

# Yaozhu Sun

孫耀珠

Email: yzsun@cs.hku.hk

Phone: (+852) 56624285

## EDUCATION

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- **University of Hong Kong** Hong Kong, China  
PhD in Computer Science *Early 2024 (Expected)*
- **Zhejiang University** Hangzhou, China  
BEng (Hons) in Computer Science and Technology *June 2019*  
*Affiliation:* Qiushi Science Class, Chu Kochen Honors College

## ACADEMIC EXPERIENCE

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- **University of Hong Kong** Hong Kong, China  
PhD Student / Research Assistant *September 2019 – Present*  
*Advisor:* Prof. Bruno Oliveira (Programming Languages Group)
  - Doing research on compositional programming based on disjoint intersection types, disjoint polymorphism, and nested composition.
- **Tokyo Institute of Technology** Tokyo, Japan  
Exchange Student *April 2017 – February 2018*  
*Advisor:* Prof. Hidehiko Masuhara (Programming Research Group)
  - Conducted research on object-oriented high performance computing and contributed to two relevant projects, namely Ikra-Ruby and Ikra-Cpp. The former is a Ruby Gem for array-based GPU computing and the latter is a C++/CUDA EDSL for OOP with the structure-of-arrays memory layout.

## INDUSTRY EXPERIENCE

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- **Microsoft Research Asia** Beijing, China  
Research Intern, Machine Learning Group *April 2019 – July 2019*
  - Worked on a distributed dataflow computation engine in the team of ML Systems.
- **Huawei 2012 Labs** Hangzhou, China  
Software Engineering Intern, Compilers and Programming Languages Lab *July 2018 – August 2018*
  - Contributed to the Clang-based compiler frontend for Huawei's AI chips and the programming language infrastructure of Huawei's deep learning framework.

## EXTRACURRICULAR ACTIVITIES

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- **Apple Club, Zhejiang University** *2018 – 2019*  
Founder
  - Founded the club with the support of Apple Inc. and ZJU CCST, aiming to spread Apple's software technology and design principles on our campus, especially about iOS app development.
  - Recruited the initial members (around 30 students), built the club homepage as well as WeChat Mini Program, organized the internal training program, and held public lectures on campus.
- **Supercomputing Team, Zhejiang University** *2015, 2018*  
Member
  - Participated on behalf of Zhejiang University in supercomputing competitions, where we built a cluster with GPUs on site and optimized scientific computing applications on that cluster.

- **Qiushichao Mobile, Zhejiang University**

Tech Lead

2015 – 2017

- Led the iOS team in the development of the new version of Qiushichao Mobile and contributed most of the code. The new version embraced a totally different design and was rewritten in Swift. It is available on the App Store and has been the most popular campus app at Zhejiang University with 9,000+ weekly active users.

## PUBLICATIONS

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- Matthias Springer, [Yaozhu Sun](#), and Hidehiko Masuhara. **Inner Array Inlining for Structure of Arrays Layout**. In *Proceedings of the 5th ACM SIGPLAN International Workshop on Libraries, Languages, and Compilers for Array Programming (ARRAY@PLDI)*. Philadelphia, USA, 19 June 2018.

## AWARDS

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- **ASC Student Supercomputer Challenge** Asia Supercomputer Community and Inspur Group  
First Prize (as a team member) *May 2018*
- **Mobile Application Innovation Contest, China Collegiate Computing Contest** MOE, Tsinghua U. and Apple Inc.  
Second Prize (as the team leader) *September 2016*
- **Parallel Application Challenge** CCF TCHPC and Intel Corporation  
Bronze Award in Optimization Track (as a team member) *November 2015*
- **National Olympiad in Informatics in Provinces** China Computer Federation (CCF)  
First Prize in Jiangsu Province (individual) *December 2012*

## TEACHING

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- **Programming Principle (21190650)** Zhejiang University  
Teaching Assistant *Autumn 2018*