Yu-An Wang/ заказание Казариина Каз

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Education_____

National Taiwan University	Taipei, Taiwan
M.S in Computer Science & Information Engineering (CSIE)	2019.9 - 2021.6
 GPA:4.25/4.30 (top 4%) Thesis Topic: Investigating Positional Encoding in Pre-Trained Language Models 	
National Taiwan University	Taipei, Taiwan
B.S in Computer Science & Information Engineering (CSIE)	2015.9 - 2019.6
• GPA:3.74/4.30 (top 42%)	
Experience	
Software Engineer	Taipei, Taiwan
Chrome OS, Google Taiwan	2021.7 - Present
Graduate Student Researcher	Taipei, Taiwan
Machine Intelligence & Understanding Lab, National Taiwan University	2019.9 - 2021.6
 Advisor: Yun-Nung (Vivian) Chen Research topic: Positional Encoding in Language Models Analyzed the effectiveness of pre-trained position embedding on NLP tasks. Published in EMNLP 2020[2]. Research topic: Dialogue Policy Learning Continued the research topic from undergraduate. Published in ASRU 2019[3]. 	
Teaching Assistant	Taipei, Taiwar
National Taiwan University	2019.2 - 2021.6
• [CSIE5431] Applied Deep Learning (2019 Spring, 2020 Spring, 2021 Spring)	
Research & Software Engineer Intern	Taipei, Taiwar
News Retrieval Team, Taiwan AlLabs	2019.7 - 2019.10
 Project: Islander.cc (島民衛星). (https://islander.cc) Designed the news retrieval algorithms, including news grouping, user comment analysis, and etc. Developed the early-stage website front-end, and back-end services including RESTful API, Relational Database Manage Experienced with CI/CD deployment and Agile software development. 	gement, and etc.
Undergraduate Research Assistant	Taipei, Taiwan
Machine Intelligence & Understanding Lab, National Taiwan University	2018.2 - 2019.6
 Advisor: Yun-Nung (Vivian) Chen Research topic: Dialogue Policy Learning Analyzed different reinforcement learning algorithms on dialogue policy. Engaged in SLT 2018 Special Session - Microsoft Dialogue Challenge and won first place on leader board. 	

- Research topic: Music Generation
 - Researched on generating symbolic-domain music with variational autoencoder(VAE).
 - Published in ICASSP 2019[4].

Research Intern

DMS Speech Team, Delta Electronic Taiwan

• Project: End-to-End Trigger Word Detection

• Developed an end-to-end CNN+RNN model to detect trigger word speech system achieving over 99% precision and recall.

Undergraduate Research Assistant

Speech Processing Lab, National Taiwan University

- Advisor: Lin-shan Lee
- Researched on deep reinforcement learning.

Publications

- Yu-Kai Huang, Yueh-Cheng Liu, Tsung-Han Wu, Hung-Ting Su, Yu-Cheng Chang, Tsung-Lin Tsou, Yu-An Wang, Winston Hsu,
 "S3: Learnable Sparse Signal Superdensity for Guided Depth Estimation," Accepted by 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2021)
- [2] **Yu-An Wang**, Yun-Nung Chen. "What Do Position Embeddings Learn? An Empirical Study of Pre-Trained Language Model Positional Encoding," In *The 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)*
- [3] **Yu-An Wang**, Yun-Nung Chen. "Dialogue Environments are Different from Games: Investigating Variants of Deep Q-Networks for Dialogue Policy," In 2019 IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU 2019)
- [4] **Yu-An Wang**, Yu-Kai Huang, Tzu-Chuan Lin, Shang-Yu Su, Yun-Nung Chen. "Modeling Melodic Feature Dependency with Modularized Variational Auto-Encoder," In *The 44th IEEE International Conference on Acoustics, Speech, and Signal Processing* (ICASSP 2019)

Honors & Awards_____

NTU Bachelor Thesis Award	Taipei, Taiwan
National Taiwan University	2019.6
 Dean's award of CSIE department. Thesis title: <i>Investigating Variants of Deep Q-Networks for Dialogue Policy</i> 	
ACLCLP Scholarship	Taipei, Taiwan
The Association for Computational Linguistics and Chinese Language Processing	2019.5
Travel grant for ICASSP 2019.	
SLT 2018 Special Session - Microsoft Dialogue Challenge	Athens, Greece
IEEE SLT 2018	2018.12
Won first place on leader board.Oral presentation in SLT 2018.	

Skills_

Machine Learning, Deep Learning, UNIX-like Operating System, Software Engineering, Database Management

Programming Languages: C, PYTHON, JAVA

2018.6 - 2018.8

Taipei, Taiwan

2017.9 - 2018.6