

Shuyang Li

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

EDUCATION

University of California, San Diego, San Diego, CA (PhD) Exp. 2023
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
Certificates: Applications of Computing; Statistics and Machine Learning
Thesis: *Exploring Rich Features for Sentiment Analysis with Various Machine Learning Models*

PUBLICATIONS

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

Majumder, B.*, **Li, S.***, Ni, J., McAuley, J. (2020). Interview: A Large-Scale Open-Source Corpus of Media Dialog. *ArXiv Preprint*

Majumder, B.*, **Li, S.***, Ni, J., McAuley, J. (2019). Generating Personalized Recipes from Historical User Preferences. *Empirical Methods in Natural Language Processing*.

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 AND AWARDS

Finalist, Qualcomm Innovation Fellowship 2020-2021
“Toward Personalized and Multimodal Conversational Recommender Systems”

Finalist, Amazon Alexa Prize SocialBot Grand Challenge 2019 (UCSD Team) 2019-2020

RESEARCH AND WORK EXPERIENCE

University of California San Diego September 2018-Present
Graduate Student Researcher

- Researching and developing models to incorporate knowledge, subjectivity, and personalization in dialogue/language modeling and generation at the intersection of NLP and recommender systems
- Researcher, architect, and lead developer for the UCSD Amazon Alexa Prize Socialbot Grand Challenge team

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

- Built a framework for automatically generating semantic tags for datasets based on free-text metadata
- Implemented metrics for dataset discoverability and search success
- Doubled size of tag ontology and tripled tag coverage across all public datasets on Kaggle.com

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

- Designed and implemented a Spark-based infrastructure for high bandwidth data processing jobs

- Modeled time series data for 2.5 million asset-backed securities (ABS)
- Designed and implemented anomaly detection for ABS data passing through ETL and analytics pipelines

Goldman Sachs, Operations Automation and Analytics Technology

July 2016-June 2017

Technology Analyst

- Helped build applications to consume, parse, & standardize market messages for fixed income instruments
- Designed & built a machine learning platform to create metrics & predictive models for Operations division

Princeton University, Senior Thesis Research

September 2015-May 2016

Senior Thesis Research

- Investigated SVMs, Naïve Bayes, and ensemble methods for binary sentiment analysis on movie reviews
- Created a manually labeled corpus from 2004 Cornell IMDB data for subjective and summary sentences

Goldman Sachs, Operations Analytics Strategies

June 2015-August 2015

Summer Analyst

- Led team working on automated invoice recognition using Tesseract and Python to process and automate template matching with noisy and tilted images containing structured and semi-structured text

Princeton Laboratory for Energy Systems Analysis / CASTLE Lab

June 2014-August 2014

Summer Research Intern

- Created simulator in Java for the unit allocation problem of introduction of wind energy to the power grid
- Analyzed the role and performance of different classes of learning rates in reinforcement learning