Daniel C. Posmik

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EDUCATION

Ph.D.	Biostatistics, Brown University	*Exp.* 2029
GSAL	Graduate Student at Large (Statistics), University of Chicago	2024
B.S.	Economics and Data Science, Mathematics Minor, University of Cincinnati	2022
A.A.	Business Administration, University of Cincinnati, Blue Ash College	2020

PUBLICATIONS

2022   Posmik, D.C. "Predicting International Student Enrollment by Institutional Aid: A Random and Fixed Effects Approach." *Journal of Student Financial Aid*, 51 (3), Article 4.

RESEARCH EXPERIENCE

2023–24   University of Chicago, Chicago, IL
Graduate Research Assistant, Department of Comparative Human Development, 2024
Supported Professor Guanglei Hong's research on causal decomposition and mediation analysis.

- Assessed instrumental variables (IV) approaches in sequential and multi-site treatment settings
- Applied compliance score weighting to estimate local average treatment regime effects via IV
- Explored Bayesian identification, specifically treatment re-randomization via cumulative priors

Project Associate, UChicago Energy & Environment Lab, 2023
Supported the E&E Lab's portfolio at the intersection of causal inference and machine learning.

- Coordinated an RCT on the effect of agricultural machinery on illegal burning of crop residue
- Applied PCA to high-dimensional remote sensing data to construct a burn index for analysis
- Implemented a random forest algorithm to predict firm-level environmental violations

PRESENTATIONS & TALKS

Scholarly Presentations

2022   Posmik, D.C. "Predicting International Student Enrollment by Institutional Aid: A Random and Fixed Effects Approach", Economics Scholars Conference at the Federal Reserve Bank, Cleveland, OH, May 2.

2021   Posmik, D.C. —"—, University of Cincinnati Undergraduate Capstone Competition, Cincinnati, OH, April 28.

Talks

2021   Posmik, D.C. "Telling Stories with Data", TEDxUCincinnati, Cincinnati, OH, Mar 23.

GRANTS AND AWARDS

Awards and Honors

2024	McCall MacBain Finalist Award (Deferred for Ph.D.) (80 out of 1,000+ applicants)
2022	Presidential Leadership Medal of Excellence (4 yearly recipients; university-wide)
2022	Non-Traditional Student of the Year (1 yearly recipient; college-wide)
2021	Annie Fitzgerald Community Service Award (2 yearly recipients; university-wide)

Competitive Grants and Fellowships

2023	Community Data Fellowship, University of Chicago Data Science Institute ($4,000)

PROFESSIONAL SERVICE

Academic Journal Peer Review

2022	*Journal of Student Financial Aid*

TEACHING

2024   University of Chicago, Department of Economics, Chicago, IL
Teaching Assistant, Econometrics (ECON21020), Spring 2024
- Hosted weekly discussion sections and held office hours for 40 students
- Graded assignments and exams; responded to student questions in timely manner

INDUSTRY EXPERIENCE

2024   The Brattle Group, Boston, MA
Research Analyst, Electricity Practice Group
Supported Brattle's Electricity Group in wholesale and retail energy matters
- Analyzed energy congestion patterns to inform a utility company's $10m transmission investment
- Developed a cost-benefit model for bus fleet electrification in light of the Inflation Reduction Act

COMMUNITY SERVICE

2023   University of Chicago, Chicago, IL
Community Data Fellow, UChicago Data Science Institute
Created a dashboard for the State of Illinois' Commission on Equity & Inclusion.
- Visualized and summarized spatio-temporal impact data from the *Business Enterprise Program*
- Embedded dashboard on website and maintained communication with project stakeholders

2020–22   The Neo Initiative, Cincinnati, OH
Founder and President
Founded a student-led data analytics accelerator for minority-owned small businesses in the U.S.
- Served 15 black-owned small businesses with pro-bono consulting services in data analytics
- Coordinated 6 executive officers, 5 project leads, 5 mentors, and 30 analysts each semester
- Hosted a virtual state-sponsored data literacy series, reaching 300+ minority-owned businesses

SKILLS

Programming

R, Python, LaTeX, Lua, Tableau, Git

Languages

English (Fluent), German (Native), French (Advanced), Latin (Intermediate)

Updated April 2024