

## CONTACT INFORMATION

The University of Hong Kong  
Pokfulam, Hong Kong

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## RESEARCH BACKGROUND

- **Type systems: intersection types, union types, subtyping**
- **Theorem proving in Coq**

## EDUCATION

**The University of Hong Kong**

Sept 2017–Jan 2023

- 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:  $\approx 100$
- **Principles of Programming Languages @ HKU** Spring 2018  
**Teaching Assistant** (one of the two)
  - Instructor: [Bruno C. d. S. Oliveira](#)
  - Class Size:  $\approx 40$
- **Parallel Algorithms @ ZJU** Spring 2015 & Spring 2016  
**Teaching Assistant**
  - Instructor: Yijie Han (from the University of Missouri–Kansas City)
  - Class Size:  $\approx 30$
- **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:  $\approx 200$

## 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 \$\times\$](#) . 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)