**Jessica Burow**

**Data Scientist**

Hartford, CT

Summary

Education

Published Work

Technical Skills

Work Experience

 www.linkedin.com/in/jessica-burow-51999974

Data-driven researcher, predictive analyst, and application enhancer with a cutting-edge insight of data science derived from producing multiple deliverables for a fortune 500 company

University of Nebraska, Lincoln

**M.S. Statistics**

**B.S. Math & Sociology** majors, Statistics minor

Smith, Jeffrey A. and Jessica Burow. "Using Ego Network Data to Inform Agent-Based Models of Diffusion." Sociological Methods & Research (2018), 46 pp.

* Enables social scientists to make inferences about an entire network through representative sampling with predictive models that reveal diffusion of collective social behaviors over time

Programming: R (H2O, Shiny), SAS, SQL

Data Storage: Oracle, Hadoop

Version Control: GitHub

Other: Excel

The Hartford Insurance Company, Hartford, CT

**Data Scientist** (Mar 2018 - Present)

**Associate Data Scientist** (Aug 2016 – Mar 2018)

**Data Science Intern** (May – Aug 2015)

* Prepared and processed datasets sized 7 million+ records with SQL in Oracle databases
* Extracted key insights from third party data vendors of 800+ variables with machine learning techniques in R such a LASSO, elastic net, ridge regression, random forest and gradient boosting machines
* Consulted with the Property and Liability actuarial team to provide class plan rating factors developed with SAS mixed models that reflect the predictive power of the current market
* Delivered enhanced functionality of a shiny application based tool for Product and Territory Analysts to interactively visualize indicated risk by state and coverage using heat maps
* Built strong partnerships by leading team meetings, all day training session, and presenting to executive leadership

University of Nebraska, Lincoln

**Graduate Teaching Assistant** (Aug 2014 – May 2016)

* Challenged undergraduate students to see the importance of understanding statistical concepts by engaging them from multiple perspectives
* Developed my aptitude in teaching by improving the course grade average by a full letter over the span of 3 semesters and 4 self-led classes, writing and grading entirely my own materials all of which were easily accessible for students on blackboard

Presentations

Volunteer

Additional

Employment

American Statistical Association: Women in Statistics and Data Science Conference (2016)

Northwestern University: Computational Social Science Summit (2015)

Oregon State: Infinite Possibilities Conference (2015)

Nebraska University: Conference for Undergraduate Women in Math (2012)

Violinist, Community Service, CT (June 2018 – May 2019)

Math Tutor, West Middle School, Hartford, CT (Aug 2016 - Mar 2018)

**Pen-Link, Lincoln, Nebraska**

Client Services Representative (Feb 2012 – Aug 2014)

* Consulted and trained national Law Enforcement to utilize software that traces criminal activity from cell phone records

**University of Nebraska, Lincoln (2010-2012)**

Social Network Analyst, UCARE sponsored research (2011-2012)

Graph Theory Network Analyst, UCARE sponsored research (2012)

Math Tutor, Math Department (2011-2012)

Survey Data Processing Intern (2010)

S.T.E.M. Social Science Research Intern (2010)