

THOMAS STATHAM

📍 Bristol, England

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RELATED EXPERIENCE

Geospatial data scientist

Allianz Commercial

📅 Jan 2023–present

📍 Guildford/remote

I have worked on complex geospatial problems ranging from generating novel geospatial datasets for evaluating risk accumulation at different spatial scales, to solving optimal routing problems.

Geospatial specialist

WSP

📅 Oct 2018 - Oct 2019

📍 Bristol

In this consultancy role I worked alongside multiple teams on several large scale civil engineering projects, which included providing exploratory data analysis, visualisations and spatial analysis at scale.

PROJECTS

Open source contributor

GeoPandas/Google Summer of Code

📅 Jun–Sep 2021

📍 remote

I added several spatial partitioning methods to repartition **Dask-GeoPandas** **GeoDataFrames** geographically.

Data study group

Greenvest Solutions/Alan Turing Institute

📅 Sep–Oct 2020

📍 remote

I used historical satellite data and a spatial machine learning models to forecast the speeds and direction of wind energy production without the need for expensive ground-based sensors.

Bristol Solar Project

Bristol City Council

📅 Nov 2018 - Mar 2019

📍 Bristol

I measured the potential of solar energy for all rooftops in the local authority of Bristol using open source tools and open data.

Virgin Media

Consumer Data Research Centre

📅 Jun 2018 - Oct 2018

📍 Liverpool

I applied a spatio-temporal model to enhance the spatial granularity and accuracy of forecasting broadband faults for a large broadband provider using the Integrated Nested Laplace Approximation framework.

EDUCATION

PhD in Advanced Quantitative Methods

University of Bristol

📅 Oct 2019 - Dec 2022

MSc in Geographic Data Science

University of Liverpool

📅 Sept 2017 - Oct 2018

BSc in Geography

Loughborough University

📅 Sept 2013 - June 2017

AWARDS

Enrichment scheme

Alan Turing Institute

📅 2021–2022

Research grant - Seed Corn Funding

Jean Goulding institute

📅 2020–2021

Masters Research Dissertation Prize (runner up)

Consumer Data Research Centre

📅 2018

GISc Master's Dissertation Prize

Quantitative Methods Research Group

📅 2018

GEOSPATIAL TOOLS

Python (Dask-GeoPandas, Pysal, Rioxarray, scikit-learn etc), R, QGIS, postGIS, Software development (Docker, kubernetes, git, unit testing) etc and Cloud (Azure).

PUBLICATIONS

Google Scholar