

Shuyang Li

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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: <i>Exploring Rich Features for Sentiment Analysis with Various Machine Learning Models</i>	

PUBLICATIONS

- 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.

RESEARCH AND WORK EXPERIENCE

University of California San Diego	September 2018-Present
<i>Graduate Student Researcher</i>	
<ul style="list-style-type: none">Researching and developing models to incorporate knowledge, subjectivity, and personalization in dialogue/language modeling and generation at the intersection of NLP and recommender systemsResearcher, architect, and lead developer for the UCSD Amazon Alexa Prize Socialbot Grand Challenge team	
Google, Kaggle Datasets (Google Cloud AI)	June 2019-September 2019
<i>Software Engineering Intern (PhD)</i>	
<ul style="list-style-type: none">Built a framework for automatically generating semantic tags for datasets based on free-text metadataImplemented metrics for dataset discoverability and search successDoubled size of tag ontology and tripled tag coverage across all public datasets on Kaggle.com	
Bloomberg, Structured Products Waterfall	June 2017-September 2018
<i>Senior Software Engineer</i>	
<ul style="list-style-type: none">Designed and implemented a Spark-based infrastructure for high bandwidth data processing jobsModeled 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
<i>Technology Analyst</i>	
<ul style="list-style-type: none">Helped build applications to consume, parse, & standardize market messages for fixed income instrumentsDesigned & built a machine learning platform to create metrics & predictive models for Operations division	
Princeton University, Senior Thesis Research	September 2015-May 2016
<i>Senior Thesis Research</i>	
<ul style="list-style-type: none">Investigated SVMs, Naïve Bayes, and ensemble methods for binary sentiment analysis on movie reviewsCreated 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

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