

PERSONAL DETAILS

Address School of Computing
National University of Singapore
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EDUCATION

Research Fellow Computer Science 2024-present
National University of Singapore
I am working with Professor Manuel Rigger

Ph.D. Computer Science 2020-2024
The University of Hong Kong
Supervisors: Professor Bruno C. d. S. Oliveira
Research area: Programming languages, Type systems, Functional Programming, Gradual Typing

RESEARCH EXPERIENCES

Research Assistant The University of Hong Kong
Supervisor: Dr. Bruno C. d. S. Oliveira
2019.12-2020.06

Research Internship Tsinghua University NetMan Lab
Supervisor: Dr. Dan Pei
2019.05-2019.08

Research Internship Institute of Automation, Chinese Academy of Sciences
Supervisor: Dr. Jiajun Zhang
2019.02-2019.05

TEACHING

Teaching Assistant The University of Hong Kong
COMP3258 Functional programming
2020-2021

Teaching Assistant The University of Hong Kong
COMP2121 Discrete mathematics
2020-2021

Teaching Assistant The University of Hong Kong
COMP2119 Introduction to data structures and algorithms
2021-2022

Teaching Assistant The University of Hong Kong
COMP2119 Introduction to data structures and algorithms
2022-2023

PUBLICATIONS

- **Wenjia Ye**, Matías Toro, Claudio Gutierrez, Bruno C. d. S. Oliveira, and Éric Tanter. **Elucidating Type Conversions in SQL Engines**. *34th International Joint Conferences On Theory and Practice of Software (European Symposium on Programming) (ESOP2025, CCF-B, Core Ranking A)*
- Daan Leijen and **Wenjia Ye**. **Principal Type Inference under a Prefix**. In *Microsoft: MSR-TR-2024-34*
- **Wenjia Ye**, Yaozhu Sun, and Bruno C. d. S. Oliveira. **Imperative Compositional Programming**. *Object-Oriented Programming, Systems, Languages and Applications (OOPSLA 2024, CCF-A, Core Ranking A)*
- **Wenjia Ye**, Bruno C. d. S. Oliveira, and Matías Toro. **Merging Gradual Typing**. *Object-Oriented Programming, Systems, Languages and Applications (OOPSLA 2024, CCF-A, Core Ranking A)*
- **Wenjia Ye** and Bruno C. d. S. Oliveira. **Type-Directed Operational Semantics for Gradual Typing**. In *Journal of Functional Programming (JFP2024, CCF-B, Core Ranking A)*
- **Wenjia Ye**, Matías Toro, and Federico Olmedo. **A Gradual Probabilistic Lambda Calculus**. *Object-Oriented Programming, Systems, Languages and Applications (OOPSLA 2023, CCF-A, Core Ranking A)*
- **Wenjia Ye** and Bruno C. d. S. Oliveira. **Pragmatic Gradual Polymorphism with References**. *32nd International Joint Conferences On Theory and Practice of Software (European Symposium on Programming) (ESOP2023, CCF-B, Core Ranking A)*
- **Wenjia Ye**, Bruno C. d. S. Oliveira, and Xuejing Huang. **Type-Directed Operational Semantics for Gradual Typing**. In *European Conference on Object-Oriented Programming (ECOOP2021, CCF-B, Core Ranking A)*
- Yong Xie, Xinpu Su, Yifan He, Xuhui Chen, Gengliang Cai, Baisheng Xu, and **Wenjia Ye**. **STM32-based vehicle data acquisition system for Internet-of-Vehicles**. *2017 IEEE/ACIS 16th International Conference on Computer and Information Science (ICIS)*, pages 895–898, 2017

ACADEMIC SERVICES

- Reviewer/(Sub)reviewer.ECOOP2022, ECOOP2025
- AEC Member.ESOP2024,ECOOP2022
- Student Volunteer.ESOP2023, OPLSS2023
- Funded Attendee: OPLSS2023, OOPSLA2023

HONORS & AWARDS

ACM:

- CCPC/ICPC University Programming Design Competition at Hangzhou (Bronze prize in Nov. 2016)
- CCPC/ICPC University Programming Design Competition at Qinhuangdao (Excellent prize in Jun. 2017)

- CCPC/ICPC Fujian Province University Programming Design Competition (three Silver Prizes in 2016, 2017, 2018)
- National software and IT competition for the professional-individual (the third prize in Apr. 2017)

Language:

- National English Contest for College Students (The second prize in 2017 and 2018)

Software Development:

- 2017 National software and IT competition for the professional-entrepreneurial team competition (The second prize in the subway transportation project; excellent prize in Power app project)
- 2016 the third China's next-generation internet technological innovation competition (the third prize)
- 2016 the first China's Innovation and entrepreneurship achievements fair (the best creative award)
- 2017 the second China's intelligent interconnection innovation competition—Southern China division (winning prize)

Internet security:

- 2017 Fujian Province Cyberspace security competition (the third prize in 2016 and 2017)

Scholarship & Honors:

- National Scholarship (2018)
- National Encouragement Scholarship (Academic year of 2015-2016 and 2016-2017)
- ABB Scholarship (Academic year of 2016-2017)
- Wang Shujing & Wang Wendou Scholarship (2016 and 2017)
- **National Excellent Representative of National Scholarship Awarders (0.2%) (2019)**
- Excellent Undergraduate Student (2019)
- Volunteer Translator @2017 BRICS Summit : Excellent Volunteer

SKILLS

Qualification Certificates

IBM Software Engineer; Software Testing Engineer; C Language-Intermediate