

David Millard

<https://dmillard.github.io>

Ph.D. Student
Cognitive Learning, Vision, and Robotics Lab
Computer Science Department
University of Southern California

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Education

University of Southern California Los Angeles, California Ph.D. Student, Department of Computer Science Advised by Gaurav Sukhatme	August 2018 - May 2023 (expected) GPA 4.00/4.00
University of Georgia Athens, Georgia Bachelor of Science, double major in Math and Computer Science	August 2010 - May 2014 GPA 3.94/4.00
University of Oxford Oxford, England International Conflict course	May 2011 - June 2011

Work experience

X (formerly Google X) Mountain View, California Software Engineer, Robotics Built perception systems for mobile base navigation Designed and developed sequence learning models for dynamic obstacle prediction and avoidance	December 2015 - June 2018
Microsoft Corporation Redmond, Washington Software Development Engineer, Windows 10 Photos Developed photo viewer application served to millions of customers (C#/C++)	July 2014 - November 2015

Awards

Computer Science Outstanding Undergraduate with Distinction University of Georgia. Awarded to the best student in the Computer Science department.

Foundation Fellowship The University of Georgia's top academic undergraduate scholarship, providing tuition and living stipends, and conference, travel, and scholastic development grants. (80 Foundation Fellows out of 26,000 undergraduates)

Robert C. Byrd Honors Scholarship Federal four-year merit scholarship for undergraduates.

Research experience

- Robotics Embedded Systems Lab** University of Southern California August 2018 -
Graduate Research Assistant
- Cognitive Learning for Vision and Robotics Lab** University of Southern California August 2018 -
Graduate Research Assistant
- THINC Lab** University of Georgia January 2013 - June 2014
Undergraduate Research Assistant
Implemented a framework using ROS to run multi-agent decision making algorithms on quadrotors.
Developed approximation algorithms for Interactive Partially Observable Markov Decision Processes.
- Schindelhauer Lab** University of Freiburg May 2012 - July 2012
Visitor
Developed and implemented models for sonic localization of robot swarms or mapping applications.
- Schools Improvement Initiative** University of Cape Town June 2013 - August 2013
Visitor
Collected data on community outreach strategies and technological education curricula.
Repaired hardware, trained teachers, and installed software and wikis at schools with limited resources.
- Promislow Lab** University of Georgia July 2011 - January 2013
Undergraduate Research Assistant
Developed computational models backing a new hypothesis for post-reproductive organism lifespan.

Leadership

- Greyhills Academy Robotics Pilot** Tuba City, Navajo Nation, Arizona April 2018
With another Googler, organized and taught a two day robotics pilot course for students living in the Navajo nation.
Developed a continuing partnership between Google and Greyhills academy, and set the schedule for future collaboration.
- UGA Mathcounts Outreach** University of Georgia August 2013 - May 2014
President
Coordinated board meetings and set organizational direction for a 200+ member student volunteer tutoring organization.
Expanded reach from 8 to 11 middle schools and increased focus on students in need.
Volunteer Coordinator August 2012 - May 2013
Coordinated 200+ student volunteers at 8 local middle schools, distributing curriculum materials and establishing contact with school administrations.
- Free IT Athens** Athens, Georgia August 2009 - May 2014
Staff Member
Trained volunteers in building computers and interacting with customers.
Taught classes in basic computer use to low-income Athens residents.