

FREDERICK LEI

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EDUCATION

New York University

M.A. Economics, GPA: 4.0/4.0

New York, NY

Sep 2024 - May 2026

New York University

B.A. Economics and Mathematics, GPA: 3.94/4.0

magna cum laude, University Honors Scholar, Phi Beta Kappa

New York, NY

Sep 2021 - May 2025

EXPERIENCE

Biostatistical Collaboration and Consultation Core (BC3) at NYU

Statistical Fellow

New York, NY

May 2025 - Aug 2025

- Served as the head collaborative statistician for ongoing NSF-funded public health and social science research projects, including developing comprehensive Statistical Analysis Plans, producing testable research questions and hypotheses, and advising on model specifications.
- Held regular meetings with principal investigators throughout the consultation process to review data strategy. Assisted clients in working with large raw datasets, and executed regressions and other statistical inferences as aligned with study objectives.

NYU School of Global Public Health

Research Assistant

New York, NY

Feb 2025 - Aug 2025

- Aggregated and cleaned large public health datasets, and implemented panel regression (FEOLS, GLM) and ARDL models in R to study the associations between naloxone distribution programs, drug supply composition, and opioid overdose deaths. Contributed empirical findings towards a collaborative research effort between NYU GPH and the White House ONDCP.
- Presented biweekly reports on research findings to a panel of federal drug officials and statisticians. Provided policy interpretations of model outputs in support of federal briefings on national drug policy.

PUBLICATIONS (IN PROGRESS)

A. Dahlen, **F. Lei**, K. Agyabeng, et al. (2026). “[Proportion of Fentanyl Reports in Illicit Drug Seizures and Opioid Mortality](#)”. *JAMA Health Forum*, 7(1), e256286.

“Disparities in Colorectal Cancer Screening Rates” (PI: Cameron Adams, NYU Langone), Status: Preparing Manuscript.

“Sexual Selection of the Drill Monkey” (with John Koo (NYU BC3), PI: Jessica Gunson, NYU GSAS), Status: Preparing Manuscript.

PROJECTS

Transmission of Human Capital from Advisor to Advisee

Dec 2025

[Developed](#) a word2vec-type embedding model using citation and co-authorship data to construct a citation network of academic economists. Used this model to assess whether network characteristics have a significant effect on the professional outcomes of advisees.

An Econometric Approach to Valuation

May 2025

[Designed](#) and implemented a dynamic panel GMM model (Arellano-Bond) in R to estimate empirical persistence in valuation ratios, examining results in the context of financial asset pricing and market efficiency.

No Child Left Behind: Impact of COVID-19 on Econ. Disadvantaged Students

Dec 2024

[Applied](#) difference-in-differences (DiD) methods to NYC public school data to estimate the difference in pandemic-related learning losses between low-income and non-low-income students.

Transit Traps: Multiple Equilibria in a Density-Transit Model

May 2024

[Constructed](#) a differential equations model of density and associated urban rapid transit development in MatLab, and analyzed path dependency in the context of public transit policy recommendations.

SKILLS

Technologies: R, MatLab, STATA, Excel, Python, Java, Julia, L^AT_EX.

Languages: English (Native), Mandarin Chinese (Conversational).

Service: [Chinese Mei Society](#) at NYU - President (2024-2025), Events Director (2022-2024).

Personal Interests: Playing Guitar, Biking, Music Transcription and Theory, Solo Travel.

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