

Shuyang Li

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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 (*cum laude*) 2016

Major: Operations Research and Financial Engineering (ORFE)

Thesis: *Exploring Rich Features for Sentiment Analysis with Various Machine Learning Models*

SELECTED PUBLICATIONS (* indicates equal contribution)

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. *TrustNLP at NAACL*.

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., Li, Y., Ni, J., McAuley, J. (2021). SHARE: a System for Hierarchical Assistive Recipe Editing. *arXiv Computing Research Repository preprint arXiv:2105.08185 (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*.

Li, S. and McAuley, J. (2020). Recipes for Success: Data Science in the Home Kitchen. *Harvard Data Science Review*.

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

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

Huang, D., Li, S., 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

2020-2021

“Toward Personalized and Multimodal Conversational Recommender Systems”

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

RESEARCH & WORK EXPERIENCE

University of California San Diego
Graduate Student Researcher

September 2018–Present

Salesforce Research <i>Research Intern (PhD)</i>	October 2021-January 2022
Amazon, Alexa Natural Language Understanding <i>Applied Scientist Intern (PhD)</i>	June 2021-October 2021
Amazon, Alexa Natural Language Understanding <i>Applied Scientist Intern (PhD)</i>	June 2020-October 2020
Google, Kaggle Datasets (Google Cloud AI) <i>Software Engineering Intern (PhD)</i>	June 2019-September 2019
Bloomberg, Structured Products Waterfall <i>Senior Software Engineer</i>	June 2017-September 2018
Goldman Sachs, Operations Automation and Analytics Technology <i>Technology Analyst</i>	July 2016-June 2017
Goldman Sachs, Operations Analytics Strategies <i>Summer Analyst</i>	June 2015-August 2015
Princeton Laboratory for Energy Systems Analysis / CASTLE Lab <i>Summer Research Intern</i>	June 2014-August 2014

INVITED TALKS

Qualcomm, on: <i>Personalized and Multimodal Conversational Recommendation</i>	September 2021
Amazon, on: <i>Generalizable Dialog State Tracking</i>	August 2020

MENTORSHIP & TEACHING

Masters Students

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

Undergraduate Students

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

Teaching Assistant

UC San Diego CSE 158/258: <i>Recommender Systems & Web Mining</i>	Fall 2020
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PROGRAM COMMITTEE & REVIEWER

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