

Beta's MSc projects

2021-2022 Semester 2

Hello, world!

- ◆ Dr. YIP Chi Lap [Beta] 葉志立 PhD BEng(CompEng) FHKMetSoc MACM MIEEE
- ◆ Work on projects, supervise projects.
- ◆ My students have received every sub-grade from A+ to F.
- ◆ Please send me CV for reference.
- ◆ Home page for MSc projects and dissertations:
<https://i.cs.hku.hk/~clyip/Teaching/MScProject-2021/>

Interested areas

 Meteorological computing

 Mobile applications

 IoT applications

 Data mining

 Multimedia

 Design

 Computer music

 Audio processing

 Artificial intelligence

 Machine learning

 Perception

 Digital forensics

Some of my projects

- ◆ catfind project — online music search in the 90s.
- ◆ Tropical cyclone eye fix project — in operational trial in Hong Kong Observatory since 2004.
- ◆ Porting and maintenance of Windshear and Turbulence Warning System (WTWS) Software for Hong Kong Observatory — system in operational use in HKIA.
- ◆ Technical study of using non-hydrostatic NWP model in local-scale simulation of weather conditions at Hong Kong International Airport.
- ◆ Official GNU translator of fileutils, now coreutils, for the Traditional and Simplified Chinese languages, since 1998.
- ◆ Mobile apps:
 - * Balinese Gamelan Gong Kebyar on iOS.
 - * HKcBirds 香港常見鳥類, HKBirds 香港鳥類.

Some of my past students' projects

- ◆ "Investment Recommendation System"
 - * Au Tung Kin: GA, ANN, statistics and technical analysis for trading strategies and comparison of technical indicators.
 - * Andrea Pisoni: Online sentiment and technical analysis to predict future values and trends of various financial products and markets.
- ◆ "Examining Efficient Market Hypothesis in Stock Markets by Machine Learning Approach" by Lam King Wai.
- ◆ "Applying Data Mining Techniques to Assess Asian Investor Biases and Behaviors in Unlisted Derivative Markets" by Ferrari Oscar.
- ◆ "Flow Toxicity and the Profitability of Market Makers" by Tang Tun Yu [Tony]: market makers, liquidity takers, adverse selection.
- ◆ "Cryptocurrency Price Prediction with AI" by Lau Ka Wai [Elvis].

Some of my past students' projects

◆ "Sequential Associations"

- * Barrett James Richard: Sentiments and Equity, Rate, ForEx, Commodity indices
- * Zhao Xinlei: earthquakes and various observations.
- * Li Diana: Peer-to-Peer Online Lending Market.

◆ "Speaker recognizer"

- * Zheng Xuejing: basic diarisation algorithms.
- * Zeng Linqiang: real-time component.

- ◆ "Dubbing Movies with Actors' Original Voices" by Cheng Ning Yau, Fong Charain Cheuk Ying, Ngai Keung: isn't it good if Leonardo DiCaprio, Jennifer Lawrence, and Meryl Streep speak your language in "Don't Look Up"?