

# Reilly Noonan Grant

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## Education

**MS/PhD in Computer Science**

September 2018- May 2018 (Expected)

*University of Massachusetts, Amherst, MA*

**Bachelor of Arts in Computer Science, Mathematics, and Statistics**

May 2018

*Grinnell College, Grinnell, IA*

Cumulative GPA: 3.76, Computer Science GPA: 3.93/4.00

Trustee Honor Scholarship: \$21,000

## Skills

**Notable Tools and Skills:** GNU/Linux System Administration, Functional Programming, Object Oriented Programming,  $\text{\LaTeX}$

**Computer Languages:** Java, C, Python, Haskell, OCaml, Scheme, Clojure, Bash, HTML/CSS

**Languages:** English (Native), Spanish (Intermediate), Chinese (Beginner)

## Research Experience

### Research Fellowships

*MedIX REU, Depaul University, Chicago , IL*

Summer 2017

- Used Word2Vec and K-means clustering to analyze Reddit data on mental health and perform topic modeling in Python
- Collaborated with a team of fellow REU students
- Submitted two papers which were accepted to conferences: *Automatic Extraction of Informal Topics from Online Suicidal Ideation* presented at the DTMBio workshop of CIKM and *Discovery of Informal Topics from Post Traumatic Stress Disorder Forums* presented at the DMBIH workshop of the ICDM

*Department of Computer Science, Grinnell College, Grinnell, IA*

Summer 2016

- Worked extensively with a program synthesis engine based on type theory
- Modified and extended OCaml code relating to tree manipulation, programming language implementation, and abstract data types
- Designed and developed an interface plugin for the synthesis engine in Emacs

**Assistant GNU/Linux System Administrator**

Summer 2015

*Department of Computer Science, Grinnell College, Grinnell, IA*

- Designed and implemented new greeter interface and software for the Grinnell College Computer Science and Mathematics Department's system of over 100 computers to facilitate advertisement for on-campus events
- Administered network-wide upgrade from Debian 7 to Debian 8 to the Computer Science Department's local computer network
- Studied Puppet administrative tool for presentation as an upgrade option to the college System Administrator

## Presentations

- Paper presentation: *Semi-Automated Program Synthesis*, at the Midwest Programming Language Conference, December, 2016

- Poster presentation: *Automatic Extraction of Informal Topics from Online Suicidal Ideation*, at the Council for Undergraduate Research's Research Experiences for Undergraduates Symposium, October, 2017
- Paper presentation: *Discovery of Informal Topics from Post Traumatic Stress Disorder Forums*, at the DMBIH Workshop of ICDM, November, 2017

## Publications

- *Automatic Extraction of Informal Topics from Online Suicidal Ideation* presented at the DTMBio workshop of CIKM 2017
- *Discovery of Informal Topics from Post Traumatic Stress Disorder Forums* presented at the DMBIH workshop of ICDM 2017, awarded best paper

## Academic Experience

### Computer Science Mentor

August 2017-December 2018

#### *Grinnell College, Grinnell, IA*

- Class mentor for *Imperative Problem Solving and Data Structures*, assisting students and professor both in and outside of class time
- Lead weekly review sessions for students
- Create study guides and learning tools to enrich understanding of concepts

### Computer Science Mentor

January 2018-May 2018

#### *Grinnell College, Grinnell, IA*

- Selected as class mentor for *Artificial Intelligence*, assisting students and professor both in and outside of class time
- Lead weekly review sessions for students
- Assist with grading Homework assignments

### Computer Science Grader

January 2015- May 2015 , August 2016-December 2016

#### *Grinnell College, Grinnell, IA*

- Graded *Functional Problem Solving* course
- Provided feedback to students to augment growth of their problem solving skills

### Mathematics Grader

August 2016-December 2016

#### *Grinnell College, Grinnell, IA*

- Graded *Calculus 1*
- Provided feedback to aid students in mastery of calculus

### Student Educational Policy Committee

August 2017-May 2018

#### *Grinnell College, Grinnell, IA*

- Elected member out of a major population of over 50
- Plan and organized study breaks
- Support efforts to increase department inclusion

## Community Engagement and Interests

- Member of Grinnell Pun Club
- Member of Grinnell Effective Altruism
- Member of Grinnell Contra and Swing Dance Club
- Marathon Finisher
- Volunteer and education contributor to the Greater Illinois Pediatric Palliative Care Coalition