

Tianyi Hu

Master of Computer Engineering
University of California, Irvine

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github.com/hu-tianyi
www.hutianyi.tech/about

Education

- **University of California, Irvine(UCI)** Irvine, USA
Major: Master of Computer Engineering 2020 - 2022
 - **Courses:** Embedded System Software, Computer Architecture, Design&Analysis of Algorithms, Random Processes, Machine Learning, Advanced System Software, ...
 - **GPA of 2020Fall & 2021Winter:** 3.9/4.0
- **University of Edinburgh(UoE)** Edinburgh, UK
2+2 Dual Bachelor's Degree: B.Eng(Hons) Electronics and Computer Science 2018 - 2020
 - **Award:** Bachelor of Engineering with Honours (**First Class**)
- **South China University of Technology(SCUT)** Guangzhou, China
Major: Information Engineering 2016 - 2018
 - **Overall GPA and Ranking:** 3.54/4; 71/234

Research Experience

- **University of Edinburgh(UoE)** Edinburgh,UK
Honour Year Project Sept. 2019 - April. 2020
 - Topic: Towards Privacy Leakage in Deep Models
 - Focus on privacy leakage and memorization properties of machine learning models
 - Conduct research on Membership Inference Attack
 - Supervisor: Prof. Sotirios Tsafaris
- **University of California, Irvine(UCI)** Irvine,USA
Research Assistant & Hardware Developer - Embedded System Project July. 2019 - Sept. 2019
 - Topic: **Patient Initiated Controlled Analgesic Remote Dispenser**
 - Work on solution of **Opioid Overdose Crisis** in USA
 - Conduct embedded system design & debug
 - Design **PCB layout** & Assembly SMT components
 - Supervisor: Prof. Sergio Gago
- **South China University of Technology(SCUT)** Guangzhou, China
Team Leader & Software Developer - Smart Home IoT Project Mar. 2018 - Aug. 2018
 - Topic: Magic Mirror Assistant - A Smart Home System with voice recognition, face recognition & remote control
 - Related Technique: Django(Python), OpenCV, MQTT, Linux(Raspberry Pi), WebSocket, HTML, CSS, JavaScript, ESP8266(Lua)
 - Partly Open-source at: <https://github.com/hu-tianyi/Magic-Mirror-Assistant>
 - Supervisor: Lei Li(Technician), QinHui Ping(Director of Laboratory Center)

Publication & Conference

- **Computer Vision and Pattern Recognition(CVPR)** Long Beach,USA
WorkShop - CEFRL 2019¹ June, 2019
 - Title: **Scan-Flood Fill (SCAFF): an Efficient Automatic Precise Region Filling Algorithm for Complicated Regions**
 - Author: Yixuan He, **Tianyi Hu**, Delu Zeng

¹3rd International Workshop on Compact and Efficient Feature Representation and Learning in Computer Vision 2019

Scholarship, Awards, Grants & Honours

South China University of Technology Scholarship - Second Prize ¹	2018
CaiJianZhong Scholarship - Third Prize ²	2017
Undergraduate Electronic Design Contest, Guangdong Province - Second Prize	2018
Mathematics Competition of South China University of Technology - Second Prize	2017
Undergraduate Electronic Design Contest, Guangzhou - First Prize	2018
Merit Student of South China University of Technology	2017
Excellent Student Leader of South China University of Technology	2017

Technical Skills/Interests

- **Scientific:** Python, MATLAB, L^AT_EX, Markdown, Jupyter Notebook, agda
- **Web App:** Jeklly, Django, HTML, CSS, JavaScript, PostgreSQL
- **Hardware:** C, C++, microPython, Verilog, Lua, Raspberry Pi, Arduino, ESP8266, ESP32

Additional Experience

- **Member of Clarinet Choir** Edinburgh, UK
Edinburgh University Clarinet Choir *Sept. 2018 - July. 2019*
 - Participate in rehearsal training as a B \flat Clarinet player
- **Head of Class (Elected)** Guangzhou, China
School of Electronics and Information Engineering, SCUT *Sept. 2017 - July. 2018*
 - Assist college counsellor, organize class activities and convey notifications
 - Conduct class meetings
- **Class Representative in charge of Studies (Elected)** Guangzhou, China
School of Electronics and Information Engineering, SCUT *Sept. 2016 - Sept. 2017*
 - Assist lecturers, collect & hand out assignments and help classmates with their studies
- **Member of Software Department** Guangzhou, China
Radio Fans Association³, SCUT *Sept. 2017 - July. 2018*
 - Participate in and Share skills about programming in weekly workshop
- **Member of Information Department (Web Team)** Guangzhou, China
Radio Fans Association³, SCUT *Sept. 2016 - Sept. 2017*
 - Learn extracurricular programming knowledge and skills
 - 2016's Outstanding Member in Radio Fans Association
- **Member of Debate Team** Guangzhou, China
School of Electronics and Information Engineering, SCUT *Sept 2016 - July. 2018*
 - Participate in academy-level debate competitions
- **President of Model United Nation Association** Guangzhou, China
Guangzhou High School *June 2014 - June. 2015*
 - Host the 1st Model United Nations Conference at Guangzhou High School

¹Top20% in Comprehensive evaluation of student's performance and Top25% in study

²Top10% in Comprehensive evaluation of student's performance and Top15% in study

³Radio Fans Association is one of the largest technical associations at South China University of Technology