

YUEMIN YU

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Education

BEng in Computer Science *The University of Hong Kong* **Pokfulam, Hong Kong** 2021.09 - 2025.06
Department of Computer Science, Faculty of Engineering
CGPA 3.56/4.3

Exchange student *University of Toronto* **Toronto, Ontario, Canada** 2024.01 - 2024.04
Department of Computer Science, Faculty of Art&Science
CGPA 3.43/4.0

Experience

Student teaching assistant *Department of Computer Science, HKU* **Pokfulam, Hong Kong** 2022.09 - 11

- Worked as a student teaching assistant for the course ENGG1330.
- conducted tutorials on a weekly basis, responded to students' questions.

Research assistant *HKU AIoT Lab* **Pokfulam, Hong Kong** 2023.06 -

Supervisor: Professor Chenshu Wu, Department of Computer Science, HKU

- Work as a research assistant in the lab.
- Developed a real-time demo for vital sign monitoring based on acoustic sensing system.
- Participated in various research projects, with main focus on data analysis of multimodal signals and UWB radar sensing.

Research Intern *The Hu Lab, Western University* **London, ON, Canada** 2024.06 -

Supervisor: Professor Pingzhao Hu, Department of Biochemistry and Department of Computer Science, Western University

- Work as Mitacs Research intern in the lab
- Apply machine learning techniques in interdisciplinary research projects

Project/Publication

• **Statistical Acoustic Sensing For Real-Time Respiration Monitoring and Presence Detection**
— — *Sheng Lyu, Ruiming Huang, Yuemin Yu, Chenshu Wu*
Extended abstract accepted by *Mobisys'24* Demos, DOI: 10.1145/3643832.3661846.
A web application which implements novel acoustic sensing algorithm based on Streamlit library. Provides ubiquitous and non-invasive sensing on breathing and presence based on acoustic signals.

Awards

- 2021.09, HKU Foundation entrance scholarship, HKU (full tuition)
- 2021.11, Dean's Award, Faculty of Engineering, HKU
- 2022.07, HKU Undergraduate Entrance Scholarship for Outstanding Academic Talents (renewal)
- 2022.10, Member, Team INVENEER, finalist, AWS Educate Business Innovation Competition 2022, AWS HK
- 2022.12, Dean's Award, Faculty of Engineering, HKU
- 2023.08, HKU Undergraduate Entrance Scholarship for Outstanding Academic Talents (renewal)
- 2024.02, Mitacs Globalink Research Internship Award Candidate (Western University, Canada)
- 2024.03, Exchange Scholarship (jointly-funded by Reaching Out Award and HKU Worldwide Undergraduate Student Exchange Scholarships)
- 2024.07, HKU Undergraduate Entrance Scholarship for Outstanding Academic Talents (renewal)

Abilities/Courses

- **Programming languages and abilities**

Python (proficient), Java, C++, Haskell, HTML&CSS, Javascript, SQL, Basic R programming, Python data manipulation (Numpy, Pandas), Basic application of Pytorch

- **Main courses:**

Programming I (Python, A-), Programming II (Linux and C++, A), Bioinformatics (A), Computer Organization (A), Discrete Mathematics (A-), Computer Networks (A+), Intro to Deep learning for computer vision (A+), Web Programming (A+), Algorithm Design & Analysis & complexity (A-), Functional Programming, Software engineering, Introduction to data structures and algorithm, OOP and Java, Intro to Database, Intro to AI, Quantum information and computation, Fundamental calculus (A+), Linear Algebra & Probability & Statistics (A), Statistics: Idea and Concepts (A), Linear Algebra I, Multivariable Calculus

- **English**

Obtained IELTS 7.5 with 7 in speaking in 2023.03

- **Other**

Mandarin [Native], Cantonese [Basic]