

LI, KIN FUNG (CALVIN)

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WORK/RESEARCH EXPERIENCE

Event-Triggered Estimation and Control

Dec 2022 - Present

Research Group Member

Supervised by Prof. Ling SHI@ECE, HKUST

- Developed theoretical tools for event-triggered control and state estimation
- Research methodology: control theory, probability, signal processing, dynamic programming, etc.

Independent Study on Matrix Theory and Canonical Angles

Dec 2022 - Feb 2023

Research Assistant

Supervised by Prof. Li QIU@ECE, HKUST

- Authored the extensions to the textbook for "ELEC5600: Linear-System Theory" at HKUST
- Content: unitarily invariant norms, perturbation theory, canonical angles, Grassmann space and metrics

Flurry Finance

Jun 2021 - Feb 2022

Software Engineering Intern

- Implemented optimization of DeFi lending portfolio, up to 2x return of naive algorithm
- Programmed smart contracts and scripts for yield farming, staking, tokens, trading, price oracle

EDUCATION

The Hong Kong University of Science and Technology (HKUST)

Sep 2019 - May 2024

Dual Degree Program: BEng(COMP & ELEC) & BBA(GBM); Minors in Math and Robotics

- CGA: 3.95/4.3 (top 3%)
- Activities: Academic Secretary (DDPOC 2020-21), Student Ambassador (IPOSA 2020-21)

Eidgenössische Technische Hochschule (ETH) Zürich

Feb 2022 - Aug 2022

Semester Exchange: Computer Science

- Grade: 5.63/6.0
- Member of *The Alternative*, a student society for technology, e.g. Linux, bash, console

HIGHLIGHTED TECHNICAL SKILLS

Programming Languages

Java, Haskell, C, C++, Solidity, Python, JS, TS, MATLAB, etc.

Computer Science

OOP, FP, ML, DB, Algorithms, Formal Methods, Blockchain, Networking

Electronic Engineering

Matrix Analysis, (Event-Triggered) Control Theory, Signal Processing

Economics & Finance

Econometrics, Portfolio Theory, Derivatives, DeFi

EXTRA-CURRICULAR EXPERIENCE

Google and Open Data Strategy

Feb 2022 - Present

Team Leader, Student Consultant

- Provided consultation as a student team to HKT Digital Out-of-Home (DOOH) business unit
- Deliverables: geospatial analysis, a web-app dashboard for planning and monitoring, and consultation report

Robocon Subteam, HKUST Robotics Team

Dec 2019 - Jun 2021

Team Leader, Senior Hardware Engineer ← Junior Hardware Engineer

- Multiple champions and awards in Robocon (2021: archery, 2020: rugby)
- Managed 30+ mechanical, hardware and software engineers, performed circuit design and electronics R&D

UBS Zürich

Dec 2020 - Jan 2021

Student Analyst (Team Captain, AI Developer)

- Prototyped a ML-based fintech startup prediction tool with 70% accurate funding patterns
- Data pipelining, hypothesis testing, K-means, PCA, decision tree, regression