Tsu-Jui Fu

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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 ($\sim$ 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.
Thesis: Speed Reading: Learning to Read ForBackward via Shuttle.

2017–Present **Umbo Computer Vision Inc.**, *Research Collaboration*, Taipei, Taiwan.
- Human pose estimation, video summarization, and image motion deblurring.
Thesis: Attend, Cut, and Judge: Video Summarization with Attentive and Adversarial Learning.

Summer 2017 **Academia Sinica**, *Research Intern*, Taipei, Taiwan.
Advisor: Wei-Yun Ma
- Goal-driven dialogue system.
Thesis: Dialogue-based Diverse Travel Itinerary Recommendation System via Path Sampling.

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 **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 **Region-Semantics Preserving Image Synthesis**.
Kang-Jun Liu, **Tsu-Jui Fu**, and Shan-Hung Wu
Submitted

2018 **Attend, Cut, and Judge: Video Summarization with Attentive and Adversarial Learning**.
Tsu-Jui Fu and Hwann-Tzong Chen
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 **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

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
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

Fall 2016   **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.

Programming Skills

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