Shuyang Li

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EDUCATION

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

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. (2021). Self-Supervised Bot Play for Conversational Recommendation with Justifications. *arXiv Computing Research Repository preprint arXiv:2112.05197 (CoRR).*

Li, S.*, Mao, H.*, McAuley, J. (2021). Variable Bitrate Discrete Neural Representations via Causal Self-Attention. *NeurIPS Workshop on Pre-Registration in ML.*

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 — September 2018-*Present*
Graduate Student Researcher

Salesforce Research October 2021-January 2022
Research Intern (PhD)

Amazon, Alexa Natural Language Understanding June 2021-October 2021
Applied Scientist Intern (PhD)

Amazon, Alexa Natural Language Understanding June 2020-October 2020
Applied Scientist Intern (PhD)

Google, Kaggle Datasets (Google Cloud AI) June 2019-September 2019
Software Engineering Intern (PhD)

Bloomberg, Structured Products Waterfall June 2017-September 2018
Senior Software Engineer

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

Princeton University, Senior Thesis Research September 2015-May 2016
Senior Thesis Research

Goldman Sachs, Operations Analytics Strategies June 2015-August 2015
Summer Analyst

Princeton Laboratory for Energy Systems Analysis / CASTLE Lab June 2014-August 2014
Summer Research Intern

INVITED TALKS

Qualcomm, on: *Personalized and Multimodal Conversational Recommendation* September 2021
Amazon, on: *Generalizable Dialog State Tracking* August 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* Fall 2020

PROGRAM COMMITTEE & REVIEWER

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