

## Education

2014–2018 **B.Sc. at National Tsing-Hua University**, *Computer Science*, Hsinchu, Taiwan.  
GPA: 3.61/4.30 (Overall), 3.72/4.30 (Major)  
Ranking: 48/164 (~ top 30%)  
Advisor: Shan-Hung Wu, Chun-Yi Lee, and Hwann-Tzong Chen

## Experience

2017–Present **Academia Sinica**, *Research Assistant*, Taipei, Taiwan.  
Advisor: Wei-Yun Ma  
- Long document comprehension and knowledge graph extraction.  
- Automatic QA and textual entailment.

2017–2018 **NTHU ElsaLab**, *Research Assistant*, Hsinchu, Taiwan.  
Advisor: Chun-Yi Lee  
- Real-time video segmentation.  
- Navigation in 360 street view.

2017–2018 **Umbo Computer Vision Inc.**, *Research Collaboration*, Taipei, Taiwan.  
Advisor: Hwann-Tzong Chen  
- Human pose estimation, video summarization, and image motion deblurring.

Summer 2017 **Academia Sinica**, *Research Intern*, Taipei, Taiwan.  
Advisor: Wei-Yun Ma  
- Goal-driven dialogue system.

## Publications

- 2018 **Speed Reading: Learning to Read ForBackward via Shuttle.**  
**Tsu-Jui Fu** and Wei-Yun Ma  
Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2018 (long paper)
- 2018 **Dynamic Video Segmentation Network.**  
Yu-Syuan Xu, **Tsu-Jui Fu**, Hsuan-Kung Yang, and Chun-Yi Lee  
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
- 2018 **Diversity-Driven Exploration Strategy for Deep Reinforcement Learning.**  
Zhang-Wei Hong, Tzu-Yun Shann, Shih-Yang Su, Yi-Hsiang Chang, **Tsu-Jui Fu**, and Chun-Yi Lee  
Conference on Neural Information Processing Systems (**NIPS**), 2018
- 2018 **Visual Relationship Prediction via Label Clustering and Incorporation of Depth.**  
Hsuan-Kung Yang, An-Chieh Cheng, Kuan-Wei Ho, **Tsu-Jui Fu**, and Chun-Yi Lee  
European Conference on Computer Vision (**ECCV**), 2018 (workshop)
- 2018 **GraphRel: Relation Extraction via Graph Convolutional Network.**  
**Tsu-Jui Fu**, Peng-Hsuan Li, and Wei-Yun Ma  
Submitted
- 2018 **Dialogue-based Diverse Travel Itinerary Recommendation System via Path Sampling.**  
**Tsu-Jui Fu**, Yu-Han Chen, Huan-Cheng Chang, and Wei-Yun Ma  
Submitted
- 2018 **Attend, Cut, and Judge: Video Summarization with Attentive and Adversarial Learning.**  
**Tsu-Jui Fu** and Hwann-Tzong Chen  
Submitted
- 2018 **Embedding Cluster for Accelerating Semantic Video Segmentation.**  
**Tsu-Jui Fu\***, Hsuan-Kung Yang\*, Kuan-Wei Ho, Po-Han Chiang and Chun-Yi Lee  
Submitted

- 2018 **Region-Semantics Preserving Image Synthesis.**  
Kang-Jun Liu, **Tsu-Jui Fu**, and Shan-Hung Wu  
Submitted
- 2018 **Adversarial Exploration Strategy for Self-Supervised Imitation Learning.**  
Zhang-Wei Hong, **Tsu-Jui Fu**, Tzu-Yun Shann, Yi-Hsiang Chang, Dong-Ying Kuo, and Chun-Yi Lee  
Submitted

## Selected Projects

- Fall 2017 **Native Ads.**  
An ad matching and generation system to match commodity and blog post along with sentences generated for sale promotion.  
- Selected as best popularity award of senior project contest.
- Fall 2017 **Pose Estimation with Human Segmentation Enhancement.**  
Joint learning of pose estimation and human segmentation to give bottom-up pose model a body structure concept, reducing false-positive prediction.  
- Selected as the best final project of EE648500 Computer Vision.
- Summer 2017 **Travel Itinerary Recommendation Chatbot.**  
A dialogue system which converses with user, extracts their preference and recommends a tailor-made travel itinerary.  
- Selected as silver medal of PIXENET chatbot competition.
- Fall 2016 **Give Me a God Reply.**  
Automatic reply system on Dcard forum.  
- Selected as judges' and best popularity award of senior project contest.

## Awards

- Summer 2018 **Second Place, *Person In Context Challenge*, ECCV 2018.**  
Awarded to team with excellent benchmark performance of PIC challenge
- Spring 2018 **Outstanding Students Conference Travel Grant, Foundation For The Advancement of Outstanding Scholarship (FAOS), Taiwan.**  
Providing travel grants to outstanding students to participate in international academic conferences
- Fall 2017 **Silver Medal, *PIXNET Chatbot Competition*, PIXENET Inc., Taiwan.**  
Awarded to team with excellent implementation and demo of chatbot
- 2016, 2017 **First Place, *MeiChu Hackathon*, National Chiao-Tung University.**  
Awarded to team with the best implementation and demo of hackathon
- 2016, 2017 **Judges' and Best Popularity Award, *Senior Project Contest*, National Tsing-Hua University.**  
Awarded to student with judges' award and the best popularity of project contest
- Fall 2015 **Third Place, *Open Source Competition*, National Tsing-Hua University.**  
Awarded to team with big open source contribution
- Fall 2014 **Presidential Award, *Computer Science*, National Tsing-Hua University.**  
Awarded to student with the top 5% GPA for that semester
- Fall 2013 **Third Place, *Taipei High School Informatics Competition*, Taipei.**  
Awarded to student in algorithm and data structure competition
- Fall 2012 **First Place, *Taipei High School Software Design Competition*, Taipei.**  
Awarded to student in algorithm and data structure competition

## Teaching

- Summer 2018 **Teaching Assistant, *Vision and Learning Summer School*, National Tsing-Hua University.**
- Spring 2018 **Teaching Assistant, *Nvidia Deep Learning Workshop*, National Central University.**
- Fall 2017 **Teaching Assistant, *Deep Learning*, National Tsing-Hua University.**
- Fall 2017 **Teaching Assistant, *Hardware Design and Lab*, National Tsing-Hua University.**

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## Programming Skills

Tensorflow, PyTorch, Torch, Keras, C, C++, Python, Java, Swift, Objective-C, Android, HTML, CSS, JavaScript.