Yi-Lin Tuan

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Education

- **University of California, Santa Barbara** *from Sep. 2019*
  Ph.D. in Computer Science
  Advisor: William Wang

- **National Taiwan University** *Sep. 2013 - June. 2017*
  B.S. in Electrical Engineering

PUBLICATIONS

[1] **Yi-Lin Tuan**, Yun-Nung Chen, and Hung-yi Lee. *DyKgChat: Benchmarking Dialogue Generation Grounding on Dynamic Knowledge Graphs.* Accepted by EMNLP 2019.

[2] Feng-Guang Su*, Aliyah Hsu*, **Yi-Lin Tuan**, and Hung-Yi Lee. *Personalized Dialogue Response Generation Learned from Monologues.* Accepted by Interspeech 2019.

[3] **Yi-Lin Tuan** and Hung-yi Lee. *Improving Conditional Sequence Generative Adversarial Network by Stepwise Evaluation.* IEEE/ACM Transactions on Audio, Speech, and Language Processing.

[4] Che-Ping Tsai*, **Yi-Lin Tuan***, and Lin-shan Lee. *Transcribing Lyrics from Commercial Song Audio: the First Step towards Singing Content Processing.* In proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018.

[5] **Yi-Lin Tuan***, Jinzhi Zhang*, Yujia Li, and Hung-yi Lee. *Proximal Policy Optimization and its Dynamic Version for Sequence Generation.* arXiv preprint arXiv:1808.07982.

* indicates co-first authors

Experience

- **National Taiwan University** *Oct. 2017 - July 2019*
  Research Assistant
  Advisors: Prof. Hung-yi Lee, Prof. Yun-Nung Chen and Prof. Lin-shan Lee
  - Open-domain Dialogue Generation with Knowledge Graphs Reasoning) [1]
  - Sequence Generation with Generative Adversarial Networks and Reinforcement Learning. [3, 5]
  - Spoken Language Processing – Lyrics Recognition. [4]

- **National Taiwan University** *Spring 2017*
  Teaching Assistant
  - CommE 5045, Machine Learning and Having it Deep and Structured
    * Tutored in GANs, deep reinforcement learning and chit-chat chatbots.
  - EE4049, Special Project
    * Led and advised undergraduate students working on open-domain dialogue generation. [2, 5]

Service

- **Second Reviewer**
  - Conferences: ACL 2018, EMNLP 2018, IJCAI 2019, EMNLP 2019
  - Journals: TASLP, CSL

Awards & Honors

- **Presidential Award, National Taiwan University** *2014*
- **NTU Electrical Engineering 1960 Alumni Scholarship** *2014 and 2016*
- **Outstanding Achievement Award (Innovate Asia Design Contest, Altera, Intel)** *Aug. 2016*

Term Project Highlights

- **Language Sentiment Classification** *Dec. 2015*
  EE 4037, Introduction to Digital Speech Processing, National Taiwan University
  Improved the classification of positive-negative sentiment of text using deep learning and external POS tagging.

Skills

- **Programming Languages**: Python, C/C++/C#, Shell Script, Matlab, System Verilog
- **Tools**: Tensorflow, Pytorch, Theano, Kaldi, Praat, Git, LaTeX