John Michael Holopainen Hadaway
john@johnhadaway.com LinkedIn GitHub Website

Selected experience

MIT Senseable City Lab **Dubai, UAE**
Visiting Student September 2024 - February 2025
◇ Conducted research on decarbonisation, on-demand food delivery services, and mobility as part of my master's thesis

Finnish Geospatial Research Institute (FGI) **Helsinki, FI**
Assistant Research Scientist (Trainee) June 2024 - September 2024
◇ Developed the frontend of a prototype (TypeScript, Angular, OpenLayers) of a planning tool for scaling drone operations in Baltic cities (CITYAM project)
◇ Built server-side geospatial analysis scripts (Python: GeoPandas, Rasterio, Docker) and integrated them with GeoServer and the frontend

SPIN Unit **Helsinki, FI**
Spatial Data Analyst May 2021 - April 2024
Research Assistant March 2019 - May 2021
◇ Conducted geospatial data analysis (Python: e.g., PySAL, GeoPandas, igraph; QGIS, GeoDA) and automated workflows (Google Compute Engine)
◇ Consulted municipal and ministry clients with reports, presentations, and interactive data visualizations (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 (e.g., Power BI, Power Apps).

The University of Chicago, Department of Sociology **Chicago, US**
College Research Fellow January 2018 - May 2021
◇ Analyzed and visualized 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 January 2018 - May 2021
◇ Analyzed and visualized 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