David Millard

https://dmillard.github.io

Ph.D. Student	Ronald Tutor Hall Room 426
Cognitive Learning, Vision, and Robotics Lab	3710 McClintock Ave
Computer Science Department	Los Angeles, CA 90089
University of Southern California	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
Advised by Gaurav Sukhatme

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
　　　President　　　　　　　　　　　　　　　　　　　　August 2013 - May 2014
　　　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.