

Joshua Chen

LinkedIn: /in/chenjoshua7 | GitHub: /chenjoshua7 | Brooklyn, New York | chen.joshua98@gmail.com

With a strong background in mathematics and economics - including high level coursework in Statistics and Econometrics - I am pursuing a M.Sc in Data Science Methodology to round out my problem solving skill set. I am particularly passionate about Statistical Inference and Methods as well as Machine/Deep Learning. I am for challenging environments to continue to expanding my data science toolkit and growing my statistical knowledge. Chess nerd, Lakers fan, Volleyball coach.

Education

Barcelona School of Economics 2023 - 2024

M.Sc. in Data Science Methodology

Thesis: Convolutional Nerual Netowrks and Visual Transformers on Classification of Geospatial Data

Selected Courses: Statistical Modeling and Inference, Machine Learning, Deep Learning, Advanced-Natural Language Processing, Causal Inference, Reinforcement Learning

Boston College 2016 - 2020

Morrissey College of Arts and Sciences Honors Program, Dean's List First Honors

B.A. in Mathematics, Minor in Economics

Selected Courses: Econometrics (Doctorate Level), Mathematical Modelling, Statistics, Probability

Skills

Programming:

- Python (Scikit-Learn, Pandas, Numpy, Pytorch, TensorFlow)
- R (ggplot2, dplyr)
- SQL (Postgres)
- LaTeX

Data Science:

- Machine/Deep Learning
- Bayesian Statistics
- Statistical Inference
- Optimization
- NLP

Chosen Projects:

- Multiple Regression Techniques for Multiclassification of Geospatial Data
- Network Analysis of Recommendation System Algorithms
- Interpreting Convolutional Neural Networks

Work Experience

World Bank - Development Impact (DIME) 2024 - 2024

Research Intern

- Support in data treatment, analysis, and presentation for diverse data sources
- Specific project to be determined.

Uncommon Preparatory Charter High School

11th Grade Team Lead

2022 - 2023

- Manage a team of 10 teachers and counselors and a grade of 117 students.
- Assisted staff and students in meeting expectations through individual/group intervention
- Maintain the 11th Grade budget and plan quarterly grade team events.

Lead Mathematics Instructor

2020 - 2023

- Create daily lesson materials for over 110 high school students.
- Improved performance of Algebra 2 assessments over the 2020-21 school year by 15%.
- Founding coach of the boys' volleyball team, additionally taught violin/piano/chess

Other

Relay Graduate School of Education - M.A. of Teaching - Secondary Mathematics 2020 - 2022

Big Brothers Big Sisters of Massachusetts Bay - Mentor 2017 - Present

Languages - English (Native), Chinese (Intermediate)