🛘 (+1)949-466-1670 | 💌 yjau@ucsd.edu | 🏕 eric-yyjau.github.io | 🖸 github.com/eric-yyjau | 🗖 linkedin.com/in/you-yi-jau-b995a4140

## **Education**

#### University of California San Diego (UCSD) - Jacobs School of Engineering

La Jolla, USA Exp. Jun. 2020

M.S. IN ELECTRICAL AND COMPUTER ENGINEERING

• Major: Signal and Image Processing (SIP)

National Taiwan University (NTU)

B.S. IN ELECTRICAL ENGINEERING

Taipei, Taiwan

Sep. 2013 - Jan. 2018

Average GPA: 4.14/4.3 (25 out of 259 students)

· Courses taken: Machine Learning, Digital Speech Processing, Digital Visual Effects, Algorithms, Strategy Consulting

## Skills .

**Programming** 

C++, Python – scikit-learn/ Keras/ Tensorflow, Matlab, Robot Operating System (ROS), JavaScript (back-end), Arduino

English - TOEFL: 103/120 | GRE: V(152), Q(170), AWA(3.0)

## Internships .

Language

## Research Intern, AI Center at Inventec Corp.

Taipei, Taiwan

PROJECT: INDOOR NAVIGATION

Jul. 2018 - Sep. 2018

- · Developed robotic control system under ROS framework, successfully achieving cloud training and evaluation
- Trained and tested models using CNN deep reinforcement learning in Tensorflow, reaching success under virtual environment

### **Software Development Intern, Dell Technology**

Taipei, Taiwan

PROJECT: TOOL DEVELOPMENT

Jul. 2016 - Aug. 2016

- Designed the architecture of software tools, to speed up debugging process for server development
- $\bullet \ \ \text{Created debugging tools from back-end algorithm to front-end interface in python, in use for over 1\,year}$

## Research & Projects \_

## Researcher, Media IC & System Lab (Po-Chen Wu, Prof. Shao-Yi Chien)

Taipei, Taiwan

PROJECT: POSE TRACKING FROM A PLANAR TARGET

- Nov. 2017 Jan. 2018
- Designed "Particle Filter" to solve the problem of pose ambiguity, better tracking planar target in augment reality (AR)
  Experimented algorithm on Object Pose Tracking (OPT) Dataset, benchmarking with state-of-the-art "Kalman Filter" method

#### Project, Machine Learning (Prof. Hung-yi Lee)

Taipei, Taiwan

PROJECT: STACK EXCHANGE TAGS COMPETITION ON KAGGLE

Nov. 2016 - Jan. 2017

- Devised automatic tag prediction from given titles and answers, learning connections between articles
- · Constructed unsupervised learning model (TF-IDF) and Part-Of-Speech method in Python, achieving top 25% in 380 participants

# Researcher, Media IC & System Lab (Prof. Shao-Yi Chien)

Taipei, Taiwan

PROJECT: ODOMETRY FOR IMPRECISE AUGMENTED REALITY (AR)

Feb. 2016 - Jun. 2017

- Developed multimedia method based on "ORB-SLAM", aiming to reduce power consumption for AR devices
- Experimented on SLAM with low-resolution image frames, achieving same RMSE loss on trajectory with 10% of original size
- Remodeled gyro's data into ORB-SLAM as initial transformation matrix for localization, visualizing and interpreting the results

## Leadership.

# President of Aboriginal Service Club, NTU (Prof. Chien-Mo Li)

Taipei, Taiwan

LEADER OF PUBLIC RELATIONS/ VICE PRESIDENT/ PRESIDENT

Sep. 2014 - Jul. 2017

- Arranged winter/summer camps in aboriginal villages in remote mountains of Taiwan, exposing primary school students to science
- · Organized volunteer training with 60 teammates as club president for 6 months, operating 14 day services
- $\bullet \ \ \text{Initiated effective communication and creative thinking between teammates, shaping positive environment in the club and the communication and creative thinking between teammates, shaping positive environment in the club and the club are the communication and creative thinking between teammates, shaping positive environment in the club are the c$

# **Professional Activities**

2017	MakeNTU Enterprise Awards: FET & GaTec/ Best Popularity Award, NTUEE Hackathon	Taipei, Taiwan
2016	MakeNTU Best Popularity Award (out of 40 teams), NTUEE Hackathon	Taipei, Taiwan
2016	Semi-Final round Qualification, NTU Creativity & Entrepreneur Contest	Taipei, Taiwan
2015	<b>5th place (out of 150 competitors)</b> , NTU Data Structure and Programming contest, Cadence	Taipei, Taiwan

## **Honors & Awards**

2017	Certificate of Altruistic Award, NTU	Taipei, Taiwan
2016	Scholarship (NT\$150,000), Lin, Hsiung-Chen Foundation	Taipei, Taiwan
2014	Certification of Presidential Award, NTU (top 5% of all NTUEE students)	Taipei, Taiwan