David Gray Widder

313 TCS Hall
School of Computer Science, Carnegie Mellon University
5000 Forbes Ave, Pittsburgh PA, 15213

(541) 870-5750
dwidder@cmu.edu
www.davidwidder.me

Education

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

- PhD student advised by Laura Dabbish & James Herbsleb, 2017- Present
- Masters of Science in Software Engineering, 2017-2021

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*

Related Work Experience

Research Intern, Microsoft Research, Redmond, Washington February – May 2020

- Interviewed pilot adopters of Ethical AI guidance to uncover technical and organizational successes and challenges
- Presented findings to C-suite decision maker to inform internal Ethical AI policy roll out

Research Intern, Jet Propulsion Laboratory, NASA, Pasadena, California June – August 2019

- Designed and conducted muti-method ethnographic research including interviews, participant observation, and think-aloud user studies on software set to run on an upcoming space mission
- Presented and recommended solutions to usability barriers to managers, software engineers and usability experts to improve prototype software

Peer Reviewed Publications

David Widder, Laura Dabbish, James Herbsleb, Alexandra Holloway, Scott Davidoff. "Trust in Collaborative Automation in High Stakes Software Engineering Work: A Case Study at NASA". To appear in: *Proceedings of the Conference on Human-Computer Interaction* (CHI), 2021. 26% acceptance rate. Link

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. 24% acceptance rate. Link.

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 Vasliescu. "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. 27% acceptance rate. Link.

Students Mentored

Hana Frluckaj, 2019 – 2020, incoming PhD Student at University of Texas at Austin
Courtney Miller, 2018 – 2019, incoming PhD Student at Carnegie Mellon University
Sophie Rosas-Smith, 2018, Software Engineer at JP Morgan Chase

Institutional Service

Dean's PhD Advisory Committee, Co Director, 2017 - 2020, Member, 2020 - 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, 2018-Present
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

Conference on Computer Human Interaction, 2020 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, & Special Interest Group on Software Engineering
Upsilon Pi Epsilon, Honor Society for Computing and Information Disciplines
Phi Beta Kappa, Liberal Arts Honors Society