MAYANK AGRAWAL

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EDUCATION

University of Oxford   October 2016 - June 2017
Visiting Student, St. Anne's College

Swarthmore College   August 2014 - May 2018
Pursuing B.A. in Computer Science, Minors in Mathematics and Philosophy   GPA: 3.78 / 4.00

PROFESSIONAL EXPERIENCE

Mercury Fund   August 2016 - September 2016
Analyst Intern   *Houston, TX*
· Early stage venture capital fund with over $250 million focusing on companies in the U.S. Midcontinent
· Researched, analyzed, and evaluated startups integrating life sciences with artificial intelligence
· Presented to fund's partners and advisors about fundamentals and landscape of machine learning

Robotics Institute, Carnegie Mellon University   May 2016 - August 2016
Developer   *Pittsburgh, PA*
· Full-time developer for RoboTutor, a project to create educational AI for students ages 7 - 10
· Developed arithmetic tutors and designed motivational agent to instill growth mindset in learner
· Entered in competition for attempt to win $10 million and will be released as open-source afterwards

RESEARCH

Aguirre Lab, University of Pennsylvania   June 2015 - August 2015
Research Assistant   *Philadelphia, PA*
· Worked under Professors Geoffrey K. Aguirre and David Brainard to study melanopsin
· Measured pupil distortion in response to flickering light to characterize nonlinear filters in eye
· Constructed distributed computing setup to automatically communicate and run experiments

TECHNICAL PROJECTS

Spykes
· Open-source Python library created and maintained by Northwestern University's Kording Lab
· Developing new visualization and analytic methods to assist neuroscience researchers

GreenMon
· Created peer-to-peer system that dynamically turns on and off nodes in response to cluster usage
· Developed lightweight, scalable algorithm to bypass communication and avoid usage of master node
· Estimated power usage reduction of roughly 80% in schoolwide computing cluster

TEACHING

Swarthmore College   August 2015 - May 2016
Student Academic Mentor   *Swarthmore, PA*
· Guided first-year students in making transition from high school to college
· Held biweekly study breaks to teach fundamental study skills such as note taking and scheduling
· Organized and moderated panel for students at the end of freshman year

Swarthmore College   January 2015 - May 2015
Computer Science Ninja   *Swarthmore, PA*

· Teaching Assistant for CS 21: Introduction to Computer Science with Professor Jason Waterman
· Helped students during class as well as held weekly lab help sessions in the evenings
· Developed ability to quickly find bugs and explain abstract concepts to beginner students

Breakthrough Houston   June 2013 - August 2013 & June 2014 - August 2014
Teaching Fellow   *Houston, TX*

· Taught 7th and 8th grade algebra to highly-motivated, inner city middle school students
· Wrote own lesson plans and implemented multiple research-driven pedagogical techniques
· Piloted Breakthrough Pals Initiative to develop leadership skills among 9th grade students

TECHNICAL SKILLS

Computer Languages	Python, C++/C, Java, MATLAB, R
Tools	LaTeX, Unix, git, OpenCV, MPI, Android Studio, NumPy, CUDA

EXTRACURRICULARS

NCAA DIII Varsity Cross Country, Track & Field

HONORS & AWARDS

2016	John W. Nason Community Service Fellowship
2014	Philip Evans Scholar