

Diana Li

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EDUCATION

Northeastern University, Ph.D. in Applied Economics

Industrial Organization, Labor | Advised by James Dana, Imke Reimers, Mindy Marks

Expected June 2025

GPA: 3.96/4.0

University of Delaware, B.S. in Mathematics and Economics

Minors in Computer Science

June 2019

GPA: 3.82/4.0

Relevant Coursework: Object Oriented Programming, Data Structure, Numerical Methods, Probability Theory and Statistical Methods, Partial Differential Equation, Fundamentals of Optimization

SELECTED DISSERTATION RESEARCH

Welfare Analysis on Nutrition Subsidy Program: The Case of WIC in Infant Formula Market

- Methods: Structural estimation (discrete choice model)
- Findings: The efficiency of the WIC program can be improved by adapting multi-source contracts for infant formula

Price and Welfare Effects of the Alaska / Virgin Airline Merger

- Methods: Causal inference (diff-in-diff)
- Findings: Price increase on both direct competing routes, and routes with potential entry threat by the other firm

Bride Price as a Consumption Smoothing Method: The Study of Indonesia Households

- Methods: Causal inference
- Findings: Households use the bride price from daughter's marriage to smooth consumption

RESEARCH & WORK EXPERIENCE

Research Assistant

July 2021 – December 2021

Northeastern University, Boston, MA

- Replicated the latest econometric models using STATA, R and Matlab to enhance analytical accuracy
- Processed survey data for development research using Geographic Information System (GIS)
- Visualized 80 quarters of airline industry data by producing tables and plots using STATA and Python

Semester Project

February 2019- June 2019

Math Techniques in Data Science, University of Delaware, Newark, DE

- Performed regression, clustering, XGBoost, and neural network algorithms using Python to make predictions on graduate school admission rate and relevant characteristics
- Achieved 96% prediction accuracy using a dataset of 500 observations

Capstone Project

July 2022 – August 2022

Data Science for All

- Led a team of 6 members, created a detailed 6-week project plan and assigned deliverables
- Conducted exploratory data analysis using Python, and translated findings into impactful visualizations
- Used causal inference models and predictive techniques to analyze travels and the spray of infectious disease

LEADERSHIP EXPERIENCE

Program Assistant – Dialogue of Civilization: Economic Development in Rwanda

July 2023 – August 2023

Kigali, Rwanda

- Delivered lecture and provided guidance to on-site case study projects for 12 students in Rwanda by coordinating site visits, arranging meetings with local organizations, and fostering meaningful connections with the local community
- Prepared students for professional interactions by assisting their presentation in front of foreign officials

Teaching Assistant

September 2019 – Present

Northeastern University, Boston, MA

- Taught 2 weekly recitation sections for Microeconomic, Econometrics and Development Economics
- Led a team of 4 graduate teaching assistants. Conducted regular teaching strategy meetings

SKILLS & CERTIFICATES

Languages: Fluent in English and Mandarin; Conversational Proficiency in Spanish

Technical Skills: STATA, Python, LaTeX, R, Matlab, JAVA, C++, SQL