YING CHAN

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EDUCATION

The Chinese University of Hong Kong *September 2019 - Present*
3rd Year, B.Sc. Physics

RESEARCH EXPERIENCE

The Chinese University of Hong Kong Decaying Dark matter in ΛCDM cosmological model
Paired team member for TBTF problem led by Prof. CHU Ming Chung *May 2020 - July 2020*

· Solved the Too Big To Fail problem by making use of computer simulation to incorporate decaying properties to Dark Matter.

NMR spectrometer simulations: Message in a box
Individual member of software development led by Dr. Alvin H.T. LEUNG *May 2021-August 2021*

· Performed data correction making use of Machine Learning and numerical calculations making use of computation.

University of California, Berkeley Cabbibo translator project
Individual project of software development supervised by Prof. Yury Kolomensky *February 2022 - August 2022*

· Worked on software translator to update communication from Cabbibo to Leybold CenterThree by LabVIEW, Python and Raspberry Pi.

WORK EXPERIENCE

Flying Milk Tea Limited
AI Developer *June 2021-August 2021*

· Trained and evaluated model to perform image-steganography for authentication of product images making use of machine learning
· Developed a live stream talking-head application from python with a combination of 3 deep learning models.

EXTRACURRICULAR ACTIVITIES

1. President of Physics Society CUSU from February 2020 - January 2021
2. Physics Student Conference organising committee 2020
3. In-Dialogue-with-Alumni student interviewer
4. Note-taking service for students with hearing difficulties from September 2020 - December 2020
5. Peer Tutoring Scheme (CUHK ELTU department) from September - December 2021
6. MoCC Ambassadorship 2021/2022

OTHER EXPERIENCE

1. **Supercomputing team member 2021: Finalists**: HPL tuning, and optimization of software PRESTO.
2. **Exchange to UCB Spring and Summer 2022**: Quantum Field Theory Primer, Special and General Relativity, and Nonlinear and Quantum Optics

SCHOLARSHIPS

1. CUHK Student Exchange Financial Aid and Scholarship Scheme (FASS)

2. Undergraduate Student Exchange Scholarship Scheme (SFES)

3. Reaching Out Award (2022)

TECHNICAL SKILLS AND LANGUAGE

Computing languages Julia, Python, C, latex, API, bash
Langauges English: IELTS (overall: 7.5)