Education

2023 | University of California, Irvine

(Expected) | Doctor of Philosophy in Software Engineering

 $\label{thm:continuous} Working\ Dissertation:\ Supporting\ Software\ Developers\ with\ Activity\ Event\ Analyses$

and a Management Console for Automation

Committee: David Redmiles (chair), James A. Jones, and Anita Sarma

Jul. 2018 University of California, Irvine

Master of Science in Software Engineering

Thesis: Expertise Location Approaches and Systems in Software Engineering

Committee: David Redmiles (chair), James A. Jones, and Yi Wang

Dec. 2014 | University of Nebraska, Lincoln

Bachelor of Science, double major in Computer Science and Mathematics

Professional Experience

2022-Present | Software Engineering Researcher, SAP Labs, Newport Beach

-conduct embedded software engineering research with the leadership team, and work collaboratively with several scrum teams and product management colleagues. -review the state-of-the-art of workplace experience (academia and industry), and

continuously improve development processes and workplace experience at the site.

2017-Present | Graduate Research Assistant, University of California, Irvine

-identify current SE knowledge gaps through systematic literature reviews.

-leverage information retrieval techniques to collect and clean empirical data of OSS developer activities.

-employ statistical learning models to predict software developers' behaviors and project outcomes.

-implement research prototypes and conduct usability evaluations.

2017–2019 | Teaching Assistant/Course Reader, University of California, Irvine

-assisted with mentoring software engineering graduate students;

-assisted with instructing Informatics courses, including:

IN4MATX 43: Introduction to Software Engineering

IN4MATX 141: Information Retrieval

IN4MATX 143: Information Visualization

SWE 211: Software Engineering

SWE 212: Analysis of Programming Language

2015–2016 | Software Engineer, Deshi Electronic Technologe, Ltd., Hangzhou

-implement a controller iOS app for classroom multimedia devices

-implement web applications for in-class interactive education

2015 Undergraduate Research Fellow, University of Nebraska, Lincoln

-develop research prototype: develop a visualization for app variations

-research data analysis: conduct pilot user study and analyze study video Supervised by Dr. Anita Sarma and Dr. Gregg Rothermel, Funded by NSF

2013–2014 Undergraduate Research Assistant, University of Nebraska, Lincoln

- -user study: conduct user studies with prospective users of an app, and qualitatively analyze interaction data.
- -log analysis: analyze participant activity in a web IDE during a user experiment. Supervised by Dr. Anita Sarma, Funded by NSF

Journal Publications

- Yisi Han, Zhendong Wang, Yang Feng, Zhihong Zhao, and Yi Wang. Cross-status communication and project outcomes in oss development: A language style matching perspective. *Empirical Software Engineering*, 2023, to appear
- J5 Zhendong Wang, Yi-Hung Chou, Kayla Fathi, Tobias Schimmer, Peter Colligan, David Redmiles, and Rafael Prikladnicki. Co-designing for a hybrid workplace experience in software development. *IEEE Software*, 2022
- J4 Zhendong Wang, Yi Wang, and David Redmiles. From specialized mechanics to project butlers: the usage of bots in OSS development. *IEEE Software*, 2022
- J3 Sandeep Kaur Kuttal, Xiaofan Chen, Zhendong Wang, Sogol Balali, and Anita Sarma. Visual Resume: Exploring developers' online contributions for hiring. Information and Software Technology, 138:106633, 2021
- J2 Zhendong Wang, Yang Feng, Yi Wang, James A. Jones, and David Redmiles. Unveiling elite developers' activities in open source projects. *ACM Trans. Softw. Eng. Methodol.*, 29(3), June 2020
- J1 Sandeep Kaur Kuttal, Anita Sarma, Gregg Rothermel, and Zhendong Wang. What happened to my application? Helping end users comprehend evolution through variation management. *Information and Software Technology*, 103:55 74, 2018

Conference Publications

- C5 Yi-Hung Chou, Zhendong Wang, Tobias Schimmer, Rafael Prikladnicki, and David Redmiles. Adapting software teams to the new normal: An early case study of transitioning to hybrid work under COVID-19. In *Proceedings of the 56th Hawaii International Conference on System Sciences*, 2022
- C4 Yisi Han, Zhendong Wang, Yang Feng, Zhihong Zhao, and Yi Wang. Cross-status communication and project outcomes in OSS development-A language style matching perspective. In *Proceedings of the ACM/IEEE 18th International Conference on Mining Software Repositories, Registered Reports*, 2021
- C3 Yi Wang, Zhendong Wang, and David Redmiles. The co-evolution of trust and coordination in global software development teams-an extensible evolutionary game theory model. In *Proceedings of the 52nd Hawaii International Conference on System Sciences*, 2019
- C2 Zhendong Wang, Yi Wang, and David Redmiles. Competence-confidence gap: A threat to female developers' contribution on GitHub. In 40th International Conference on Software Engineering 2018, Software Engineering in Society, 2018
- C1 Anita Sarma, Xiaofan Chen, Sandeep Kuttal, Laura Dabbish, and Zhendong Wang. Hiring in the global stage: Profiles of online contributions. In 2016 IEEE 11th International Conference on Global Software Engineering (ICGSE), pages 1–10, Aug 2016, [Best Paper Award]

