

# Fangyi Zhou (周方易)

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<https://github.com/fangyi-zhou>

Pronouns: **they/them**

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## EDUCATION

**PhD in Computing** Imperial College London Sep 2019 — present

Supervisor: Professor Nobuko Yoshida

Research Topic: Multiparty Session Types, Refinement Types, Type Systems, Concurrent Processes

**MEng in Computing** Imperial College London (1st Class Honours, Overall 86.89%) Oct 2015 — Jun 2019

Dean's List for Year 1, 2, 3 and 4

Awards: Adrian Israel Memorial Prize, Corporate Partnership Programme Prize, G-Research Ltd Prize, Corporate Partnership Programme Award, Governors' Prize (for **best overall performance**)

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## EXPERIENCE

**Graduate Teaching Assistant** Imperial College London Oct 2019 — present

Worked as a teaching assistant for the *Concurrent Processes* course (4th Year Undergraduate/Master level course) in the Department of Computing.

**Software Engineering Intern (Industrial Placement)** Facebook UK Apr 2018 — Sep 2018

Worked in Hack Language Team on the type checker, and in Sapienz Team on improving categorisation of crashes of mobile applications.

**Undergraduate Teaching Assistant** Imperial College London Oct 2017 — Mar 2018

Worked in Department of Computing to provide tutorial support for 1st year undergraduate students.

**Research Intern** Arm Jul 2017 — Sep 2017

Worked in Security Research Group on specification and verification of hypervisor software for embedded systems.

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## PUBLICATION

- YOSHIDA, N., ZHOU, F., AND FERREIRA, F. Communicating Finite State Machines and an Extensible Toolchain for Multiparty Session Types. In *Fundamentals of Computation Theory* (Cham, 2021), E. Bampis and A. Pagourtzis, Eds., Springer International Publishing, pp. 18–35
- MIU, A., FERREIRA, F., YOSHIDA, N., AND ZHOU, F.. Communication-Safe Web Programming in TypeScript with Routed Multiparty Session Types. In *Proceedings of the 30th ACM SIGPLAN International Conference on Compiler Construction* (New York, NY, USA, 2021), CC 2021, Association for Computing Machinery, p. 94–106
- ZHOU, F., FERREIRA, F., HU, R., NEYKOVA, R., AND YOSHIDA, N. Statically Verified Refinements for Multiparty Protocols. *Proc. ACM Program. Lang.* 4, OOPSLA (Nov. 2020)
- MIU, A., FERREIRA, F., YOSHIDA, N., AND ZHOU, F.. Generating Interactive WebSocket Applications in TypeScript. In *Proceedings of the 12th International Workshop on Programming Language Approaches to Concurrency- and Communication-cEntric Software* (2020), vol. 314 of *Electronic Proceedings in Theoretical Computer Science*, pp. 12–22

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## SKILL

**Programming** OCaml, Python, Rust, Golang, TypeScript, ...

**Languages** Chinese (Mandarin), English, German, Japanese

Last Updated: May, 2022