

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

Relevant Coursework: *Systems for Data Science, Machine Learning, Probabilistic Graphical Models, Advanced Algorithms*

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 experience, Functional Programming, Object Oriented Programming, \LaTeX , Familiar with ML, Experience working with Big Data, Map-Reduce, Spark, Mathematics, Statistics

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

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

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

Community Engagement and Interests

Graduate Employee Organization Steward

September 2018-Present

UMass Amherst, Amherst, MA

- Attend monthly meetings organizing GEO activities
- Organized department activities
- Helped members of the department access GEO resources

Student Educational Policy Committee

August 2017-May 2018

Grinnell College, Grinnell, IA

- Elected by peers
- Planned and organized study breaks
- Supported efforts to increase department inclusion and diversity

Miscellaneous

- 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