

# Weiyan Shi

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CONTACT	<a href="mailto:ws2634@columbia.edu">ws2634@columbia.edu</a> <a href="https://github.com/wyshi">wyshi.github.io</a> <a href="#">Google Scholar</a>	
RESEARCH INTERESTS	· Dialog systems, especially strategic dialog systems, e.g., persuasive dialogs · Safety in NLP, e.g., privacy-preserving models	
EDUCATION	<b>Columbia University</b> Ph.D. in Computer Science Advisor: <a href="#">Zhou Yu</a>	2020 - 2023 (anticipated)
	<b>University of California, Davis</b> Ph.D. in Computer Science (transferred out)	2018 - 2020
	<b>University of California, Berkeley</b> M.A. in Statistics	2015 - 2016
	<b>Renmin University of China</b> B.S. in Mathematics and Applied Mathematics	2011 - 2015
AWARDS & HONORS	<b>Best Paper Nomination, ACL</b> Dean's Distinguished Ph.D. Fellowship, UC, Davis Department Citation in the Master's Program (top 1), UC, Berkeley MA Speaker at Department Commencement (top 1), UC, Berkeley National Scholarship, RUC Presidential Fellowship for Studying Abroad, RUC	2019 2018-2023 2016 2016 2014 2013
PRIOR POSITIONS	<b>Research Intern</b> , Facebook AI Research <i>Host</i> : Mike Lewis <i>Project</i> : Zero-shot dialog nonsense detection	2021.05 - 2021.12
	<b>Research Intern</b> , Facebook AI Research <i>Host</i> : Mike Lewis <i>Project</i> : Strategic negotiation dialog generation	2020.06 - 2020.12
	<b>Full-time Data Scientist</b> , [24]7.ai Customer service chatbot development	2016 - 2018

**PUBLICATIONS** *The listed conferences are top-tier in NLP with acceptance rates between 20%-25%.*

## [Selective Differential Privacy for Language Modeling](#)

Weiyan Shi, Aiqi Cui, Evan Li, Ruoxi Jia, Zhou Yu

North American Chapter of the Association for Computational Linguistics (NAACL), 2022

**Refine and Imitate: Reducing Repetition and Inconsistency in Persuasion Dialogues via Reinforcement Learning and Human Demonstration**

Weiyan Shi, Yu Li, Saurav Sahay, Zhou Yu

Empirical Methods in Natural Language Processing (EMNLP) 2021 Findings

**LEGOEval: An Open-Source Toolkit for Dialog System Evaluation via Crowdsourcing**

Yu Li, Josh Arnold, Feifan Yan, Weiyan Shi, Zhou Yu

Annual Meeting of the Association for Computational Linguistics (ACL) 2021 Demo

**PRAL: A tailored pre-training model for task-oriented dialog generation**

Jing Gu, Qingyang Wu, Chongruo Wu, Weiyan Shi, Zhou Yu

Annual Meeting of the Association for Computational Linguistics (ACL) 2021

**INSPIRED: Toward Sociable Recommendation Dialog Systems**

Shirley Anugrah Hayati, Dongyeop Kang, Qingxiaoyang Zhu, Weiyan Shi, Zhou Yu

Empirical Methods in Natural Language Processing (EMNLP) 2020

**Structured Attention for Unsupervised Dialog Structure Induction**

Liang Qiu, Yizhou Zhao, Weiyan Shi, Yuan Liang, Feng Shi, Tao Yuan, Zhou Yu, Song-Chun Zhu

