RESEARCH
BACKGROUND

- **Type systems**, subtyping algorithms, combine FP & OOP
- Formalizing languages and proving theorems in **Coq**
- Implementing algorithms in **Haskell**

EDUCATION

The University of Hong Kong   *Sept 2017 - Jul 2023*

- Ph.D., Programming Languages
- Advisor: Dr. Bruno C. d. S. Oliveira
- Thesis: *Taming the Merge Operator and Intersection Types*
- External Examiners: Prof. Frank Pfenning, Prof. Ondřej Lhoták

Zhejiang University, Hangzhou, China   *2013 - 2017*

- B.Sc., Computer Science and Technology

Stockholm University, Sweden   *2015 - 2016*

- Department of Computer and Systems Sciences
- Exchange Student

TEACHING
EXPERIENCE

Functional Programming @ HKU   *Fall 2018*

- **Teaching Assistant** (1 of the 2)
- Instructor: Dr. Bruno C. d. S. Oliveira
- Class Size ≈ 100

Principles of Programming Languages @ HKU   *Spring 2018*

- **Teaching Assistant** (1 of the 2)
- Instructor: Dr. Bruno C. d. S. Oliveira
- Class Size ≈ 40

Introduction to Computing System @ ZJU   *Summer 2016*

- **Teaching Assistant** (1 of the 8)
- Instructor: Prof. Yale N. Patt (from University of Texas at Austin)
- Class Size ≈ 200

Parallel Algorithms @ ZJU   *Spring 2015 & Spring 2016*

- **Teaching Assistant** (one and only)
- Instructor: Dr. Yijie Han (from University of Missouri–Kansas City)
- Class Size ≈ 30

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 the Research Grants Council (RGC) of Hong Kong

- ***First-Class Scholarship for Elite Students in Basic Sciences***　　　　　　　　　2013-2014
  by the 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)