

# XIN Jiayi

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## Education

**The University of Hong Kong (HKU)** Sep 2020 - Aug 2024 (expected)

- Curriculum: Bachelor of Arts and Sciences in Applied Artificial Intelligence
- Major: Applied Artificial Intelligence
- CGPA: 4.05 / 4.30
  
- Related Courses:

Math and Statistics:

MATH1013 University Mathematics II (A)

MATH2014 Multivariable Calculus and Linear Algebra (A+)

STAT2601 Probability and Statistics I (A-)

- learned calculus, multivariable calculus, linear algebra and probability theory

AI and Computer Science:

APAI1001 Artificial Intelligence: Foundation, Philosophy and Ethics (A+)

- learned several searching algorithms, basic statistics and ethical issues about AI

COMP1117 Computer Programming (A+)

- learned Python and able to finish some small projects independently

CCST9048 Simplifying Complexity (A+)

- final project: trained a neural network to play a video game using NEAT algorithm

COMP2113 Programming Technologies (A)

- learned C++, C, Linux environment, Git

- final project: created a text-based game called Aeroplane Chess in C++

COMP3361 Natural Language Processing (enrolled)

## Honors / Awards

- Laidlaw Scholarship, the Laidlaw Foundation (2021)
- Dean's Honours List, the Faculty of Science, HKU (2021)
- Future Leaders of the Year Scholarships, HKU (2020)
- The second prize of China High School Students Biology Olympiad (2019, 2018)
- The second prize of High School Students Physics Competition at provincial level (2019)

## Working Experience / Extra-curricular Activities

- **Summer Research Intern, HoLab, Li Ka Shing Faculty of Medicine, HKU (2021)**

Supervisor: Dr Joshua W.K. Ho

Research topic: Using artificial intelligence (AI) to turn a mobile smartphone into a stethoscope

- trained RNNs to perform heart sound segmentation using TensorFlow and Keras
- tried to implement the model on mobile devices via web application
- joined weekly journal sharing and lab meetings
- presented the results at the end of the internship
- served as a student TA for HKU Biomedical Sciences Summer Academy (2021 August)

- **Summer Intern, Centaline Data Technology Limited, Hong Kong (2021)**

- maintained and updated databases using SQL
- performed data analysis on real estate sales data
- presented the results at the end of the internship

- **Presenter of HKU BASc(AppliedAI) Program Video Sharing (2021)**

- Link: <https://www.youtube.com/watch?v=UYDV2c8VZGU>

- **Biomedical Engineering Summer Camp, Shanghai Jiao Tong University (2018)**

- made a literature review on the application of nano technology in Biomedical Engineering
- got the second prize of the final poster presentation

- **Member of the competition team, HerKules-AI society, HKU**

- aiming at RoboMaster University AI Challenge (RMUA)
- plan to develop reinforcement learning programs for robots

- **Crowdsourcing Influencer, Google**

- organize events to share the knowledge about machine learning in local communities

- **Volleyball Player, Starr Hall Volleyball Team, HKU**

### **Skills and Personality**

- Computer: Python (familiar with numpy, pandas), TensorFlow (with Keras), C++, Linux environment, Git, MATLAB, R, Jupyter Notebook, AWS, Excel, Word, PowerPoint
- Language: Mandarin (native); English (fluent); IELTS (7.5 / 9.0); Cantonese (fair)
- Strong interpersonal skill and teamwork ability
- Fast learner with strong analytical and problem-solving skills