

Emily A. Robinson

Ph.D. Student, Statistical Consultant

Updated March 21, 2021

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| Education | University of Nebraska - Lincoln Ph.D. in Statistics, M.S. in Statistics 3.98 Cumulative GPA | Lincoln, NE August 2017 – Expected May 2022 |
| | Winona State University B.S. in Statistics, B.S. in Secondary Math Education Honors: Summa Cum Laude, Mu Sigma Rho, Pi Mu Epsilon, Dean's List all terms 4.0 Cumulative GPA | Winona, MN August 2017 – May 2017 |
| Certifications | 5-12 Mathematics Teaching License State of Minnesota – Department of Education File Folder Number: 500935 | Minnesota Expires June 2023 |
| Scholarships | Chancellor's Fellowship (UNL) Lorena W. Jacobson Scholarship (WSU) | 2017 2014-2017 |
| Competitions | MinneMUDAC Team won best serendipitous discovery | MinneAnalytics 2016 |
| | Midwest Undergrad Data Analytics Competition (MUDAC) Team received 3rd place | WSU 2016 |
| | Midwest Undergrad Data Analytics Competition (MUDAC) | WSU 2015 |
| 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. <i>Journal of Economic Entomology</i> , 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.. <i>Pest Management Science</i> , 2021. | |
| Research experience | Ph.D. Thesis at University of Nebraska - Lincoln Major Advisor: Susan VanderPlas Co-Advisor: Reka Howard Perception and decision making using statistical graphics. GitHub repository available here. | May 2020 – Present |
| | Statistical Cross-disciplinary Consulting and Collaboration Lab (SC3L) University of Nebraska - Lincoln 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. | January 2019 – Present |

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| | <p>Graduate Research Assistant</p> <p>Advisor: Reka Howard</p> <p>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.</p> | Summer 2018 |
| Teaching experience | <p>Graduate Teaching Assistant, Department of Statistics (UNL)</p> <p>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 feedback on consulting reports.</p> <p>STAT 825: Statistical Consulting, 3 credit hours SC3L Assistant (Fall 2019, Fall 2020) Assist in leading Friday class time, share past projects and experience, lead hands on activities and discussion, arrange for students to shadow SC3L meetings.</p> <p>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.</p> <p>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.</p> | |
| | <p>Sylvan Learning Center Tutor</p> <p>Sioux Falls, SD</p> <p>Worked with three K - 8 students at a time through reading, mathematics, and science modules. Worked one on one with high school students on ACT prep.</p> | Summer 2017 |
| | <p>Mathematics Student Teacher (Rushford, MN)</p> <p>HS Geometry, College Algebra Prep, Alternative Mathematics</p> <p>Lead daily class lessons, developed lesson plans, exams, and supplemental materials for learning. Aligned standards and met the 10 Standards of Effective Practice.</p> | Spring 2017 |
| | <p>Math Achievement Center Tutor</p> <p>Winona State University</p> <p>Provided homework guidance and studying tools to students enrolled in mathematics and statistics courses ranging from college algebra to calculus III and introductory statistics courses to probability and statistical inference.</p> | January 2014 - May 2016 |
| Industry experience | <p>Berkley Human Services</p> <p>Actuarial Internship</p> <p>Gathered and managed data on non-profit organizations. Collaborated with the Berkley Cooperative modeling team to identify common attributes between non-profits insured by the company using Tree Based Machine Learning methods.</p> | <p>Minneapolis, MN</p> <p>Summer 2017</p> |

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| | John Deere Financial Credit Risk Internship Developed a portfolio liquidation model using Multinomial Logistic Regression in SAS. Created an Excel user interface using macros. | Johnston, IA Summer 2016 |
| | John Deere Headquarters Statistics Internship Created and coded an R-shiny application for sales forecasting validation using the dplyr and ggplot2 packages in R. | Moline, IL Summer 2015 |
| 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 | Statistics Graduate Student Association, President University of Nebraska - Lincoln Responsibilities include leading orientation activities, planning monthly social events, community service projects, and providing student support. | July 2019 – Present |
| | ASUN Graduate Student Assembly, Statistics Rep University of Nebraska - Lincoln Responsibilities include attending monthly meetings that exercise the student governance of affairs solely involving graduate students at the university, as well as collaborate with the ASUN Senate, officers, and committees on issues affecting the entirety of the university's student body. | August 2019 - May 2020 |
| | Professional Development Committee University of Nebraska - Lincoln Responsibilities include organizing professional development opportunities for graduate students at the university and approving funding to individual department organizations for professional development purposes. | August 2019 - May 2020 |
| | IANR/CASNR Graduate Student Committee, Statistics Rep University of Nebraska - Lincoln Responsibilities include attending monthly meetings and assisting in representing all students within the Institute of Agriculture and Natural Resources. | August 2018 - May 2019 |
| | Math/Stat Club, President Winona State University Responsibilities included organizing student social and professional development events, including graduate school visits. Submit funding requests to student senate. | January 2014 - December 2016 |
| Professional memberships | American Statistical Association Attend Joint Statistical Meetings, participate in short courses for professional development, serve as session chair. | March 2015 – Present |