

Qingyang Wu

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Education

2021 - Present

Columbia University in the City of New York

Ph.D.'s degree in Computer Science

- Supervised by Prof. Zhou Yu

2018 - 2021

University of California, Davis

Master's degree in Computer Science (Transferred to Columbia University)

- Supervised by Prof. Zhou Yu
- GPA 4.000

2014 - 2018

University of California, Davis

Bachelor's degree in Computer Science and Engineering

- Department Citation Award
- GPA 3.803

Research Experience

2021 - Present

Natural Language Processing Lab, Columbia University

Graduate Research Assistant

- Supervisor: Professor Zhou Yu
- Conducted research on NLP

2021 Summer

IBM Research

Research Intern

- Supervisor: Song Feng
- Studied document-grounded dialog systems

2018 - 2021

Natural Language Processing Lab, UC Davis

Graduate Research Assistant

- Supervisor: Professor Zhou Yu
- Conducted research on NLP

2017 - 2018

Data-Driven Networking Lab, UC Davis

Undergraduate Research Intern

- Supervisor: Professor Xin Liu
- Research: LSTM for Radiofrequency Fingerprint

Research Interests

My main research focus is on text generation and language models. Particularly, I am interested in building a general interactive dialog system with neural networks.

Skills

- **Programming:** Python, C/C++, Java, CUDA
- **Deep Learning:** PyTorch, Distributed Training
- **Misc:** AWS EC2, GCP, Slurm, OpenCV, OpenGL, Unity, HTML, IoT (Arduino, Embedded System)

Publications

Memformer: The Memory-Augmented Transformer: Qingyang Wu, Zhenzhong Lan, Jing Gu, Zhou Yu, arXiv preprint arXiv:2010.06891 (preprint under review)

A Tailored Pre-Training Model for Task-Oriented Dialog Generation: Jing Gu*, Qingyang Wu*, Chongruo Wu, Weiyan Shi, Zhou Yu, ACL 2021

On the Generation of Medical Dialogues for COVID-19: Wenmian Yang, Guangtao Zeng, Bowen Tan, Zeqian Ju, Subrato Chakravorty, Xuehai He, Shu Chen, Xingyi Yang, Qingyang Wu, Zhou Yu, Eric Xing, Pengtao Xie, ACL 2021

Alternating Recurrent Dialog Model with Large-scale Pre-trained Language Models: Qingyang Wu, Yichi Zhang, Yu Li, and Zhou Yu, EACL 2021

TextGAIL: Generative Adversarial Imitation Learning for Text Generation: Qingyang Wu, Lei Li, Zhou Yu, AAAI 2021

Perception Score, A Learned Metric for Open-ended Text Generation Evaluation: Jing Gu, Qingyang Wu, Zhou Yu, AAAI 2021

Importance-Aware Learning for Neural Headline Editing: Qingyang Wu, Lei Li, Hao Zhou, Ying Zeng, and Zhou Yu, AAAI 2020

Quantifying Intrinsic Uncertainty in Classification via Deep Dirichlet Mixture Networks: Qingyang Wu, He Li, Lexin Li, Zhou Yu, arXiv preprint arXiv:1906.04450

Deep learning based RF fingerprinting for device identification and wireless security:
Qingyang Wu, Carlos Feres, Daniel Kuzmenko, Ding Zhi, Zhou Yu, and Xin Liu, Electronics
Letters 54 (24)