Conor P. McGrory

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EDUCATION

Princeton University, Princeton, NJ September 2012 - June 2016
Concentration: Computer Science (B.S.E.)

Falmouth High School, Falmouth, Maine September 2008 - June 2012
Cumulative GPA 99.97, top ten percent

TECHNICAL SKILLS & RELEVANT COURSES

Programming Languages: Python, Matlab, C, C++, Java, Scala, JavaScript, SQL, Bash, LaTeX

Technologies: UNIX, Apache Spark, Apache Oozie, SLURM

Math Courses: Analysis in a Single Variable (MAT 215), Honors Linear Algebra (MAT 217), Advanced Vector Calculus (MAT 203), Introduction to Graph Theory (MAT 375), Probability and Stochastic Systems (ORF 309), Advanced Logic (MAT 306)

Computer Science Courses: General Computer Science (COS 126), Algorithms and Data Structures (COS 226), Introduction to Programming Systems (COS 217), Reasoning About Computation (COS 340), Theory of Algorithms (COS 423), Artificial Intelligence (COS 402), Theoretical Machine Learning (COS 511)

Neuroscience Courses: Computational Neuroscience (Online through Coursera, University of Washington)

WORK & RESEARCH EXPERIENCE

Columbia University, New York, NY August 2019 - Present
Research Assistant, Paninski Lab

- Computational neuroscience lab at the Zuckerman Institute, headed by Prof. Liam Paninski
- Worked on team developing new method for analyzing calcium imaging data

New York University, New York, NY June 2018 - June 2019
Research Assistant, Savin Lab

- Computational neuroscience lab at the Center for Neural Science, headed by Prof. Cristina Savin
- Lab focuses on understanding circuit-level computational basis of memory
- Implemented statistical analysis pipelines for neural data in Python and Matlab
- Attended lab meetings and audited Prof. Savin's graduate course on modeling learning and memory

Bloomberg L.P., New York, NY September 2016 - May 2018
Software Engineer, Artificial Intelligence Team

- Worked on team that creates user profiles and recommendation systems to enhance user experience on Bloomberg Terminal
- Specific projects included developing a single software package that extracts useful information from user data, adapting the existing recommender systems to use this new pipeline, and writing scripts that compute specific usage statistics based on usage data
- Most work was in Python and used Apache Spark

Princeton University, Princeton, NJ September 2015 - September 2016
Research Assistant, Pillow Lab

- Computational neuroscience lab at Princeton Neuroscience Institute headed by Prof. Jonathan Pillow
- Worked on modifying an existing optimization algorithm to make it more effective for fitting statistical models of neural systems
- This became my Senior Thesis in the Computer Science department
- Also attended lab meetings and followed work being done by other members of lab

University of Colorado, Colorado Springs, CO June 2014 - August 2014
Research Intern, National Science Foundation REU Program

- Internship: "Machine Learning, Theory and Practice"
- Attended lectures on probability, statistics, and machine learning
- Spent ten weeks studying question generation and other related problems in the field of natural language processing (NLP)
- Developed and implemented a novel approach to the problem of automatically generating questions from input sentences
- Results were ultimately presented at an academic conference:

  Al Taouti F. Kalita J, McGrory C., Sentence Simplification For Question Generation. *International Conference of Computing and Communication Systems*. Presented April 9-10, 2015, Shillong, India.

Maine Medical Center, Scarborough, ME June 2013 - August 2013
Research Intern, Maine Medical Center Research Institute

- Worked at Vector Bourne Disease Lab, through Summer Student Research Program
- Completed data collection and analysis of West Nile Virus prevalence among mosquitoes in city of Portland, ME
- Wrote Java application to perform custom analysis on deer tick population data set for lab

DeLorme, Inc., Yarmouth, ME June 2011 - August 2011
Research Intern, MERITS Program

- Wrote C++ code for a prototype of a remote sensor that registers, counts, and identifies passing vehicles on a rural road

AWARDS

2016 Outstanding Computer Science Senior Thesis Prize, Princeton University
2012 National Merit Scholar
2012 Presidential Scholars Program, Candidate Qualifier
Eagle Scout, Boy Scouts of America (earned June 2010)