

Reilly Noonan Grant

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Education

MS/PhD in Computer Science September 2018- May 2023 (Expected)
University of Massachusetts, Amherst, MA

Bachelor of Arts in Computer Science, and 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, L^AT_EX

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

Languages: English (Native), Spanish (Intermediate)

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

Graduate Employee Organization Steward September 2018-Present

UMass Amherst, Amherst, MA

- Attend monthly meetings organizing GEO activities
- Serve as resource for Graduate Employees to understand their rights through the union contract

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
- Member of UMass Ballroom Dance team