Fangyi Zhou （周方易）

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EDUCATION

PhD in Computing Imperial College London Sep 2019 — present
Supervisor: Professor Nobuko Yoshida
Research Topics: Multiparty Session Types, Refinement Types, Type Systems, Concurrent Processes
Expected Thesis Submission: 2023

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**)

EXPERIENCE

Graduate Teaching Assistant Imperial College London Oct 2019 — present
Worked in the Department of Computing on the *Concurrent Processes* course (4^{th} year undergrad./master level).

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 group tutorial support for 1^{st} year undergraduate students.

Research Intern Arm Jul 2017 — Sep 2017
Worked in Security Research Group on specification and verification of data structures used in hypervisor software for embedded systems.

PUBLICATION

- BARWELL, A. D., SCALAS, A., YOSHIDA, N., AND ZHOU, F.. Generalised Multiparty Session Types with Crash-Stop Failures. In *33rd International Conference on Concurrency Theory (CONCUR 2022)* (Dagstuhl, Germany, 2022), B. Klin, S. Lasota, and A. Muscholl, Eds., vol. 243 of *Leibniz International Proceedings in Informatics (LIPIcs)*, Schloss Dagstuhl – Leibniz-Zentrum für Informatik, pp. 35:1–35:25
- 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, pp. 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

SKILL

Programming OCaml, Python, Rust, Golang, TypeScript, ...
Languages Chinese (Mandarin), English, German, Japanese

Last Updated: September, 2022