Shuyang Li, Ph.D.

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EDUCATION

University of California, San Diego, San Diego, CA   MS 2021, PhD 2022
    Advisor: Dr. Julian McAuley
    Area: Computer Science and Engineering, Machine Learning
    Thesis: *Personalizing Interactive Agents*

Princeton University, Princeton, NJ   BSE 2016
    Major: Operations Research and Financial Engineering (ORFE)

RESEARCH & WORK EXPERIENCE

Meta   Aug. 2022 – *Present*
Research Scientist

University of California San Diego   Sep. 2018 – June 2022
Graduate Student Researcher

Salesforce Research   Oct. 2021 – Jan. 2022
Research Intern (PhD)

Amazon, Alexa Natural Language Understanding   June 2021 – Oct. 2021
Applied Scientist Intern (PhD)

Amazon, Alexa Natural Language Understanding   June 2020 – Oct.2020
Applied Scientist Intern (PhD)

Google, Kaggle Datasets (Google Cloud AI)   June 2019 – Sep. 2019
Software Engineering Intern (PhD)

Bloomberg, Structured Products Waterfall   June 2017 – Sep. 2018
Senior Software Engineer

Goldman Sachs, Operations Automation and Analytics Technology   July 2016 – June 2017
Technology Analyst

SELECTED PUBLICATIONS (* indicates equal contribution)

Li, S., Li, Y., Ni, J., McAuley, J. (2022). SHARE: a System for Hierarchical Assistive Recipe Editing. *EMNLP.*

Li, S., Sridhar, M., Prakash, C., Cao, J., Hamza, W., McAuley, J. (2022). Instilling Type Knowledge in Language Models via Multi-Task QA. *Findings of NAACL.*

Li, S., Majumder, B., McAuley, J. (2022). Self-Supervised Bot Play for Conversational Recommendation with Rationales. *RecSys.*

Antognini, D., **Li, S.**, Faltings, B., McAuley, J. (2022). Assistive Recipe Editing through Critiquing. *arXiv Computing Research Repository preprint arXiv:2205.02454 (CoRR).*

Li, S., Cao, J., Sridhar, M., Zhu, H., Li, D., Hamza, W., McAuley, J. (2021). Zero-shot Generalization in Dialog State Tracking through Generative Question Answering. *EACL.*

Majumder, B.*, **Li, S.***, Ni, J., McAuley, J. (2020). Interview: Large-scale Modeling of Media Dialog with Discourse Patterns and Knowledge Grounding. *EMNLP.*

Mao, H., **Li, S.**, McAuley, J., Cottrell, G. (2020). Speech Recognition and Multi-Speaker Diarization of Long Conversations. *INTERSPEECH*

Majumder, B.*, <u>**Li, S.***</u>, Ni, J., McAuley, J. (2019). Generating Personalized Recipes from Historical User Preferences. *EMNLP.*

Huang, D., <u>**Li, S**</u>., Dhaka, A., Story, G.M. and Cao, Y.Q. (2012). Expression of the transient receptor potential channels TRPV1, TRPA1 and TRPM8 in mouse trigeminal primary afferent neurons innervating the dura. *Molecular Pain*, 8 (1), 66–85.

HONORS & AWARDS

Winner, Qualcomm Innovation Fellowship "Toward Personalized and Multimodal Conversational Recommender Systems"	2020-2021
Finalist, Amazon Alexa Prize SocialBot Grand Challenge 3 (UCSD Team)	2019-2020
Nominated, Two Sigma Fellowship (1 of 3 from UCSD)	2019
Departmental Fellowship (UCSD CSE)	2018-2019

INVITED TALKS

Qualcomm, on: *Personalized and Multimodal Conversational Recommendation*	Sep. 2021
Amazon, on: *Generalizable Dialog State Tracking*	Aug. 2020

MENTORSHIP & TEACHING

Masters Students

Mayank Sharan: *Probing Shilling Attacks on Recommender Systems*	2021-2022
Gautam Naik: *Coreference Resolution in Dialog Agents*	2021-2022
Yufei Li: *Personalized Text Generation for Recipes*	2019-2020

Undergraduate Students

Allen Cheung, Gaurika Duvur: *Small Molecule Recognition from HSQC Spectra*	2021-2022
Andrew Oabel: *Unsupervised Topic Clustering for News Articles*	2021

Teaching Assistant

UC San Diego CSE 158/258: *Recommender Systems & Web Mining*	2020

PROGRAM COMMITTEE & REVIEWER

ACL Rolling Review, NeurIPS, ICLR, ICML, EMNLP, NAACL-HLT, WWW, RecSys, KDD, AAAI, EACL, INLG