HUANG Xuejing

CONTACT INFORMATION

The University of Hong Kong
Pokfulam, Hong Kong

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RESEARCH BACKGROUND

- **Type Systems**
- **Theorem Proving in Coq**

EDUCATION

The University of Hong Kong 2017–2022 (expected)

- Ph.D. in Department of Computer Science
- Advisor: Dr. Bruno C. d. S. Oliveira
- Thesis: *Taming the Merge Operator and Intersection Types*
- External Examiners: Prof. Frank Pfenning and Prof. Ondřej Lhoták

Zhejiang University @ China 2013–2017

- B.Sc., Computer Science and Technology
- Pursuit Science Class, Chu Kochen Honors College

Stockholm University @ Sweden 2015-2016

- Department of Computer and Systems Sciences
- Exchange Student

TEACHING EXPERIENCE

- **Functional Programming** @ HKU Fall 2018
  Teaching Assistant (one of the two)
  - Instructor: Bruno C. d. S. Oliveira
  - Class Size: ≈100

- **Principles of Programming Languages** @ HKU Spring 2018
  Teaching Assistant (one of the two)
  - Instructor: Bruno C. d. S. Oliveira
  - Class Size: ≈40

- **Parallel Algorithms** @ ZJU Spring 2015 & Spring 2016
  Teaching Assistant
  - Instructor: Yijie Han (from the University of Missouri–Kansas City)
  - Class Size: ≈30

- **Introduction to Computing System** @ ZJU Summer 2016
  Teaching Assistant (one of the eight)
  - Instructor: Yale N. Patt (from the University of Texas at Austin)
  - Class Size: ≈200

PUBLICATIONS

1. Nick Rioux, **Xuejing Huang**, Bruno C. d. S. Oliveira, and Steve Zdancewic. A Bowtie for a Beast: Overloading, Eta Expansion, and Extensible Data Types in F⋈. *In 50th Symposium on Principles of Programming Languages (POPL)*, 2023.

2. Han Xu, **Xuejing Huang**, and Bruno C. d. S. Oliveira. Making a Type Difference: Subtraction on Intersection Types as Generalized Record Operations. *In 50th Symposium on Principles of Programming Languages (POPL)*, 2023.

3. Andong Fan*, **Xuejing Huang***, Han Xu, Yaozhu Sun, and Bruno C. d. S. Oliveira. Direct Foundations for Compositional Programming. *36th European Conference on Object-Oriented Programming (ECOOP)*, 2022. (Co-first authors)

4. Baber Rehman, **Xuejing Huang**, Ningning Xie, and Bruno C. d. S. Oliveira. Union Types with Disjoint Switches. *36th European Conference on Object-Oriented Programming (ECOOP)*, 2022.

5. Wenjia Ye, Bruno C. d. S. Oliveira, and **Xuejing Huang**. Type-directed Operational Semantics for Gradual Typing. *35th European Conference on Object-Oriented Programming (ECOOP)*, 2021.

6. **Xuejing Huang**, Jinxu Zhao and Bruno C. d. S. Oliveira. Taming the Merge Operator. *Journal of Functional Programming (JFP)*, 2021.

7. **Xuejing Huang** and Bruno C. d. S. Oliveira. Distributing Intersection and Union Types with Splits and Duality (Functional Pearl). *International Conference on Functional Programming (ICFP)*, 2021.

8. **Xuejing Huang** and Bruno C. d. S. Oliveira. A Type-Directed Operational Semantics for a Calculus with a Merge Operator. *34th European Conference on Object-Oriented Programming (ECOOP)*, 2020.

AWARDS AND SCHOLARSHIPS

- ***Hong Kong PhD Fellowship***　　　　　　　　　　2017-2021
  by Research Grants Council, University Grants Committee

- ***CSC Scholarship for Exchange Students***　　　2015-2016
  by China Scholarship Council

- ***First-Class Scholarship for Elite Students in Basic Sciences***　　　　　　　　　　　　　　　　　　2013-2014
  by Undergraduate School of Zhejiang University

- ***First Prize***　　　　　　　　　　　　　　　　　2012
  in the National Olympiad in Informatics in Provinces (NOIP)

- ***Bronze Award***　　　　　　　　　　　　　　　　2012
  in Asia-Pacific Informatics Olympiad (APIO)