

## Zi-Yi Dou

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### EDUCATION

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#### University of California, Los Angeles

Aug. 2020 – Jan. 2025

*Ph.D. in Computer Science*

- Advisor: Nanyun Peng
- Funded by Amazon PhD Fellowship, JPMC PhD Fellowship

#### Carnegie Mellon University

Aug. 2018 – Aug. 2020

*M.S. in Language Technologies*

- Advisor: Graham Neubig
- GPA: 4.01/4.33

#### Nanjing University

Sep. 2014 – Jul. 2018

*B.S. in Computer Science, Minor in Statistics*

- National Elite Program, Kuang Yaming Honors School
- Exchange student at UC Berkeley, worked with Prof. Joseph E. Gonzalez (Fall 2017)
- GPA: 91.12/100.0, Ranking: 1/18

### EXPERIENCE

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#### xAI

Nov. 2025 – Present

*Member of Technical Staff*

- post-training at the Macrohard team

#### Apple

Jan. 2025 – Nov. 2025

*Research Scientist at Apple AI/ML*

- Managers: Zhe Gan, Yinfei Yang
- Apple foundation models: multimodal posttraining; researching multimodal reasoning and agents

#### Meta

Jun. 2024 – Oct. 2024

*Research Intern at FAIR Perception*

- Peers: Pengchuan Zhang, Kate Saenko, Shoubhik Debnath, Didac Suris Coll-Vinent, Nicolas Carion
- Interned at the Segment Anything (SAM) team
- Worked on visually grounded reasoning for Llama

#### Meta

Jun. 2023 – Dec. 2023

*Research Intern at FAIR Multimodal Foundations*

- Peers: Fu-Jen Chu, Kris Kitani, Xitong Yang, Tushar Nagarajan, Huiyu Wang, Jing Huang
- Worked on egocentric video-language pretraining

#### Microsoft

May 2021 – Sep. 2022

*Research Intern at Project Florence-Vision and Language*

- Mentor: Zhe Gan
- Worked on vision-language pretraining and its applications in object detection/segmentation

### PUBLICATIONS

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- AFM Team, *Apple Intelligence Foundation Language Models*, 2025.
- Zhen Yang\*, **Zi-Yi Dou\***, Feng Di\*, Forrest Huang, Anh Nguyen, Keen You, Omar Attia, Yuhao Yang, Michael Feng, Haotian Zhang, Ram Ramrakhya, Chao Jia, Jeffrey Nichols, Alexander Toshev, Yinfei Yang, Zhe Gan, *Ferret-UI Lite: Lessons from Building Small On-Device GUI Agents*, 2025.
- Yuhao Yang, Zhen Yang, **Zi-Yi Dou**, Anh Tuan Nguyen, Omar Attia, Andrew Szot, Keen You, Michael Feng, Ram Ramrakhya, Alexander Toshev, Chao Huang, Yinfei Yang, Zhe Gan, *UltraCUA: Scaling Computer Use Agent through GUI and Programmatic Control*, 2025.

