

Yang Yang, Ph.D.

9500 Gilman Drive, La Jolla, CA 92093 (313)327-9512 hit.youngyang@gmail.com [linkedin.com/in/young-yang](https://www.linkedin.com/in/young-yang)

SUMMARY

- Ph.D. with 5+ years of experience of research on decision-making in a technology-driven society
- Proficient in Python, R, Java, Database (SQL, Apache SOLR), Web (JavaScript, Django), cloud platforms (AWS), Docker
- Extensive experience with various NLP tasks (topic modeling, named entity recognition, keyword extraction, sentiment analysis, etc.) on English and Chinese corpus, machine learning & deep learning models (Random Forest, RNN, LSTM, Transformer, BERT, etc.) and tools (Scikit-learn, NLTK, PyTorch, H2O.ai, etc.)
- Strong in modeling, self-learning, prototyping ideas/solutions, implementing advanced technologies and communicating

WORK EXPERIENCE

University of California San Diego

San Diego, CA USA

➤ Machine Learning Engineer (NLP) for Multiple Research Projects

09/2017 – Present

- Developed an LSTM based [tracker](#) that automatically analyzes the sentiment towards foreign countries in congressmen's tweets.
- Developed a [sentence auto-complete app](#) that compares political rhetoric variations between AIs trained by different corpus.
- Trained a GBM that improved the accuracy of ethnicities predictions of 187 nations by 32% when compared to based classifier.

➤ Research Scientist of a Corpus-based Approach to Understand Policy Diffusion in China

09/2017 – Present

- Pioneered a corpus-based framework to analyze the Chinese policy diffusion process. This framework is an innovation of extracting policy orientation in different policy diffusion stage by combining NLP methods and time series analysis.
- Researched institutional & social factors in the Chinese policymaking context using the diffusion analysis framework.

➤ Full Stack Software Developer for the China Data Lab

09/2017 – Present

- Developed a news analytics platform that supports interactive topic spotting, tracing and analyzing of 7 million+ news articles. Reduced the search latency by 80% using text specific search DB (SOLR), and increased ACU 5 times using Play framework.
- Produced reliable [data insights](#) using various visualization tools (Shiny, D3, etc.), work was cited by popular [media](#).
- Designed the data pipeline (from data scraping) of 200,000+ policy records and the PostgreSQL data storage, which enables researchers in the 21st Century China Center at UC San Diego to perform fast and efficient search on Chinese policy documents.

Yale University

New Haven, CT USA

➤ Chief Research Scientist of a [Smart Health System Evaluation Project](#)

09/2016 – 08/2017

- Studied patients' health-seeking behavior change after hospital adopting a smart health system, using 4 million medical records.
- Coordinated a group of 5 researchers to produce evaluation reports and proposed process redesign suggestions to the hospital.
- Was invited to give a talk on this research at the 2017 iHEA world congress, a top conference in health economics.

Zhejiang University

Hangzhou, China

➤ Research Assistant

09/2012 – 07/2016

- Extracted decision pattern of taxi drivers' client searching and continuous working from 29 million trip trajectories.
- Tested relationship between sharing economy platform (DiDi) use and supply-side behavior change using a Diff-in-Diff test.
- Provided suggestions of driver incentives strategy to the platform and suggestions of industrial policy to the government.
- Lead agile research groups of 5-10 members to accomplish multiple national-award winning research projects (including Taobao/Tmall inter-provincial trade analysis, Weibo use in public service, cloud computing impacts on enterprises).
- Research conclusions were adopted by various corporations and won two provincial awards, one national award.

EDUCATION

Zhejiang University

Hangzhou, China

Ph.D., Management Science and Engineering

09/2011 – 06/2016

Thesis: Impacts of Taxi Hailing App on Taxi Drivers' behavioral Decision and Operation Performance

Harbin Institute of Technology, rank 1/50

Harbin, China

B.S. with Honors, Information Management and Information Systems

09/2007 – 06/2011