

# Yi-Lin Tuan

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## Education

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- **University of California, Santa Barbara** *from Sep. 2019*  
Ph.D. in Computer Science  
Advisor: William Yang Wang
- **National Taiwan University** *Sep. 2013 - June. 2017*  
B.S. in Electrical Engineering  
Advisors: Lin-shan Lee, Hung-yi Lee, Yun-Nung Chen

## CONFERENCE PAPERS

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- [1] **Yi-Lin Tuan**, Connor Pryor, Wenhua Chen, Lise Getoor, and William Yang Wang. “Local Explanation of Dialogue Response Generation”. In: *NeurIPS2021* (2021).
- [2] **Yi-Lin Tuan**, Ahmed El-Kishky, Adi Renduchintala, Vishrav Chaudhary, Francisco Guzmán, and Lucia Specia. “Quality Estimation without Human-labeled Data”. In: *EACL2021 (short paper)* (2021).
- [3] **Yi-Lin Tuan**, Yun-Nung Chen, and Hung-yi Lee. “DyKgChat: Benchmarking Dialogue Generation Grounding on Dynamic Knowledge Graphs”. In: *EMNLP-IJCNLP (long paper)* (2019).
- [4] Feng-Guang Su\*, Aliyah R Hsu\*, **Yi-Lin Tuan**, and Hung-Yi Lee. “Personalized Dialogue Response Generation Learned from Monologues”. In: *Interspeech* (2019).
- [5] Che-Ping Tsai\*, **Yi-Lin Tuan\***, and Lin-shan Lee. “Transcribing lyrics from commercial song audio: the first step towards singing content processing”. In: *ICASSP*. 2018.

## JOURNAL ARTICLES

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- [6] **Yi-Lin Tuan** and Hung-Yi Lee. “Improving conditional sequence generative adversarial networks by stepwise evaluation”. In: *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 27.4 (2019), pp. 788–798.

## PREPRINT AND UNDER REVIEW

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- [7] Alon Albalak, Varun Embar, **Yi-Lin Tuan**, Lise Getoor, and William Yang Wang. “D-REX: Dialogue Relation Extraction with Explanations”. In: *arXiv preprint arXiv:2109.05126* (2021).
- [8] **Yi-Lin Tuan**, Wei Wei, and William Wang. “Knowledge Injection into Dialogue Generation via Language Models”. In: *arXiv preprint arXiv:2004.14614v2* (2021).
- [9] Zih-Yun Chiu, **Yi-Lin Tuan**, Hung-yi Lee, and Li-Chen Fu. “Parallelized Reverse Curriculum Generation”. In: *arXiv preprint arXiv:2108.02128* (2018).
- [10] **Yi-Lin Tuan\***, Jinzhi Zhang\*, Yujia Li, and Hung-yi Lee. “Proximal Policy Optimization and its Dynamic Version for Sequence Generation”. In: *arXiv preprint arXiv:1808.07982* (2018).

## Experience

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- **Amazon Alexa** *Applied Science Intern* *June 2021 - Sep. 2021*  
Advisors: Sajjad Beygi, Maryam Fazel-Zarandi, Qiaozi Gao, Alessandra Cervone
  - Worked on natural language understanding in dialogue systems.
- **Facebook** *Research Intern* *June 2020 - Sep. 2020*  
Advisors: Ahmed El-Kishky, Adithya Renduchintala, Vishrav Chaudhary, Francisco Guzmán, Lucia Specia
  - Worked on quality estimation of machine translation. Compared with work using human annotations, we can achieve comparable or even better quality estimation performance using data synthesis method [2].
- **National Taiwan University** *Research Assistant* *Sep. 2017 - Aug. 2019*  
Advisors: Hung-yi Lee, Yun-Nung Chen, Lin-shan Lee
  - Worked on generative adversarial networks and reinforcement learning in conditional sequence generation for computational efficiency, optimization, and application. [6, 4, 10]
  - Worked on temporal knowledge graph-grounded dialogue generation and collected needed conversational TV series data. [3]
  - Worked on lyrics recognition and collected vocal-only songs data for transcribing tasks. [5]

## Teaching Experience

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- **CommE 5045 in National Taiwan University** *Teaching Assistant* *Spring 2017*
  - Tutored in adversarial learning, deep reinforcement learning and chit-chat chatbots.

## Service

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- **Reviewer/Second Reviewer:**  
AAAI2021, IJCAI 2019, EMNLP 2019, EMNLP2018, ACL2018, TASLP, CSL, APSIPA

## Talks

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- Contributed talk "Dynamic Knowledge-Grounded Dialogue Generation through Walking on the Graph", SoCalNLP19

## Awards & Honors

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- **Best Paper Award SAP, SoCalNLP19** [3] *Sep. 2019*
- **Outstanding Achievement Award (Innovate Asia Design Contest, Altera)** *Aug. 2016*  
Awarded for a designed FPGA mobile 3D projector.
- **NTU Electrical Engineering 1960 Alumni Scholarship** *2014 and 2016*  
Awarded twice one-year scholarship.
- **Presidential Award (rank 1/169), National Taiwan University** *2014*

## Skills

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- **Programming Languages:** Python, C/C++/C#, Shell Script, Matlab, System Verilog
- **Tools:** Pytorch, Tensorflow, Theano, Kaldi, Praat, Git, L<sup>A</sup>T<sub>E</sub>X