

Alex Ling

PHD CANDIDATE IN COMPUTER SCIENCE

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Summary

I am a Ph.D. student in Computer Science at City University of Hong Kong, under the supervision of Dr. Chee Wei Tan. My research interests include convex optimization and distributed algorithms, as well as their applications in graph analytics, machine learning and large-scale education.

Education

City University of Hong Kong

PH.D. IN COMPUTER SCIENCE

Hong Kong

Sept. 2017 - PRESENT

City University of Hong Kong

B.SC. IN APPLIED PHYSICS

Hong Kong

Sept. 2013 - July, 2017

- Majored in Applied Physics and minored in Computer Science
- Graduated with Upper Second Honor
- On the Dean's List for 4 times
- My final year research report was awarded as Outstanding Academic Papers by Students (OAPS)

Work Experience

AlgebraGamification Project, City University of Hong Kong

PART-TIME STUDENT HELPER

Hong Kong

Nov. 2016 - Aug. 2017

- Maintained and updated several Unity game projects
- Developed Messenger bots and web admin panels
- Developed internal tools
- Set up and maintained production Linux servers and databases

SillyCube Ltd.

SOFTWARE ENGINEER INTERN

Hong Kong

Summer 2016

- Maintained internal iOS/Node.js projects
- Developed an iOS app for the company to demo to customers
- Maintained internal development server (Ubuntu)

Honors & Awards

ACADEMIA

Mar. 2018 **Outstanding Academic Papers by Students**, City University of Hong Kong

Hong Kong

2013 - 2017 **Dean's List** ×4, City University of Hong Kong

Hong Kong

Sept. 2013 **Half Tuition Fee Scholarship**, City University of Hong Kong

Hong Kong

SOFTWARE DEVELOPMENT

Jun. 2016 **Grand Prize**, AngelHack

Shen Zhen, China

Apr. 2016 **Think Out of The Box Award**, HackUST

Hong Kong

Publication

CONFERENCE PAPERS

ISIT 2019

Paris, France

SCALABLE AUTOMATED PROVING OF INFORMATION THEORETIC INEQUALITIES WITH PROXIMAL ALGORITHMS

July 2019

ICDMW 2018

Singapore

HUMAN-ASSISTED COMPUTATION FOR AUTO-GRADING

Nov. 2018

Talks & Seminars

Proving Inequalities in Information Theory: Theory, Computational Challenges and Scalable Solutions

Hong Kong, Hong Kong

SEMINAR AT CCCN (CENTRE FOR CHAOS AND COMPLEX NETWORKS), CITYU HK

Oct. 2018

Educational Mobile App for the JRMF Math Festival

Taipei, Taiwan

THE 8TH ICMI-EAST ASIA REGIONAL CONFERENCE ON MATHEMATICS EDUCATION (EARCOME 8)

May. 2018

Teaching

I worked as teaching assistant for the following courses, where my duties include giving tutorials as well as designing and grading assignments.

- **CS 3334** Data Structures
- **CS 2115** Computer Organization
- **CS 2468** Data Structure and Algorithms
- **GE 2315** Security and Privacy in the Information Age