

# Samuel Moseley

Bachelor of Science, Computer Science  
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Citizenships: US, Swiss, Irish (EU), Israeli  
Languages: English (fluent), French (working),  
German (Basic), Spanish (Basic)  
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## Experience

### **BlackRock, Software Engineer Intern (New York, NY)**

*May 2018 – Aug 2018*

Incoming Software Engineer Intern on the data team.

### **Database Research with Professor Trummer (Ithaca, NY)**

*Feb 2017 – Present*

Researching a new database query-planning algorithm that aims to reduce the frequency of common unreliable query processing times due to inaccurate assumptions about query conditions. The algorithm uses reinforcement learning as well as game theory. A paper has been submitted and is in review for VLDB, an international database conference. A publication is in progress and extensions of the research are being investigated.

### **Machine Learning Consultant, Omelas (Ithaca/New York, NY)**

*Feb 2018 – Present*

Machine Learning Consultant for Omelas. Working on developing computer vision models to do sentiment classification.

### **LendUp, Software Engineer Intern (San Francisco, CA)**

*Jun 2017 – Aug 2017*

Designed, implemented, and launched an event stream to handle incoming customer data from website, email, and phone tracking. Helped bring Apache Kafka onboard and provided the infrastructure to upgrade the event stream service with Kafka, which provided additional performance gains.

### **KPMG Innovation Lab, Intern (New York, NY)**

*Jun 2015 – Aug 2015*

Worked on research and presentations for major corporations. Research was largely focused on advising corporations on millennial trends and where innovation could be valuable.

### **IBM, Research Intern (Yorktown Height, NY)**

*Jun 2012 – Aug 2014*

Worked on superconductor computer chip design. Designed chips to test kinetic inductance of new materials that were being considered to replace conventional inductors in superconductor processors. This was done in conjunction with a science research class.

## Education

### **Cornell University, College of Engineering**

*Master of Engineering, Computer Science (admission tentative)*

*Aug 2018 – Dec 2018*

*Bachelor of Science, Computer Science*

*Aug 2014 – May 2018*

TA experience: Database Systems Fall 2017 • Machine Learning Spring 2018

Computer Science courses: system architecture • data structures • functional programming • compilers  
database systems • machine learning (undergraduate and graduate courses) • distributed computing  
natural language processing

Mathematics: calculus • linear algebra • discrete structures • mathematical modeling

## **Team Involvement**

### **CUAir**

*Vision Team*

*Sep 2014 – Present*

*May 2017 – Present*

CUAir designs, builds, and flies an autonomous airplane that competes in AUVSI, an autonomous vehicle competition held annually in Maryland. The team has several sub-teams, including Vision. Vision's goal is to create an automatic target identification, localization, and classification system. We use machine learning and computer vision libraries to implement our system. As Vision Lead, I am heavily involved in recruiting, coordinating projects between sub-teams, and providing the resources necessary for my team to succeed.

### **Cornell Cycling Club**

*Treasurer*

*President*

*Sep 2014 – Present*

*Aug 2015 – May 2016*

*Aug 2016 – Present*

Organized training rides and camps, social events, and racing trips. Acquired over \$30k in sponsorship for the team. Acquired equipment sponsorship for and introduced a new loaner bike program to encourage women's cycling. I have twice attended Division I Nationals, both times placing top-15 out of 150.

### **Cornell Nordic Ski Club**

*President*

*Sep 2014 – Present*

*Aug 2016 – May 2017*

Organized training camps, socials events, and racing trips. Also budgeted for team equipment and clothing purchases.

### **Foundation Cycling Team**

*Jan 2014 – April 2017*

Raced as a part of a multi-national team in professional races across the US, Canada, Belgium, Ecuador, Trinidad and Tobago, and the Dominican Republic. I won the 107-mile Elite New York State Road Cycling Championship in 2014, setting the record for youngest winner.