Short Publications and Posters

- S3 Zhendong Wang, Yang Feng, Yi Wang, James A Jones, and David Redmiles. Elite developers' activities at open source ecosystem level. In *Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering: Companion Proceedings*, pages 312–313, 2020
- S2 Zhendong Wang. Assisting the elite-driven open source development through activity data. In *Proceedings of the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pages 1670–1673, 2020
- S1 Rafael Leano, Zhendong Wang, and Anita Sarma. Labeling relevant skills in tasks: Can the crowd help? In 2016 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), pages 185–189, Sep 2016

Invited Presentations

- P5 "Assisting the Elite-driven Open Source Development through Activity Data", the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, Doctoral Symposium, Online, Nov 2020
- P4 "Unveiling Elite Developers' Activities in Open Source Projects", Southern California Software Engineering Symposium (SuCSES), University of California, Irvine, CA, Jun 2019
- P3 "Expertise Location in Software Engineering", ISR Research Forum, University of California, Irvine, CA, Jun 2018
- P2 "Competence-confidence Gap: A Threat to Female Developer's Contribution on Github", Gothenburg, Sweden, May 2018
- P1 "Visual Resume: Hiring in the global stage using card-based developer profiles of online contribution", ISR Research Forum, University of California, Irvine, CA, Jun 2017

Service to Academic Communities

- 2023 **Project Contact** and **Mentor**, Capstone Projects for MSBA and MCS students from UCI with Eureka by SAP, Newport Beach, CA
- 2022 Panelist, Student Panel of new graduate welcoming event, Informatics Graduate Student Association (IGSA), University of California, Irvine, CA
- 2020 Panelist of Conversations on Productivity within the Paper Presentations, the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), Online
- 2018 **Student Volunteer**, the 40th ACM/IEEE International Conference on Software Engineering, Gothenburg, Sweden
- 2017–2018 **Treasurer**, Informatics Graduate Student Association (IGSA), University of California, Irvine

Service to Research Communities

2022	External Reviewer, IEEE Software
2022	Program Committee, track of Registered Reports, the 16th ACM/IEEE Interna-
	tional Symposium on Empirical Software Engineering and Measurement, Helsinki,
	Finland
2021	External Reviewer, the Journal of Systems and Software, Elsevier
2021	Program Committee, the 2021 Conference on Empirical Methods in Natural Lan-
	guage Processing, Online and in the Barceló Bávaro Convention Centre, Punta Cana,
	Dominican Republic
2021	Shadow Program Committee, the 2021 Mining Software Repository Conference,
	Online
2019	External Reviewer, the 25th ACM Conference on Intelligent User Interface,
	Cagliari, Italy
2018	External Reviewer, assisted with reviews for the 41st ACM/IEEE International
	Conference on Software Engineering, NIER track
2018	External Reviewer, assisted with reviews for the 16th ACM European Conference
	on Computer-Supported Cooperative Work
2018	External Reviewer, the 21st ACM Conference on Computer-Supported Coopera-
	tive Work and Social Computing

Students Mentored

2022	Yi-Hung Chou, current master student of Software Engineering at UCI
2022	Yisi Han, current Ph.D. student of Software Engineering at Nanjing University
2021	Tian Guan, Senior Software Developer, Oracle Cloud Infrastructure
2020-2021	Yunlong Song, Software Developer, Airwallex
2020-2021	Alissa Powers, Software Developer, Office of Information Technology, University of
	California, Irvine

Primary Methods and Technical Skills

Research	Interview, Survey, Experiment Design, Log Analysis, Usability Testing, Prototyping, Co-Design, Design Critiques, Systematic Literature Review (SLR)
Data Science	Descriptive and inferential statistics, Applied NLP, Applied Machine Learning, Data Visualization, Information Retrieval
SDE	Python, JavaScript, R, git

Professional Membership

Since 2022 | Member, SIGSOFT

Awards

2020	Doctoral Symposium, the 28th ACM Joint Meeting on European Software En-
	gineering Conference and Symposium on the Foundations of Software Engineering,
	Online
2018	NSF Travel Grant, for 40th International Conference on Software Engineering,
	Gothenburg, Sweden
2018	Chair's Award, Department of Informatics, University of California, Irvine
2016	Best Paper Award, for 11th International Conference on Global Software Engi-
	neering, Irvine
2013 – 2014	Nomination of CSE Student Researcher Award, University of Nebraska, Lincoln
2013	Dean's List, University of Nebraska, Lincoln
2012 – 2014	Partnership Development Program Scholarship, University of Nebraska, Lin-
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