- Yanghao Li, Rui Qian, Bowen Pan, Haotian Zhang, Haoshuo Huang, Bowen Zhang, Jialing Tong, Haoxuan You, Xianzhi Du, Zhe Gan, Hyunjik Kim, Chao Jia, Zhenbang Wang, Yinfei Yang, **Zi-Yi Dou**, Wenze Hu, Chang Gao, Dongxu Li, Philipp Dufter, Zirui Wang, Guoli Yin, Zhengdong Zhang, Chen Chen, Yang Zhao, Ruoming Pang, Zhifeng Chen, *MANZANO: A Simple and Scalable Unified Multimodal Model with a Hybrid Vision Tokenizer*, 2025.
- **Zi-Yi Dou**, Xitong Yang, Tushar Nagarajan, Huiyu Wang, Jing Huang, Nanyun Peng, Kris M. Kitani, and Fu-Jen Chu, “*Unlocking Exocentric Data for Egocentric Video Representation Learning*”, Preprint 2024.
- Wenbo Hu, **Zi-Yi Dou**, Liunian Harold Li, Amita Kamath, Nanyun Peng, and Kai-Wei Chang, “*MQT-LLaVA: Matryoshka Query Transformer for Large Vision-Language Models*”, NeurIPS 2024.
- **Zi-Yi Dou**, Cheng-Fu Yang, Xueqing Wu, Kai-Wei Chang, Nanyun Peng, “*Re-ReST: Reflection-Reinforced Self-Training for Language Agents*”, EMNLP 2024.
- Liunian Harold Li\*, **Zi-Yi Dou\***, Nanyun Peng, and Kai-Wei Chang, “*DesCo: Learning Object Recognition with Rich Language Descriptions*”, NeurIPS 2023. **CVPR OmniLabel 2023 Challenge Winner (1st place)**.
- Xueyan Zou\*, **Zi-Yi Dou\***, Jianwei Yang\*, Zhe Gan, Linjie Li, Chunyuan Li, Xiyang Dai, Harkirat Behl, Jianfeng Wang, Lu Yuan, Nanyun Peng, Lijuan Wang, Yong Jae Lee, and Jianfeng Gao, “*Generalized Decoding for Pixel, Image, and Language*”, CVPR 2023.
- **Zi-Yi Dou\***, Aishwarya Kamath\*, Zhe Gan\*, Pengchuan Zhang, Jianfeng Wang, Linjie Li, Zicheng Liu, Ce Liu, Yann LeCun, Nanyun Peng, Jianfeng Gao and Lijuan Wang, “*Coarse-to-Fine Vision-Language Pre-training with Fusion in the Backbone*”, NeurIPS 2022.
- **Zi-Yi Dou**, Yichong Xu, Zhe Gan, Jianfeng Wang, Shuohang Wang, Lijuan Wang, Chenguang Zhu, Nanyun Peng, Zicheng Liu and Michael Zeng, “*An Empirical Study of Training End-to-End Vision-and-Language Transformers*”, CVPR 2022.
- **Zi-Yi Dou** and Nanyun Peng, “*FOAM: A Follower-aware Speaker Model for Vision-and-Language Navigation*”, NAACL 2022.
- **Zi-Yi Dou** and Nanyun Peng, “*Improving Pre-trained Vision-and-Language Embeddings for Phrase Grounding*”, EMNLP 2021.
- **Zi-Yi Dou** and Graham Neubig, “*Word Alignment by Fine-tuning Embeddings on Parallel Corpora*”, EACL 2021.
- Yixin Liu, **Zi-Yi Dou** and Pengfei Liu, “*RefSum: Refactoring Neural Summarization*”, NAACL 2021.
- **Zi-Yi Dou**, Pengfei Liu, Hiroaki Hayashi, Zhengbao Jiang and Graham Neubig, “*GSum: A General Framework for Guided Neural Abstractive Summarization*”, NAACL 2021.
- **Zi-Yi Dou**, Antonios Anastasopoulos and Graham Neubig, “*Dynamic Data Selection and Weighting for Iterative Back-Translation*”, EMNLP 2020.
- **Zi-Yi Dou**, Sachin Kumar and Yulia Tsvetkov, “*A Deep Reinforced Model for Zero-Shot Cross-Lingual Summarization with Bilingual Semantic Similarity Rewards*”, ACL 2020 WNGT.
- **Zi-Yi Dou**, Junjie Hu, Antonios Anastasopoulos and Graham Neubig, “*Unsupervised Domain Adaptation for Neural Machine Translation with Domain-Aware Feature Embeddings*”, EMNLP 2019.
- **Zi-Yi Dou**, Keyi Yu and Antonios Anastasopoulos, “*Investigating Meta-Learning Algorithms for Low-Resource Natural Language Understanding Tasks*”, EMNLP 2019.
- Graham Neubig, **Zi-Yi Dou**, Junjie Hu, Paul Michel, Danish Pruthi, Xinyi Wang and John Wieting, “*compare-mt: A Tool for Holistic Comparison of Language Generation Systems*”, NAACL 2019 Demo. **Best Demo Runner-up**.
- **Zi-Yi Dou**, Zhaopeng Tu, Xing Wang, Longyue Wang, Shuming Shi and Tong Zhang, “*Dynamic Layer Aggregation for Neural Machine Translation with Routing-by-Agreement*”, AAAI 2019.
- **Zi-Yi Dou**, Zhaopeng Tu, Xing Wang, Shuming Shi and Tong Zhang, “*Exploiting Deep Representations for Neural Machine Translation*”, EMNLP 2018.
- Xin Wang, Fisher Yu, **Zi-Yi Dou**, Trevor Darrel and Joseph E. Gonzalez, “*SkipNet: Learning Dynamic Routing in Convolutional Networks*”, ECCV 2018.
- **Zi-Yi Dou**, “*Capturing User and Product Information for Document Level Sentiment Analysis with Deep Memory Network*”, EMNLP 2017.

## AWARDS

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JPMC PhD Fellowship	July 2024
UCLA Outstanding Graduate Student Research Award	May 2023
NeurIPS Scholar Award	Oct. 2022, Oct. 2023
Amazon PhD Fellowship	Sep. 2022
NAACL Best System Demonstration Runner-up	Jun. 2019
AAAI Scholar Award	Jan. 2019
Nanjing University Outstanding Graduate Award	Jul. 2018
China National Scholarship	Sep. 2017

## SERVICE

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Reviewer for ACL, EMNLP, NAACL, ACL Rolling Review, COLM, ICML, NeurIPS, ICLR, CVPR, ICCV, ECCV, AAAI  
Area Chair for ACL, EMNLP, ACL Rolling Review