

DAVID GRAY WIDDER HE/HIM/HIS

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Education

School of Computer Science, Carnegie Mellon University, Pittsburgh, Pennsylvania, 2017- Present

- › Doctoral student advised by Laura Dabbish & James Herbsleb
- › Masters of Science in Software Engineering, 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, Socio-technical Systems Lab, Intel Labs. Remote. July 2021 – Present

- › Interviewed 27 AI engineers to investigate perceived ethical agency and responsibility
- › Presented internally five times to 150+ people, now implementing Ethical AI processes improvements

Research Intern, Ability Team, 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, Human Centered Design Group, Jet Propulsion Laboratory, NASA. Pasadena, California. June – August 2019

- › Designed and conducted multi-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”. In: *Proceedings of the Conference on Human-Computer Interaction (CHI)*, 2021. 26% acceptance rate. [Link](#), [Video](#).

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. [Link](#).

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](#).

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.

Students Mentored

Hana Frluckaj, 2019 – 2020, PhD Student at University of Texas at Austin

Courtney Miller, 2018 – 2019, PhD Student at Carnegie Mellon University

Jamie Rosas-Smith, 2018, Software Engineer at JP Morgan Chase

Institutional Service

Dean's PhD Advisory Committee, Co Director, 2017 - 2020, Member, 2020 - 2021

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, 2021

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

Research Experience for Undergraduates in Software Engineering Application Committee, 2018-Present

Review 22-35 applications yearly for the REUSE undergrad summer research program.

Professional Service

Conference on Human-Computer Interaction, 2021 Reviewer

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

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