

DAVID GRAY WIDDER

Institute for Software Research
School of Computer Science
Carnegie Mellon University

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Research Interests and Approach

I use qualitative and quantitative methods to help developer communities choose and use tools more effectively.

Education

School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, USA

2017 – Present

Pursuing a PhD in Software Engineering

Advisor: Bogdan Vasilescu

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

2013 – 2017

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

Advisor: Stephen Fickas

Peer Reviewed Publications

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](#).

Preprints & Works in Progress

Courtney Miller, **David Widder**, Christian Kästner, and Bogdan Vasilescu. “New Baby, No Support, and Lost Interest: Why Open-Source Contributors Disengage”. [Link](#).

David Widder, Michael Hilton, Christian Kästner, and Bogdan Vasilescu. “No Tests, No Docker, Too Much Pain: Why Abandon Continuous Integration?”. [Link](#).

Zack Coker, **David Widder**, Christopher Bogart, Joshua Sunshine, and Claire Le Goues. “A Qualitative Study on Framework Debugging”. [Link](#).

Non-Refereed Publications

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.

Institutional Service

Departmental Climate Committee, Co Chair, 2018 - Present

Committee tasked with improving departmental climate, inclusiveness, and diversity

SCS4ALL PhD Initiative, 2017 - Present

Dean appointed group to advocate for PhD student interests

Research Experience for Undergraduates in Software Engineering Mentor, 2018

Mentored two summer undergraduate research interns

Research Experience for Undergraduates in Software Engineering Application Committee, 2017

Reviewed 35 applications for Summer Research Program

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

Research Experience

Graduate Research Assistant, Carnegie Mellon University

August 2017 — Present

Studying how and why software communities choose, switch, and abandon DevOps tools

Research Assistant, Institute for Software Research, Carnegie Mellon University

June — September 2016

Designed and conducted think-aloud studies to understand framework usability barriers

Research Assistant, Computer and Information Science, University of Oregon

June — September 2015

Built a cross platform app to track steps as part of a social fitness research project

Research Assistant Computer and Information Science, University of Oregon

June — September 2014

Employed user centered design principles to prototype an online therapy system for youth with concussions and their doctors

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