DAVID GRAY WIDDER

Institute for Software Research
School of Computer Science
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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 Doctor of Philosophy 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, Magna Cum Laude
Advisor: Stephen Fickas

Publications Under Review

Courtney Miller, **David Widder**, Christian Kästner, and Bogdan Vasliescu. "New Baby, No Support, and Lost Interest: Why Open-Source Contributors Disengage". In submission to: *Intl. Conf. on Software Engineering - New Ideas and Emerging Results (ICSE–NIER)*.

David Widder, Michael Hilton, Christian Kästner, and Bogdan Vasliescu. "No Tests, No Docker, Too Much Pain: Why Abandon Continuous Integration?". In submission to: *Intl. Conf. on Software Engineering (ICSE)*.

Zack Coker, **David Widder**, Christopher Bogart, Joshua Sunshine, and Claire Le Goues. "A Qualitative Study on Framework Debugging". *I*n Submission to: *IEEE Transactions on Software Engineering (TSE)*.

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.

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, 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, Sub Reviewer
Transactions on Software Engineering, 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