Tianyi Hu

Master of Computer Engineering
University of California, Irvine

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github.com/hu-tianyi
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Education

- **University of California, Irvine(UCI)** — Irvine, USA
  *Major: **Master of Computer Engineering*** — *2020 - 2022*
  - **Courses Taken:** Computer Architecture, Design&Analysis of Algorithms, Introduction to Artificial Intelligence.
  - **GPA of 2020Fall:** 4.0/4.0
- **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 Tsaftaris
- **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 2019[1] — *June, 2019*
  - Title: Scan-Flood Fill (SCAFF): an Efficient Automatic Precise Region Filling Algorithm for Complicated Regions
  - Author: Yixuan He, **Tianyi Hu**, Delu Zeng

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[1] 3rd 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, LaTeX, Markdown, Jupyter Notebook, Caffe, 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♭ 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 Association[3], 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 Association[3], 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

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[1] Top20% in Comprehensive evaluation of student's performance and Top25% in study
[2] Top10% in Comprehensive evaluation of student's performance and Top15% in study
[3] Radio Fans Association is one of the largest technical associations at South China University of Technology