Tom Cantellow

tcantellow@gmail.com | LinkedIn | Website | Portfolio

EDUCATION

University of Bristol Bristol, UK
PhD in Human Geography

Oct. 2020 - Nov. 2024

University of Sheffield
Sheffield

MSc, Distinction, in Applied GIS

Sep. 2017 – Sep. 2018

Awards: Sheffield Postgraduate Scholarship; Ian Masser Prize for best dissertation

University of Lincoln Lincoln, UK

BA (Hons), 2:1, in International Relations

Sep. 2012 – May 2016

Ghent University

Ghent, Belgium

Erasmus Programme Sep. 2014 – Feb. 2015

EXPERIENCE

Senior Scientific Officer - R&D Fellow

Aug. 2025 – Present

Department for Environment, Food & Rural Affairs

Newcastle, UK

Teacher Oct. 2020 – May 2025

University of Bristol

Bristol, UK

- Designed & led lectures for <u>Understanding Global Problems Using Data</u>, teaching quantitative analysis.
- Conducted Political Geography workshops for widening participation initiatives.
- Led seminars across political, economic, urban & health geographies.

Research Associate

Apr. 2023 - Sep. 2023 & Jun. 2024 - Dec. 2024

University of Bristol

Bristol, UK

- Developed Net-Zero Resilience Index, ranking UK areas by resilience to low-carbon economic restructuring.
- Contributed to public reports, peer-reviewed <u>articles</u> & built websites for policy engagement.
- Analysed energy efficiency of Bristol's rental housing & created a webmap.

UKRI Policy Intern

Jun. 2022 – Sep. 2022

UK Home Office, Central Analysis & Insights Team

London, UK

- Led analytical initiatives in data visualisation, spatial analysis & communication for non-experts.
- Consulted on evaluative survey redesign aligned with customer needs.

Consultant Apr. 2023 – Present

- IPPR funded update to Net-Zero Resilience Index for 2024 Parliamentary Constituencies.
- Produced all maps for <u>Demos</u>' 2023 Good Credit Index Report.

Projects

Net Zero Resilience Index | R, Leaflet, Github, QGIS, HTML/CSS

Jun. 2024 - Dec. 2024

- Developed an economic complexity methodology utilising machine learning to analyse UK employment.
- Created a ranked resilience index for regional net-zero economic transition.
- Published map via GitHub Pages & authored detailed report & peer-reviewed article (accepted).

PhD Thesis $\mid R, QGIS, SQL, LaTeX$

Sep. 2020 – Nov. 2024

- Authored 58,000 word peer-reviewed thesis.
- Analysed voting behaviour using big data, large national surveys, local economic data & statistical models.
- Applied machine learning, mixed-effects models & descriptive statistics.
- Effectively balanced teaching, research projects, upskilling, internships & professional commitments.

TECHNICAL SKILLS

Languages & Tools: R, Python, SQL, HTML, CSS, LaTeX; RStudio, Jupyter, Databricks, Azure, Power BI, Posit Connect, QGIS, ArcGIS Online, ArcGIS, Visual Studio, Excel, Overleaf, MS Office.

Datasets: ACLED, BES, BSA, BRES, CHES, EPCs, IMDs, Scottish Census, SAE, UK Census, UKHLS,

UK Land Registry & many others.