

Reilly Noonan Grant

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Education

MS in Computer Science

September 2018- May 2021 (Expected)

University of Massachusetts, Amherst, MA

Cumulative GPA: 3.94/4.00

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

Skills

Notable Tools and Skills: GNU/Linux System Administration, Functional Programming, Object Oriented Programming, \LaTeX

Computer Languages: Java, C, Python, Scheme, Bash (familiar). R, OCaml, HTML/CSS, Pyro, SQL(intermediate level of familiarity)

Languages: English (Native), Spanish (Intermediate)

Work Experience

Research Assistant *KDL RA, UMass Amherst, Amherst MA*

September 2018 - Present

- Read and experimented with pysc2, discovered modification technique to allow intervention for the Lab's DARPA XAI project
- Setup, automated, and regularly modified data collection on a remote system using the slurm job scheduler
- Created summary documents explaining findings and process for the rest of the lab
- Contributed to weekly review of pertinent literature
- Regularly discussed causal modeling theory in reference to lab projects
- Created a guide to facilitate onboarding of new lab members

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 workshops

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 and UltraMarathon Finisher
- Volunteer and education contributor to the Greater Illinois Pediatric Palliative Care Coalition