

# DAVID GRAY WIDDER

5119 Wean Hall  
Institute for Software Research  
School of Computer Science  
Carnegie Mellon University

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

## Education

---

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

2017 – Present

Pursuing a PhD in Software Engineering

Advisors: Laura Dabbish and James Herbsleb

### **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

## Related Work Experience

---

### **Jet Propulsion Laboratories, National Aeronautics and Space Administration**

June 2019 – 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