

EXPERIENCE

<b>Negev Urban Research (MIT City Science Lab)</b> <i>Geospatial Data Scientist</i>	Beer Sheva, Israel July 2024 – Present
<ul style="list-style-type: none"><li>Developing urban simulation models in Python to optimize infrastructure planning for 50,000+ users of the Beer Sheva Innovation District that leverage Hugging Face AI models to predict mobility patterns</li><li>Implemented an ETL pipeline in Python for urban mobility data, performing advanced geospatial analytics to cluster travel patterns, calculate catchment areas, and generate synthetic trip routes</li><li>Engineered a web-based geospatial analytics platform using JavaScript (React, deck.gl) and HTML/CSS to create interactive 3D visualizations of mobility patterns, enabling data-driven planning decisions</li></ul>	
<b>Hebrew University of Jerusalem</b> <i>Teacher Assistant</i>	Jerusalem, Israel October 2024 – Present
<i>Research Scientist</i>	January 2024 – July 2024
<ul style="list-style-type: none"><li>Taught spatial statistics exercises to MA students in the Smart Cities &amp; Urban Informatics program</li><li>Built an ETL pipeline and designed supervised learning models for geospatial, physiological, and digital usage data for studies conducted in the Urban Vitality Laboratory</li><li>Lead-authored and co-authored two research papers on interactions between health and smart city environments that are currently under peer review</li></ul>	
<b>Polymath Jr. (National Science Foundation REU)</b> <i>Machine Learning Undergraduate Research Assistant</i>	Remote June – August 2022
<ul style="list-style-type: none"><li>Coauthored paper “A generative flow for conditional sampling via optimal transport” presented at NeurIPS 2023, focusing on optimal transport methods for probability density mapping</li><li>Built an Input Convex Neural Network from scratch with PyTorch using a custom loss function to find optimal maps between sample distributions</li></ul>	
<b>New York City Mayor’s Office of Workforce Development</b> <i>Communications and Data Analysis Intern</i>	New York, NY September 2021– May 2022
<ul style="list-style-type: none"><li>Analyzed workforce development spending data to ensure compliance with federal and state regulators</li><li>Conducted and analyzed policy surveys of key stakeholders to inform municipal spending decisions</li><li>Managed a cross-departmental project to create a 4-year fiscal plan for over \$300 million of federal funds</li></ul>	

EDUCATION

<b>Master of Arts in Urban Informatics</b>	Grade: 96/100
Hebrew University of Jerusalem   Rothberg International School   Fulbright Scholar	
<b>Bachelor of Science in Mathematics</b>	Grade: 3.98/4.0
Macaulay Honors College at Baruch College (CUNY)	
<b>Awards:</b> Fulbright Israel Master’s Degree Fellowship, Summa Cum Laude, Macaulay Provost Award, National Collegiate Honors Council Portz Fellowship, Macaulay Honors Scholarship	

COMPUTER SKILLS

<i>Programming Languages:</i> Python, JavaScript, SQL, CSS/HTML
<i>Software:</i> ArcGIS Pro, Docker, Git, Jiro, Microsoft Office Suite, PostgreSQL, PostGIS, QGIS
<i>Technical Knowledge:</i> Agile Development, Data Visualization, ETL Pipelines, Machine Learning, Probability/Statistics, Remote Sensing, Spatial Analytics, Version Control