Services   Minneapolis, MN
Actuarial Internship   Summer 2017
Gathered and managed data on non-profit organizations. Collaborated with the Berkley Cooperate modeling team to identify common attributes between non-profits insured by the company using tree based machine learning methods.

John Deere Financial   Johnston, IA
Credit Risk Internship   Summer 2016
Developed a portfolio liquidation model using Multinomial Logistic Regression in SAS. Created an Excel user interface using macros.

John Deere Headquarters   Moline, IL
Statistics Internship   Summer 2015
Created and coded an R-shiny application for sales forecasting validation using the dplyr and ggplot2 packages in R.

Technical Skills	Proficient in: R/RStudio, Shiny, Markdown, SAS, Latex, Git/GitHub. Familiar with: Python, SQL, Tableau, MPlus, SPSS, JavaScript, D3.js.

Service and
leadership

Session Chair, Conference on Statistical Practice (CSP)   February 2021
Served as the Chair for CSP 2021 Session CS07 (Health Care Applications). Responsibilities included contacting session speakers prior to conference, introducing speakers at the beginning of the session, keeping track of time, and facilitating a question and answer discussion after presentations.

Statistics Graduate Student Association, President
University of Nebraska - Lincoln   July 2019 – Present
Responsibilities include planning and leading orientation activities, assisting in prospective student campus/virtual visits, planning monthly graduate student social events, organizing community service projects, and providing student support.

ASUN Graduate Student Assembly, Statistics Rep
University of Nebraska - Lincoln   August 2019 - May 2020
Responsibilities included attending monthly meetings that exercise the student governance of affairs solely involving graduate students at the university, as well as collaborating with the ASUN Senate, officers, and committees on issues affecting the entirety of the university's student body.

Professional Development Committee
University of Nebraska - Lincoln   August 2019 - May 2020
Responsibilities included organizing professional development opportunities for graduate students at the university and approving funding to individual department organizations for professional development purposes.

IANR/CASNR Graduate Student Committee, Statistics Rep
University of Nebraska - Lincoln   August 2018 - May 2019
Responsibilities included attending monthly meetings and assisting in representing all students within the Institute of Agriculture and Natural Resources.

Math/Stat Club, President
Winona State University   January 2014 - December 2016
Responsibilities included organizing student social and professional development events, including graduate school visits, and submitting funding requests to student senate.

Professional
memberships

American Statistical Association   March 2015 – Present
Attend annual Joint Statistical Meetings, participate in professional development short courses, serve as session chair.

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