

# Shuyang Li

shuyangli94@gmail.com ▪ [shuyangli.me](http://shuyangli.me) ▪ [github.com/shuyangli94](https://github.com/shuyangli94) ▪ (314)-660-6660  
Office #4146, 9500 Gilman Dr, San Diego, CA 92122

## EDUCATION

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

**Princeton University**, Princeton, NJ (BSE) June 2016  
Major: Operations Research and Financial Engineering GPA: 3.71  
Thesis: *Exploring Rich Features for Sentiment Analysis with Various Machine Learning Models*

## SELECTED PUBLICATIONS (\* indicates equal contribution)

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. *European Chapter of the Association for Computational Linguistics (EACL)*.

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

Li, S.\*, Majumder, B.\*, McAuley, J. (2019). Cooking Common Sense: Personalized Recipe ‘Tweak’ Inference via Common Sense Reasoning. *SoCal NLP Symposium*.

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, advised by [Dr. Julian McAuley](#)

<b>Salesforce Research</b> <i>Research Intern (PhD)</i> , with <a href="#">Sachin Ramachandran</a> , on <a href="#">Yingbo Zhou's</a> team	October 2021- <i>Present</i>
<b>Amazon, Alexa Natural Language Understanding</b> <i>Applied Scientist Intern (PhD)</i> , with Mukund Harakere Sridhar, on <a href="#">Wael Hamza's</a> team	June 2021-October 2021
<b>Amazon, Alexa Natural Language Understanding</b> <i>Applied Scientist Intern (PhD)</i> , with Jin Cao, on <a href="#">Wael Hamza's</a> team	June 2020-October 2020
<b>Google, Kaggle Datasets (Google Cloud AI)</b> <i>Software Engineering Intern (PhD)</i>	June 2019-September 2019
<b>Bloomberg, Structured Products Waterfall</b> <i>Senior Software Engineer</i>	June 2017-September 2018
<b>Goldman Sachs, Operations Automation and Analytics Technology</b> <i>Technology Analyst</i>	July 2016-June 2017
<b>Princeton University, Senior Thesis Research</b> <i>Senior Thesis Research</i> , with <a href="#">Dr. Xiaoyan Li</a>	September 2015-May 2016
<b>Goldman Sachs, Operations Analytics Strategies</b> <i>Summer Analyst</i>	June 2015-August 2015
<b>Princeton Laboratory for Energy Systems Analysis / CASTLE Lab</b> <i>Summer Research Intern</i> , with <a href="#">Dr. Warren Powell</a>	June 2014-August 2014

#### **INVITED TALKS**

Invited talk at Qualcomm about <i>Personalized and Multimodal Conversational Recommendation</i>	September 2021
Invited talk at Amazon San Diego about <i>Generalizable Dialog State Tracking</i>	August 2020

#### **PROGRAM COMMITTEE & REVIEWER**

WWW, ICLR, RecSys, EMNLP, KDD, ICML, AAAI, NeurIPS, INLG