

# Danielle E. Williams

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## SPECIALIZED SKILLS

*Languages:* English (native), Spanish (conversational), Japanese (advanced), French (novice)

*Computer:* Excel, R/RStudio, Ruby/Rails, SQL, Python/Pandas/Scikit/Numpy, Java, Tableau, C, SPSS, Git

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## EDUCATION

### Bachelor of Arts in General Science - Mathematics

*August 2012 - May 2016*

*Grinnell College, Grinnell, IA*

- Related Coursework: Team Software Development, Research Methods (Psychology), Discrete Structures, Analysis and Design of Experiments, Statistical Modeling, Network Analysis, Algorithms and Object-Oriented Design, Linear Algebra, Functional and Imperative Problem Solving, Advanced Writing
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## RELATED COURSE ACTIVITIES

### Team Software Development

*January 2015 - May 2016*

- Collaborated with members of MICA (Mid-Iowa Community Action) to develop a web application to better the Iowa community by allowing users to easily access local resources that may be of benefit to them
- Practiced agile development techniques, working in iterative cycles to complete specific tasks with my peers
- Provided solutions to enhance the application's quality and optimize its performance

### Analysis and Design of Experiments, and Statistical Modeling

*January 2015 - December 2015*

- Examined experiments from varied disciplines to determine what makes effective experimental design
  - Explored and implemented knowledge of statistical techniques to effectively analyze experimental data
  - Incorporated techniques from areas such as Bayesian statistics, risk statistics and regression modeling to explore research questions throughout the semester
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## SELECTED LEADERSHIP EXPERIENCE

### Peer Mentor and Research Assistant

*Data Analysis and Social Inquiry Lab, Grinnell College*

*August 2015 – May 2016*

- Assisted students with research design for various projects, guided them in the use of statistical software, creating visualizations, and finding insights from their data
  - Aided faculty with formatting and cleaning large data sets for use in research projects
  - Provided class presentations and workshops for students to help improve their technical and analytic skills
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## ADDITIONAL EXPERIENCE

### Marketing Intern

*Nightowl Technologies, New York*

*June 2015 - August 2015*

- Aided in the expansion of the application's consumer base to include six large metropolitan areas across the United States
- Developed and expanded the community of users through social media marketing
- Utilized data to provide insight about consumer base in order to inform future decisions

### Writer

*Scarlet & Black Newspaper, Grinnell College*

*September 2012 – April 2015*

- Reported on various school-related events in creative ways in order to increase reader interest
  - Investigated student and community opinions on several issues
  - Mediated interactions between students and editors to ensure comfortable relations between them
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