

LIANG SHI

11 WAVERLY PLACE, 9A • NEW YORK, NY United States 10003 • (347)803-0961 • ls4081@nyu.edu

EDUCATION

New York University New York, NY 9/2015 - 5/2019

Bachelor of Arts in Mathematics, Economics, Minor in Computer Science GPA: 3.68/4.00

- Online Courses for Professional Development: Machine Learning Fundamentals, Programming with Python for Data Science, Natural Language Processing, Deep Learning with TensorFlow

RELEVANT WORK EXPERIENCE

Research Intern, UCLA Institute for Pure and Applied Mathematics Los Angeles, CA 6/2018 - 8/2018

- Designed and implemented a 9-module web crawling and computational fact-checking framework
- Utilized natural language processing algorithms ("TF-IDF", "Word2Vec" and "Doc2Vec") to classify 168,000+ documents based on relevance to the search queries
- Scaled up analysts' ability to retrieve information by automating part of the manual search process

Research Assistant(Prof. Kaan Ozbay), NYU Center for Data Science New York, NY 9/2017 - 12/2017

- Performed data wrangling in Python on 14 vehicle sensor datasets for transportation safety analysis
- Performed data visualization with QGIS on 23,000+ geolocation data points
- Utilized unsupervised learning algorithms ("K-Means") to cluster bad road surfaces

Data Analytics Intern, Shanghai Pharmaceuticals Shanghai, China 5/2017 - 7/2017

- Analyzed clinical trial big data, performed data visualization in Python and Excel, and designed a questionnaire based on analytical findings for breast cancer self-diagnosis
- Improved the efficiency of SQL queries and reduced Hive database system operation time by 30%

DATA SCIENCE & MATHEMATICAL MODELING PROJECTS

Using Data Analytics to Fight and Understand Cancer, DataKind	12/2018
Information Aggregation for Fitfinder - a Fitness Platform, NYU Stern School of Business	11/2018
Web Information Extraction and Computational Fact-checking, UCLA IPAM	8/2018
Cluster Analysis for Walmart Trip Type Classification, NYU Center for Data Science	11/2017
Bad Road Surface Detection For Transportation Safety, NYU Center for Data Science	10/2017
Monte Carlo Model of Uber Dynamic Pricing System, Harvard Summer REU	8/2017
Shortest Path Model of Airbnb Cost Minimization Strategies, Harvard Summer REU	7/2017

CONFERENCE PRESENTATIONS

"Information Extraction, Classification and Computational Fact-checking From Unstructured Web Data," supervised by Professor Dima Shlyakhtenko, presented at Joint Mathematics Meetings, Baltimore, MD, Jan 16, 2019

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LEADERSHIP AND VOLUNTEER EXPERIENCE

Volunteer, DataKind 9/2018 - Present

- Developed a data analytics product for Manhattan Medical Research addressing public health issues

Project Manager, UCLA Research in Industrial Projects for Students 6/2018 - 8/2018

- Responsible for a project's design and implementation while keeping a team of 3 people focused on project deliverables
- Wrote a 90-page final report as the first author and presented the project to 200+ audience at UCLA

Volunteer Math Coach, Let's Get Ready 6/2016 - 8/2016

- Responsible for the academic and emotional development of 15 minority high school students
- Developed and delivered eight 2-hour class sessions on SAT Math followed by a 1-hour college application and essay workshop

GRANTS AND AWARDS

Dean's Undergraduate Research Fund, New York University Fall 2018

- Received research fund for an independent study research project on "Natural Language Processing for Cancer Clinical Trial Notes Classification"

Recognition Award for Project Manager, Praedicat, Inc. Summer 2018

- Received recognition award for leading a research team to scale up the company's ability to deliver quality data for use in mathematical and microsimulation models

Dean's Honors List, New York University Spring 2018

- Placed on the Dean's Honors List for achieving an average of above 3.65 GPA over an academic year

Dean's Undergraduate Research Fund, New York University Fall 2017

- Received research fund for an independent study research project on "Cluster Analysis for Walmart Trip Type Classification"

TECHNICAL SKILLS

Languages: Python, Java, R, SQL, noSQL, HTML/CSS, MATLAB

Practical Skills: Data Sourcing/Web Scraping, Data Visualization, Machine Learning, Natural Language Processing/Text Analysis, Web Programming and Design, Relational Database

REFERENCES

Dima Shlyakhtenko, Ph.D

Program Director

Institute for Pure and Applied Mathematics

University of California, Los Angeles

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Los Angeles, CA 90095

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