

David Millard

<https://dmillard.github.io>

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

Ronald Tutor Hall Room 420
3710 McClintock Ave
Los Angeles, CA 90089
dmillard@usc.edu

Education

University of Southern California Los Angeles, California	August 2018 - May 2023 (expected)
Ph.D. Student, Department of Computer Science	GPA 4.00/4.00
Co-advised by Gaurav Sukhatme and Joseph Lim	

University of Georgia Athens, Georgia	August 2010 - May 2014
Bachelor of Science, double major in Math and Computer Science	GPA 3.94/4.00

University of Oxford Oxford, England	May 2011 - June 2011
International Conflict course	

Work experience

X (formerly Google X) Mountain View, California	December 2015 - June 2018
Software Engineer, Robotics	
Built perception systems for mobile base navigation	
Designed and developed sequence learning models for dynamic obstacle prediction and avoidance	

Microsoft Corporation Redmond, Washington	July 2014 - November 2015
Software Development Engineer, Windows 10 Photos	
Developed photo viewer application served to millions of customers (C#/C++)	

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.