

DAVID GRAY WIDDER

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Institute for Software Research
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Education

School of Computer Science, Carnegie Mellon University, Pittsburgh, Pennsylvania

2017 – Present

Pursuing a PhD in Software Engineering

Advisors: Laura Dabbish and James Herbsleb

Robert D. Clark Honors College, University of Oregon, Eugene, Oregon

2013 – 2017

Bachelor of Science in Computer Science, GPA: 3.95, Major GPA: 4.15, *Magna Cum Laude*

Advisor: Stephen Fickas

Related Work Experience

Microsoft Research, Microsoft Corporation, Redmond, Washington

February – May 2020

Research Intern, Conducted Interviews investigating how Software Engineers Implement Ethical AI

Jet Propulsion Laboratories, National Aeronautics and Space Administration, Pasadena, California

June – August 2019

Flight Software Framework Usability Engineer, worked on Trust in Software Engineering Tools

Peer Reviewed Publications

David Widder, Michael Hilton, Christian Kästner, and Bogdan Vasilescu. “A Conceptual Replication of Continuous Integration Pain Points in the Context of Travis CI”. In: *Proceedings of the Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (FSE)*, 2019. [Link](#). 24% acceptance rate.

David Widder, Joshua Sunshine, Stephen Fickas. “Barriers to Reproducible Scientific Programming”. In: *Proceedings of the Symposium on Visual Languages & Human-Centric Computing (VL/HCC)*, 2019. 44% acceptance rate. [Link](#).

Zack Coker, **David Widder**, Claire Le Goues, Christopher Bogart, and Joshua Sunshine. “A Qualitative Study on Framework Debugging”. In: *Proceedings of Intl. Conf. on Software Maintenance and Evolution (ICSME)*, 2019. 23% acceptance rate. [Preprint](#).

Courtney Miller, **David Widder**, Christian Kästner, and Bogdan Vasilescu. “Why do People Give Up FLOSSing? A Study of Contributor Disengagement in Open Source”. In: *Proceedings of the Intl. Conf. on Open Source Systems (OSS)*, 2019. [Link](#).

David Widder, Christian Kästner, Michael Hilton, Bogdan Vasilescu. “I’m Leaving You, Travis: A Continuous Integration Breakup Story”. In: *Proceedings of the Intl. Conf. on Mining Software Repositories, Short Research Papers Track (MSR)*, 2018. [Link](#). 27% acceptance rate.

Students Mentored

Hana Frluckaj, 2019 – Present
Courtney Miller, 2018 – Present
Sophie Rosas-Smith, 2018

Institutional Service

Dean's PhD Advisory Committee, Co Director, 2017 - Present

Advocating for SCS PhD student interests to Dean: healthcare, diversity, and social inclusion

Departmental Climate Task Force, Student Co-Chair, 2018 - 2019

Committee tasked with improving departmental climate, inclusiveness, and diversity

Research Experience for Undergraduates in Software Engineering Mentor, 2018

Mentored two summer undergraduate research interns as part of the REUSE summer program

Research Experience for Undergraduates in Software Engineering Application Committee, 2017, 2018

Reviewed 35 applications for the REUSE program.

Non-Refereed Publications

David Widder. "Gender in Open Source Communities: Different Migration Patterns and Forms of Work". *VL/HCC Graduate Consortium*, 2019.

David Widder. "Tensions Between Scientific Programming and the Scientific Method". *Undergraduate Honors Thesis*. Pass with Honors, 2017.

David Gray Widder. "What Are Barriers to Efficient ROS Debugging?" *REUSE Poster Session*. 2016.

Professional Service

Intl. Conf. on Automated Software Engineering, 2018 Sub Reviewer

Transactions on Software Engineering, 2018 Sub Reviewer

Honors and Awards

Clarence and Lucille Dunbar Scholarship, 2016

Awarded to 26 undergraduates studying natural sciences, 16% acceptance rate, \$2,000

General University Scholarship, 2016-2017

University award for academic merit, \$5,200 total

William L. Hanks Scholarship, 2015

Awarded to 8 undergraduates studying physical sciences, 16% acceptance rate, \$2,000

Barry Goldwater Scholarship nominee, 2015

Geoffery Wright Outstanding Junior Scholarship, 2013

Awarded to 1 student taking junior-level classes for academic merit in CS, \$1,000

Summit Scholarship, 2013

Awarded to incoming freshman for academic merit, \$20,000

Honors College Deans List, 2013-2017

Memberships

Association for Computing Machinery

ACM Special Interest Group on Software Engineering

Upsilon Pi Epsilon, Honor Society for Computing and Information Disciplines

Phi Beta Kappa, Liberal Arts Honors Society