

# Shuyang Li, Ph.D.

shuyangli94@gmail.com ▪ [shuyangli.me](https://shuyangli.me) ▪ [github.com/shuyangli94](https://github.com/shuyangli94)

## EDUCATION

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<b>University of California, San Diego</b> , San Diego, CA	MS 2021, PhD 2022
Advisor: Dr. Julian McAuley	
Area: Computer Science and Engineering, Machine Learning	
Thesis: <i>Personalizing Interactive Agents</i>	
<b>Princeton University</b> , Princeton, NJ	BSE 2016
Major: Operations Research and Financial Engineering (ORFE)	

## RESEARCH & WORK EXPERIENCE

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<b>Meta</b> <i>Research Scientist</i>	Aug. 2022 – Present
<b>University of California San Diego</b> <i>Graduate Student Researcher</i>	Sep. 2018 – June 2022
<b>Salesforce Research</b> <i>Research Intern (PhD)</i>	Oct. 2021 – Jan. 2022
<b>Amazon, Alexa Natural Language Understanding</b> <i>Applied Scientist Intern (PhD)</i>	June 2021 – Oct. 2021
<b>Amazon, Alexa Natural Language Understanding</b> <i>Applied Scientist Intern (PhD)</i>	June 2020 – Oct. 2020
<b>Google, Kaggle Datasets (Google Cloud AI)</b> <i>Software Engineering Intern (PhD)</i>	June 2019 – Sep. 2019
<b>Bloomberg, Structured Products Waterfall</b> <i>Senior Software Engineer</i>	June 2017 – Sep. 2018
<b>Goldman Sachs, Operations Automation and Analytics Technology</b> <i>Technology Analyst</i>	July 2016 – June 2017

## SELECTED PUBLICATIONS (\* indicates equal contribution)

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- Li, S., Majumder, B., McAuley, J. (2024). Self-Supervised Bot Play for Transcript-Free Conversational Critiquing with Rationales. *ACM TORS*.
- Antognini, D., Li, S., Faltings, B., McAuley, J. (2023). Assistive Recipe Editing through Critiquing. *EACL*.
- 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*.
- 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.\*, **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.

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## 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

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## INVITED TALKS

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

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## MENTORSHIP & TEACHING

### PhD Students (Interns)

Jiacheng Li: <i>Model-based Metrics and Alignment for Faithfulness and Factuality</i>	2023
Raghuveer Thirukovalluru: <i>Improving Sentence Embeddings via LLMs</i>	2023

### 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 &amp; Web Mining</i>	2020
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## PROGRAM COMMITTEE & REVIEWER

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