John Michael Holopainen Hadaway

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Selected experience	

MIT Senseable City Lab — **Dubai, UAE**
Visiting Student — September 2024 - February 2025
⬦ Pursuing research on transportation systems, decarbonisation, and on-demand food delivery services as part of my master's thesis and supporting the lab's ongoing projects.

Finnish Geospatial Research Institute (FGI) — **Helsinki, FI**
Assistant Research Scientist (Trainee) — June 2024 - September 2024
⬦ Developed the frontend of a prototype (TS - Angular, OpenLayers, HSLayers) for a tool designed to help planners scale drone operations in Baltic cities, as part of the EU-funded CITYAM project.
⬦ Built a server-side multi-criteria weighted-overlay analysis script (Python - Geopandas, Rasterio, Shapely; Docker; GeoServer), integrating it with the frontend.

SPIN Unit — **Helsinki, FI**
Spatial Data Analyst — May 2021 - April 2024
Research Assistant — March 2019 - May 2021
⬦ Conducted geospatial data analysis and visualisation (Python - e.g., PySAL, Geopandas, igraph; GeoDa; QGIS) and automated recurring processes, incorporating parallelisation for computationally-intensive tasks requiring cloud resources (Google CE).
⬦ Consulted with municipal and ministry clients, justifying recommendations through reports, presentations, and data visualisation (JS - React, Mapbox GL JS; HTML; CSS).

Design Museum & Museum of Finnish Architecture — **Helsinki, FI**
Civil Service / Siviilipalvelus — September 2022 - August 2023
⬦ Executed a pilot project integrating the data architectures of the two merging museums, making daily reporting of KPIs possible (MS Power Platform).

The University of Chicago, Department of Sociology — **Chicago, US**
College Research Fellow — January 2018 - May 2021
⬦ Analysed and visualised data (Python - Numpy, Pandas, Matplotlib; R) 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 — January 2018 - May 2021
⬦ 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: Proficient in Python, R, SQL, JS, TS, HTML, and CSS.
Software: Proficient with GeoDA, QGIS, Tableau, Power BI, and Rhinoceros3D. Familiar with Figma, the Adobe Creative Suite (Illustrator, InDesign, Premiere), and AutoCAD.