

Weiyan Shi

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📁 <https://wyshi.github.io/>

Education

- 2021-Present **Columbia University, New York, NY**
Ph.D. in Computer Science, Advisor: [Zhou Yu](#)
Research interests: Natural Language Processing, specifically, Dialogue Systems
[Google Scholar](#)
- 2018-2021 **University of California, Davis, CA**
Ph.D. in Computer Science, Advisor: [Zhou Yu](#)
- 2015-2016 **University of California, Berkeley, CA**
Master of Arts in Statistics
- 2011-2015 **Renmin University of China, Beijing, China**
Bachelor of Science in Mathematics and Applied Mathematics

Awards and Honors

- 2019 **Best Paper Nomination**, ACL 2019
- 2018-2023 Dean's Distinguished Graduate Fellowship, UC, Davis
- 2016 Department Citation in the Statistics Master's Program (top 1), UC, Berkeley
- 2016 MA Speaker at Department Commencement, UC, Berkeley
- 2013 National Scholarship for Excellent Academic Performance, RUC
- 2013 Presidential Fellowship for Studying Abroad, RUC

Publications

- In submission **Selective Differential Privacy for Language Modeling**
Weiyan Shi, Aiqi Cui, Evan Li, Ruoxi Jia, Zhou Yu
arXiv preprint arXiv:2108.12944, in submission
- In submission **What Does the Bot Do? Detecting Repetition and Contradiction in Dialogues by Asking and Answering Questions**
Weiyan Shi, Mary Williamson, Jason Weston, Mike Lewis, Zhou Yu
- In submission **DEUX: An Attribute-Guided Framework for Sociable Recommendation Dialog Systems**
Yu Li, Shirley Anugrah Hayati, Weiyan Shi, Zhou Yu
arXiv preprint arXiv:2105.00825, in submission
- In submission **Towards Socially Intelligent Agents with Mental State Transition and Human Utility**
Liang Qiu, Yizhou Zhao, Yuan Liang, Pan Lu, Weiyan Shi, Zhou Yu, Song-Chun Zhu
arXiv preprint arXiv:2103.07011, in submission

- EMNLP 2021 Findings **Refine and Imitate: Reducing Repetition and Inconsistency in Persuasion Dialogues via Reinforcement Learning and Human Demonstration**
Weiyan Shi, Yu Li, Saurav Sahay, Zhou Yu
 arXiv preprint arXiv:2012.15375, EMNLP 2021 Findings
- ACL 2020 Demo **LEGOEval: An Open-Source Toolkit for Dialogue System Evaluation via Crowdsourcing**
 Yu Li, Josh Arnold, Feifan Yan, *Weiyan Shi*, Zhou Yu
 The 2021 Annual Meeting of the Association for Computational Linguistics.
- EMNLP 2020 **INSPIRED: Toward Sociable Recommendation Dialog Systems**
 Shirley Anugrah Hayati, Dongyeop Kang, Qingxiaoyang Zhu, *Weiyan Shi*, Zhou Yu
 The 2020 Conference on Empirical Methods in Natural Language Processing.
- EMNLP 2020 **Structured Attention for Unsupervised Dialogue Structure Induction**
 Liang Qiu, Yizhou Zhao, *Weiyan Shi*, Yuan Liang, Feng Shi, Tao Yuan, Zhou Yu, Song-Chun Zhu
 The 2020 Conference on Empirical Methods in Natural Language Processing.
- EMNLP 2020 Findings **Understanding User Resistance Strategies in Persuasive Conversations**
 Youzhi Tian, *Weiyan Shi*, Chen Li, Zhou Yu
 The 2020 Conference on Empirical Methods in Natural Language Processing.
- CHI 2020 **Effects of Persuasive Dialogues: Testing Bot Identities and Inquiry Strategies**
Weiyan Shi, Xuwei Wang, Yoo Jung Oh, Jingwen Zhang, Saurav Sahay, Zhou Yu
 Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems.
- AAAI 2020 **End-to-End Trainable Non-Collaborative Dialog System.**
 Yu Li, Kun Qian, *Weiyan Shi*, Zhou Yu
 Proceedings of the 2020 AAAI Conference on Artificial Intelligence.
- EMNLP-IJCNLP 2019 **How to Build User Simulators to Train RL-based Dialog Systems**
*Weiyan Shi**, Kun Qian* (equal contribution), Xuwei Wang, Zhou Yu
 The 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing.
- ACL 2019 **Persuasion for Good: Towards a Personalized Persuasive Dialogue System for Social Good**
 Xuwei Wang*, *Weiyan Shi** (equal contribution), Richard Kim, Yoojung Oh, Sijia Yang, Jingwen Zhang, Zhou Yu
 The 57th Annual Meeting of the Association for Computational Linguistics.
Best Paper Nomination (28/2905, 1%).

NAACL 2019 **Unsupervised Dialog Structure Learning**

Weiyan Shi, Tiancheng Zhao, Zhou Yu

The 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics.

ACL 2018 **Sentiment Adaptive End-to-End Dialog Systems**

Weiyan Shi, Zhou Yu

The 56th Annual Meeting of the Association for Computational Linguistics.

RepL4NLP workshop at **Exploiting Common Characters in Chinese and Japanese to Learn Cross-Lingual Word Embeddings via Matrix Factorization**

ACL 2018 Jilei Wang*, Shiyang Luo* (equal contribution), Weiyan Shi, Tao Dai, Shu-Tao Xia

The Third RepL4NLP workshop of the Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics.

Professional Experience

2021.5– **Facebook AI Research, Seattle, WA (Remote)**

Present *Research Intern, Host: Michael Lewis*

- Work on zero-shot nonsense detection.

2020.6– **Facebook AI Research, Seattle, WA (Remote)**

2020.12 *Research Intern, Host: Michael Lewis*

- Worked on strategic dialogue generation.

2016–2018 **[24]7.ai, San Jose, CA**

Full-time Data Scientist

- Worked on real-world natural-language-related projects in the customer service domain, such as audio data collection, intent classification, dialogue workflow extraction, dialogue intent transition, and chatbot building with deep learning techniques.
- Implemented and applied models from academic papers to real-world natural-language data, and presented results to team members during weekly research meetings.

Service

2021 Program Committee/Reviewer in ICLR, AAAI, EACL, NAACL, Neurocomputing, ACL, *SEM, NeurIPS, EMNLP

2020 Program Committee/Reviewer in ACL, THRI, *SEM

2019 Program Committee/Reviewer in ACL