Empirical Methods in Natural Language Processing (EMNLP) 2020

**Understanding User Resistance Strategies in Persuasive Conversations**

Youzhi Tian, Weiyan Shi, Chen Li, Zhou Yu

Empirical Methods in Natural Language Processing (EMNLP) 2020 Findings

**Effects of Persuasive Dialogs: Testing Bot Identities and Inquiry Strategies**

Weiyan Shi, Xuewei Wang, Yoo Jung Oh, Jingwen Zhang, Saurav Sahay, Zhou Yu

Conference on Human Factors in Computing Systems (CHI) 2020

**End-to-End Trainable Non-Collaborative Dialog System**

Yu Li, Kun Qian, Weiyan Shi, Zhou Yu

AAAI Conference on Artificial Intelligence (AAAI) 2020

**How to Build User Simulators to Train RL-based Dialog Systems**

Weiyan Shi\*, Kun Qian\* (equal contribution), Xuewei Wang, Zhou Yu

Empirical Methods in Natural Language Processing (EMNLP) 2019

**Persuasion for Good: Towards a Personalized Persuasive Dialog System for Social Good**  
**Best Paper Nomination**

Xuewei Wang\*, Weiyan Shi\* (equal contribution), Richard Kim, Yoojung Oh, Sijia Yang, Jingwen Zhang, Zhou Yu

Annual Meeting of the Association for Computational Linguistics (ACL) 2019

**Unsupervised Dialog Structure Learning**

Weiyan Shi, Tiancheng Zhao, Zhou Yu

North American Chapter of the Association for Computational Linguistics (NAACL) 2019

## Sentiment Adaptive End-to-End Dialog Systems

Weiyan Shi, Zhou Yu

Annual Meeting of the Association for Computational Linguistics (ACL) 2018

## Preprints

### Just Fine-tune Twice: Selective Differential Privacy for Large Language Models

Weiyan Shi, Si Chen, Chiyuan Zhang, Ruoxi Jia, Zhou Yu

arXiv, 2022

### Seamlessly Integrating Factual Information and Social Content with Persuasive Dialogue

Maximillian Chen, Weiyan Shi, Feifan Yan, Ryan Hou, Jingwen Zhang, Saurav Sahay, Zhou Yu

arXiv, 2022

GRANTS	Co-writer, “Selective Differential Privacy in Language Modeling”, Cisco Research Grant, 2022-2023. (PI: Zhou Yu)	
TALKS	<i>Reducing Repetition and Contradiction in Dialog Systems</i> , Columbia NLP Seminar, Spring 2021 <i>Selective Differential Privacy in Language Modeling</i> , Columbia NLP Seminar, Fall 2021 <i>Sentiment-adaptive Dialog Systems</i> , Cresta, Spring 2019	
MENTORING	<b>Ryan Shea</b> Master student Project: Membership inference attack on NLP models	2022-Present Columbia University
	<b>Evan Li</b> Undergraduate student Project: Differential privacy and attack model applications on NLP	2021 Columbia University
	<b>Chelsea Cui</b> Master student (Now at Amazon) Project: Differential privacy and dialog simulation	2021 Columbia University
	<b>Xuwei Wang</b> Undergraduate student (Now at Meta) Project: Persuasive dialogs and dialog user simulator	2019-2020 Zhejiang University
TEACHING	<i>Guest Lecturer</i> : Natural Language Processing, Columbia University <i>Topic</i> : Dialog System	Spring 2022
	<i>Teaching Assistant</i> : Conversational AI Special Topics, Columbia University	Spring 2021
SERVICE	<b>Publicity Chair</b> : 4th Workshop for Conversational AI, ACL 2022	
	<b>Program Committee/Conference Reviewer</b> :	

ACL 2019, ACL 2020, \*SEM 2020, ICLR 2021, AAAI 2021, EACL 2021, NAACL 2021, ACL 2021, \*SEM 2021, NeurIPS 2021, EMNLP 2021, NLPCC 2021, ICLR 2022, AAAI 2022, ICML 2022, ACL 2022, CHI 2022, SIGDIAL 2022, HCI+NLP workshop at NAACL 2022, ACL Rolling Review 2021-2022

**Journal Reviewer:**

ACM Transactions on Human-Robot Interaction, Neurocomputing, ACM Transactions on Information Systems