HAOQIAN ZHANG

Curriculum Vitae

Swiss Federal Institute of Technology Lausanne
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Educational Background

2019-Now **Swiss Federal Institute of Technology Lausanne**, Switzerland

Program: Doctoral in Computer and Communication Sciences, School of Computer and Communication Sciences

GPA: 5.75/6.0

Supervisor: Professor Bryan Ford

2017-2019 **Hong Kong University of Science and Technology**, Hong Kong

Program: Master of Philosophy in Computer Science and Engineering, School of Engineering

GPA: 3.83/4.3

Supervisor: Professor Ke Yi

2013-2017 **Peking University**, Beijing, China

Program: Bachelor of Computer Science, School of EECS

Major GPA: 3.50/4.0

Overall GPA: 3.44/4.0

2016 **National Taiwan University**, Taipei, Taiwan

Exchange College: Electrical Engineering and Computer Science

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Publications

Haoqian Zhang, Mahsa Bastankhah, Louis-Henri Merino, Vero Estrada-GaliÃśanes, and Bryan Ford, *Breaking Blockchain Rationality with Out-of-Band Collusion* , WTSC2023

Haoqian Zhang, Louis-Henri Merino, Mahsa Bastankhah, Vero Estrada-GaliÃśanes, and Bryan Ford, *F3B: A Low-Latency Commit-and-Reveal Architecture to Mitigate Blockchain Front-Running*, Under submission, https://arxiv.org/abs/2205.08529

Haoqian Zhang, Louis-Henri Merino, Vero Estrada-GaliÃśanes, and Bryan Ford, *Flash Freezing Flash Boys: Countering Blockchain Front-Running*, DINPS2022

Haoqian Zhang, Cristina Basescu, Bryan Ford, *Economic Principles of PoPCoin, a Democratic Time-based Cryptocurrency*, arXiv preprint, https://arxiv.org/abs/2011.01712

Haoqian Zhang, Yaocheng Zhao, Abhishek Paryani, Ke Yi, *Infnote: A Decentralized Information Sharing Platform Based on Blockchain*, Master Thesis 2019, https://arxiv.org/abs/2002.04533

Experience

2009–2014 **Tyvj**, *Founder*, an Online Judge Platform for algorithm problems and competitions.

Introduction: In 2012, it had become one of the largest online judge systems for algorithm competition in China, having more than 40,000 users, 300,000 page views per day and more than 2000 algorithm challenges.

2017	**University of Oxford**, *Oxford Martin School, Institute of New Economic Thinking*, Internship.

Topic: Developed state of the art Economic Simulation for Bank of England and European Central Bank

Supervisor: Professor J. Doyne Farmer

2016–2017	**Peking University**, *School of EECS, Department of Computer Science, Microprocessor Research and Development Center*, Research Assistant.

Topic: Code Similarity Analysis Based on Control Flow Graph

Supervisor: Professor Xianhua Liu

2014–2016	**Peking University**, *School of EECS, Department of Computer Science, Artificial Intelligence Lab*, Research Assistant.

Topic: Gerneral Game Play, AI Battle Platform (Botzone.com) and Game Design

Supervisor: Professor Wenxin Li

2014	**Nation Olympiad in Informatics 2014**, *Shenzhen, China*, Technical Staff.

Project: Developing judge system and designing problems for the AI competition.

Teaching

2021-2023	**Decentralized Systems Engineering**, Fall 2021-2022, Fall 2022-2023, Swiss Federal Institute of Technology Lausanne, Teaching Assistant.
2017-2019	**ACM/ICPC Programming Team**, Hong Kong University of Science and Technology, Coach.
2018	**Honors Competitive Programming**, Spring 2017-2018, Hong Kong University of Science and Technology, Teaching Assistant.
2017	**Compiler Lab (Honor Track)**, Spring 2016-2017, Peking University, Teaching Assistant.

Awards

2019	PhD fellowships, EPFL
2019	Best Project Award, BETH: Blockchain School for Sustainability, ETH Zurich
2018	Best Paper Award, CONVR2018
2017,2018	Postgraduate Scholarship, HKUST
2014	Tung OOCL Scholarship of Peking University
2012	China Team Selection Competition for International Olympiad in Informatics, Bronze Medal
2012	Asia-Pacific Informatics Olympiad (China Region), Silver Medal
2011	Asia-Pacific Informatics Olympiad (China Region), Bronze Medal
2012	National Olympiad in Informatics, Silver Medal
2011	National Olympiad in Informatics, Bronze Medal
2012	National Olympiad in Informatics, ShanXi Province, Fourth Place

Languages

Chinese: Native

English: Fluent

French: Basic

Programming Languages: Proficient