

Youjing Yu

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Education

Trinity College, University of Cambridge

Oct. 2019 – Jun. 2023

ENGINEERING

First Year Grades: Unofficial due to COVID-19; 85% Overall

Second Year Grades: Unofficial due to COVID-19; 77% Overall; **Awarded Senior Scholar**

Third Year Grades: 78% Overall; **ranked 19/285 (top 6%); Awarded Senior Scholar**

Hwa Chong Institution, Singapore

Jan. 2017 - Dec. 2018

Singapore A level Physics (A), Mathematics (A), Chemistry (A), Economics (A), Modern Physics (Distinction)

Awards & Prizes

Cambridge University Trinity College Senior Scholar - July 2022;

Trinity College Examination Prize - July 2022;

Trinity College Summer Studentship - Mar 2022;

Cambridge University Trinity College Senior Scholar - July 2021;

Trinity College Examination Prize - July 2021;

Cambridge Trust Overseas Scholarship - Mar 2019;

Trinity College Overseas Bursary - Mar 2019;

Hwa Chong Diploma with Distinction - 2018;

Singapore Science and Engineering Fair Silver Award - March 2018;

Singapore Youth Festival Gold Award - May 2017;

American Mathematics Competition Distinction - 2017;

Australian Mathematics Competition High Distinction - 2017;

Singapore Junior Physics Olympiad Silver Award - Oct 2016;

UNSW English Writing Competition High Distinction - 2016;

OAAS Scholarship Award - 2016;

Singapore Youth Festival Gold Award - 2015;

Singapore Mathematical Olympiad Silver Award - 2015;

Experience

Research Intern under the Department of Engineering

University of Cambridge

Student Assistant Researcher

Oct. 2022-PRESENT

- Neural Dynamics Control Group under Dr Guillaume Hennequin.
- Implement a webcam-based eye tracker to track the user's eye movements in psychophysical experiments to better understand human thinking when solving navigational challenges.

Research Intern under the Department of Computer Science

University College London

Student Assistant Researcher

Dec. 2021-PRESENT

- Joined the Web Intelligence Research Group under Dr Aldo Lipani.
- Worked on speech and text-based user confidence and expertise detection and measurement on conversational search systems (CSS) in Natural Language Processing (NLP) using transformer-based multimodal deep neural networks. [Paper under review at EACL.](#)

Research Intern under the Department of Engineering

University of Cambridge

Team Leader

Jul. 2021-Oct 2021

- Successfully developed a web-based interface for Natural Language Processing (NLP) text corpora that runs two bias detection algorithms and enables gender biases to be revealed visually and interactively. [Paper under review at Digital Scholarship in the Humanities.](#)

MAGIC Research Group under the Department of Engineering

Research Intern

University of Cambridge

Mar.2021- Apr.2021

- Joined a research group under the Managing Air for Inner Greater Cities (MAGIC) under Dr Boies. Identified car plate numbers using OpenCV and Pytesseract with computer vision techniques.

Spacept project at Hackbridge

Team member

University of Cambridge

Oct.2020-Dec.2020

- Identified and predict building damage and forest fires from satellite images. Built an ML-Enhanced Computer Vision Change Detector System for Satellite Images Analysis. Team leader of the unsupervised learning team.

Research Group under the Department of Electrical and Electronic Engineering

Student Assistant researcher

University of Hong Kong

Jul.2020-Sep.2020

- Did a ten-week internship programme on deep-learning generated holography.
- Generated image-to-image translations using deep learning to build neural networks.

Research Group under the Department of Building

Assistant researcher

National University of Singapore

Mar.2017-Jan.2018

- Produced nano encapsulated organic chemicals for coating. Our Cadmium Orthostannate nanoparticles with 3-(mercaptopropyl)trimethoxysilane suspended in organic solution were shown to have effective thermal insulation abilities, which can save massive amounts of energy if painted on windows.

Extra-curricular Activities

Trinity College Badminton Club

President

Trinity College, University of Cambridge

Oct.2022 – PRESENT

- Overseeing Women's Team, Men's First, Second and Third Team.
- Organise coaching, league matches, cuppers matches, field bulk bookings and social events, organise stash designs and orders.

Hwa Chong Girls' Tennis Team

Member

Singapore

Jan.2017 – Dec.2018

- Represented Hwa Chong Junior College in inter-collegiate tennis matches.
- First Runner-Up** in 2017; **Second Runner-Up** in 2018.

Hwa Chong Junior College Chinese Orchestra

Member

Singapore

Jan.2017 – June.2017

- Represented Hwa Chong Junior College Chinese Orchestra.
- Gold Award** at Singapore Youth Festival.

Son-rise Singapore

Member

Singapore

Jan.2017 – Dec.2018

- Responsible for interacting and playing with an autistic child four hours a week. Taught the child basic words and maths. This experience taught me the value of empathy and the importance of always respecting and helping people living on the margins of society, which I am highly grateful for. I have also developed a positive mindset and a passion for serving.

Anderson Secondary School Choir

Member

Singapore

Jan.2015 – Dec.2016

- Represented Anderson Secondary School Choir
- Gold Award** at Singapore Youth Festival.

Personal Website: <https://youjingyu99.github.io/>

Referees

Professor Per Ola Kristensson
Department of Engineering, Cambridge

Professor Adam Boies
Department of Engineering, Cambridge