

Brittany Reid

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Research Interests

Code Reuse, Collaborative Software Engineering, Software Ecosystems, Code Recommendation Systems, Open Source Software, Empirical Software Engineering, AI4SE

Employment

2023-Current

Nara Institute of Science and Technology

Post-doctoral Researcher
Software Engineering Lab

Education

2020-2023

University of Adelaide

PhD in Computer Science

Thesis: Improving Developer Efficiency through Code Reuse

2019

University of Adelaide

Honours Degree of Bachelor of Computer Science

GPA: 6.5

Honours Project:

- Developed a plug-in for code editor Eclipse that automatically integrates code snippets from programming question and answer site Stack Overflow given a task.

2016 - 2018

University of Adelaide

Bachelor of Computer Science

Publications and Research

Jaisri, P., Reid B., and Kula, R. G.. (2024) "A Preliminary Study on Self-Contained Libraries in the NPM Ecosystem." [To be published in Springer, Studies in Computational Intelligence Series (SCIS)]

Reid B., Treude, C., and Wagner, M. (2023) "Using the TypeScript compiler to fix erroneous Node. js snippets." *2023 IEEE 23rd International Working Conference on Source Code Analysis and Manipulation (SCAM)*. IEEE.

Reid, B., d'Amorim, M., Wagner, M., & Treude, C. (2023). "NCQ: code reuse support for Node.js developers". *IEEE Transactions on Software Engineering*.

Reid, B., Wagner, M., d'Amorim, M., & Treude, C. (2022). "Software Engineering User Study Recruitment on Prolific: An Experience Report". *arXiv preprint arXiv:2201.05348*. [Accepted in 1st International Workshop on Recruiting Participants for Empirical Software Engineering (RoPES'22)]

Chinthanet, B., Reid, B., Treude, C., Wagner, M., Kula, R. G., Ishio, T., & Matsumoto, K. (2021). "What makes a good Node.js package? Investigating Users, Contributors, and Runnability." *arXiv preprint arXiv:2106.12239*.

Reid, B., Treude, C., & Wagner, M. (2020, July). "Optimising the fit of stack overflow code snippets into existing code." In *Proceedings of the 2020 Genetic and Evolutionary Computation Conference Companion* (pp. 1945-1953).

Publications available on [Google Scholar](#)

Community Engagement

2024

WIREDS Workshop Organizing Team

International Workshop on Intertwining Research & Education on Software, Osaka, Japan

2024

SANER 2025 PC Member

Main Track, RENE Track

Scholarships and Awards

2024

Nara Institute of Science and Technology, Senju Monju Project

The NAIST Senju Monju Project provides broad support to young researchers at NAIST to initiate new research based on their own Ideas.

2020-2023

Research Training Program (RTP) Stipend

Funded by the Australian Government to support full time PhD and Master by Research students who are commencing, or currently undertaking a higher degree by research program.

2019 & 2018

Executive Dean's Award for Outstanding Completion of the ECMS Volunteer and Ambassador Program

Awarded to ECMS Ambassadors who have volunteered more than

30 hours in the ECMS Volunteer & Ambassador Program.

Volunteering

2023

International Conference on Software Maintenance and Evolution (ICSME) 2023

Student Volunteer (In Person), Bogota, Colombia

2023

International Conference on Software Engineering (ICSE) 2023

Student Volunteer (In Person), Melbourne, Australia

2018 - 2019

International Conference on Software Maintenance and Evolution (ICSME) 2020

Student Volunteer (Virtual)

2018 - 2019

University of Adelaide

ECMS Volunteer and Ambassador Program

- Provided enrolment support for students
- Assisted with the running and set up of events, including university open days, the 2018 *Young Women in Technology Experience and Ingenuity*.
- Took part in high school outreach programs.
- Developed communication skills through sharing my experiences with prospective students and explaining complex ideas in ways high school students could understand

Languages

- English (Native)
- Japanese (Basic Level)

Referees

Raula Gaikovina Kula

Nara Institute of Science and Technology, Japan

Email: raula-k@is.naist.jp

Christoph Treude, (PhD Co-supervisor)

Singapore Management University, Singapore

Email: ctreude@smu.edu.sg

Markus Wagner, (PhD Supervisor)

Monash University, Australia

Email: Markus.Wagner@monash.edu