John Michael Holopainen Hadaway
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Selected experience

MIT Senseable City Lab **Dubai, UAE**
Visiting Student September 2024 - February 2025
◇ Researched the relationship between urban form and the environmental impacts of food delivery for my master's thesis (Python: e.g., GeoPandas, PySAL, networkx, Folium).

Finnish Geospatial Research Institute (FGI) **Helsinki, FI**
Assistant Research Scientist (Trainee) June 2024 - September 2024
◇ Worked on the frontend of a prototype (TypeScript: Angular, OpenLayers) of a planning tool for scaling drone operations in Baltic cities (CITYAM).
◇ Developed server-side geospatial analysis scripts (Python: e.g., GeoPandas, Rasterio; Docker).

SPIN Unit **Helsinki, FI**
Spatial Data Analyst May 2021 - April 2024
Research Assistant March 2019 - May 2021
◇ Conducted geospatial data analysis and automated workflows (Python: e.g., PySAL, GeoPandas, networkx; QGIS; GeoDA; Google Compute Engine).
◇ Consulted municipal and ministry clients with reports, presentations, and interactive data visualisations (JavaScript: React, Mapbox GL JS, D3; HTML; CSS).

Design Museum & Museum of Finnish Architecture **Helsinki, FI**
Civil Service / Siviilipalvelus September 2022 - August 2023
◇ Integrated data systems for two merging museums, enabling automated KPI reporting using the Microsoft Power Platform (Power BI).

The University of Chicago, Department of Sociology **Chicago, US**
College Research Fellow January 2018 - May 2021
◇ Analysed and visualised data (Python: Pandas, NumPy, Matplotlib) for Professor Marco Garrido's research on the illiberal turn in cities in the Global South.

Community Programs Accelerator **Chicago, US**
Data Team, Project Consultant October 2017 - October 2018
◇ Analysed and visualised data (Python: Pandas, NumPy, Matplotlib; Tableau) as part of non-profit consulting engagements, recommending data-driven strategies.

Ernst & Young **Manila, PH**
Summer Business Analyst June 2017 - August 2017
◇ Completed the EY Core Consulting program and wrote an R-based implementation of Otsu's method to extract building height information from satellite images.

Education

University of Helsinki & Aalto University September 2023 - June 2025
Master of Social Sciences, Urban Studies and Planning. GPA 5.0/5.0.

Massachusetts Institute of Technology (MIT) September 2024 - February 2025
Visiting Student, Department of Urban Studies and Planning.

The University of Chicago September 2016 - June 2021
Bachelor of Arts, History. Major GPA: 3.97/4.0.

Skills

Skill areas: Data analysis, interactive data visualisation, GIS, research.
Programming languages and technologies: Python (e.g., NumPy, Pandas, GeoPandas, PySAL), R, SQL (PostGIS), JS (e.g., React, D3, Mapbox GL JS), TS (Angular), HTML, CSS, Docker.
Software: GeoDA, QGIS, Tableau, Power BI, Rhinoceros3D, Adobe Creative Suite, Figma.