

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

Publications

- In submission **Selective Differential Privacy for Language Modeling**
[Weiyan Shi](#), Aiqi Cui, Evan Li, Ruoxi Jia, Zhou Yu
- 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 **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, in submission
- 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
- 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 **Understanding User Resistance Strategies in Persuasive Conversations**
 Findings 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*, Shiyong 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*

- Work 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.

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

Service

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

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

2019 Program Committee/Reviewer in ACL