Malik Salman

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EDUCATION

New York University, Tandon School of Engineering — New York, NY
*MSE Urban Data Science***,** GPA: 3.9/4.0 — *May 2025*

- Courses: Causal Inference, Applied Data Science, Machine Learning for Cities, GIS, Disaster Risk Analysis

University of Michigan, College of LSA — Ann Arbor, MI
*BS Interdisciplinary Physics***,** GPA: 3.5/4.0 — *May 2023*

- Courses: Urban Planning, Quantum Mechanics, Linear Algebra, Differential Equations, Modern Physics
- Exchange Program: National University of Singapore

PROFESSIONAL EXPERIENCE

Center for Urban Science and Progress, New York University — New York, NY
Assistant Research Scientist — Resilient Urban Networks Lab — *May 2024 – Jul 2025*

- Designed and implemented causal inference models (difference-in-differences with propensity score matching, synthetic control) to evaluate urban infrastructure impacts, including NYC's protected bike lanes — directly informing policy recommendations.
- Led the execution of a research project assessing the causal (difference-in-differences with spatial spillover) economic impact of the U.S. Open on Queens' local business visitation using large-scale mobility data.

University of Michigan Museum of Natural History — Ann Arbor, MI
Program Instructor — *May 2023 – Aug 2023*

- Coordinated with scientists, researchers, and museum staff to develop and deliver modules across a multitude of STEM subjects.
- Oversaw program logistics and student engagement to ensure the successful execution of interactive educational sessions.

Global Scholars Program, University of Michigan — Ann Arbor, MI
Assistant Instructor — *Sep 2021 – Apr 2023*

- Mentored a team of eight students on a consulting project with ALPHA Education, ensuring deliverables met client expectations.
- Facilitated training workshops on DEI, intercultural communication, dialogue, and conflict resolution.

Taubman College of Architecture and Urban Planning, University of Michigan — Ann Arbor, MI
Research Assistant — *Jan 2021 – Jun 2021*

- Reviewed NLP literature and model performance to inform a feasibility analysis for a natural language processing framework to analyze the relationship between linguistic shifts and urban demographic changes.
- Produced a literature review, managing project scope, methodology selection, and data processing pipelines.

PROJECTS

Causal Impacts of Protected Bike Lanes on Cycling Behavior with Demographic Disparities — *Sep 2024 – Jul 2025*

- Produced this research in collaboration with Takahiro Yabe (PhD) and Marcel Moran (PhD) — the manuscript has been submitted to, and is under review at, npj Sustainable Mobility and Transport, a part of the Nature portfolio.

Urban Data Science Capstone — *Sep 2024 – May 2025*

- Led a consulting project with transit nonprofit QueensLink to evaluate the impact of reactivating a dormant rail corridor on ridership, developing narratives for how route variations will affect NYC communities and the system as a whole.

SKILLS

Technical: Python, Data Science, Causal Inference, Machine Learning, Quantitative Modeling, ArcGIS Pro, C++, Mathematics

Consulting: Problem Structuring, Project Management, Stakeholder Communication, Data Storytelling, Policy & Economic Analysis

Languages: English (native)**,** German (native)