



Portfolio:

www.morenostok.ioHighlight: [D3 data game](#)

EDUCATION

Doctorate in Data Science
and Visualisation
University of Bristol, 2023

MSc Research Methods
University of Bristol, 2018

BSc Psychological Science
1st Class Hons.
University of Bristol, 2017

LANGUAGES

HTML/CSS 5+ years

TailWind, Bootstrap, Animate.css

JavaScript (JS) 5 yearsD3, TypeScript, React, Node.js,
Apps Script, JSON, GeoJSON**R** 3 years

Dplyr, ggplot2, hmisc, psych

SQL 2 yearsBigQuery, IBM DB2, SQLite, MySQL,
Microsoft SQL Server, Eclipse**Python** 2 years

Pandas, networkx, FLASK, numpy

No-SQL & APIs 1 yearNeo4j, MongoDB, GraphQL
(exposure), Insomnia, Postman

SECURITY CLEARANCE

UK Security Clearance
(SC), 2023
UK Secure eResearch
Platform approved, 2021

DR. CHRIS MORENO-STOKOE

Highly driven hybrid engineer who combines the psychology of visualisation, with strong data and engineering skills to produce unique experiences.

SKILLS

Team Collaboration VSCode Live Share, Azure DevOps, Miro, Mural, Google, Teams, Slack & Trello**Front-End** Web apps, interactive data visualisations & games **Cloud** GCP, AWS (S3), CPanel**Data Science** Network and geospatial data, ETL, predictive modelling, statistics, public health**Product Management** Requirements & design, Agile, Lean 6σ, MoSCoW, Kanban, GANTT, RAG**UX/UI** Rive (JS), Figma, Adobe CC **CI/CD** GIT, GitHub (incl. actions), VS GitLens, GitLab

EXPERIENCE

PwC, LONDON

OCT 2022 – Present

DATA SCIENCE LEAD

Identified a gap in utilising data driven web apps and created a role for myself with Senior Engineer responsibilities around managing and developing software for data visualisation and automation activities:

- Strong emphasis on networking, commercial awareness and business acumen
- Identified an opportunity to establish a new data science team and created upskilling pathways for this team, while negotiating and winning bids for this team to support on internal AI projects (~£100k)
- Effective networking across the organisation to identify and negotiate opportunities
- Managed data products by working with stakeholders to refine requirements and collaborating with data architects and software engineers to design robust products (e.g., Azure DevOps, Figma)
- Highly active within the community, founding a 100+ member community supporting data driven apps
- Worked independently as the principal developer on the front and back-end components of products that are now used daily, have been adopted at the highest levels, and save more than £150k per year in company time (JS, React, Google Apps Script, BigQuery, SQL, D3, Node.js, Power BI)

PUBLIC HEALTH WALES, CARDIFF

MAR 2020 - MAY 2021

SENIOR RESEARCHER

Lead COVID-19 rapid-response projects evaluating the impact of COVID-19 on vulnerable populations. Worked with several contributors to produce impactful publications that prioritised healthcare spending:

- [COVID map](#): Integrated live data into an interactive map showing disease hotspots (JS, D3, Mapbox, Python, REST, scraping)
- [National homelessness report](#): Analysed Electronic Care Records to assess the impact of COVID-19 on the homeless population and visualised the results to communicate key messages (JS, D3, SQL, R)
- Training junior team members in data science and software development
- Producing and collecting feedback on prototype visualisations (Adobe CC)
- Budgeting, cost estimation, and project road mapping (GANTT)

SELF-EMPLOYED DIGITAL CONTRACTOR, SOUTH WEST ENGLAND

JUNE 2015 – AUG 2022

Worked part-time alongside studies to establish a personal brand, supporting local healthcare and charities with patient-facing software:

• FLOURISHING EDUCATION LTD, BRISTOL (DEC 2021 – AUG 2022)

Developed an online [mental health assessment](#) tool with a custom visualisation component (JS, React, D3), and helped establish a web presence (Wordpress, Wix, Teachable) and advertisement strategy (AdSense)

• ENDCORONAVIRUS.ORG, GLOBAL COLLABORATION (SEPT 2021-MAY 2022)

Led a global collaboration to develop an [interactive simulation and visualisation](#) used as part of a campaign to communicate COVID-19 modelling to Irish and Israeli policy makers, allowing them to “play” the data (React)

• BOUNCE TECHNOLOGIES LTD, BRISTOL (MARCH 2019)

Scraped information from Google and Apple Stores to analyse wellbeing app design effectiveness (Node.js, R)

• NHS ASPEN MEDICAL PRACTICE, GLOUCESTER (NOV 2017 – MAY 2018)

Developed and supported an online medical triage system used by 10% of patients (HTML/CSS)

• NHS, GLOUCESTER (JUNE 2015 – MAY 2018)

Held a number of contracts updating and implementing digital strategies including web design, CMS (SquareSpace), and digital signage for the Heathville, Barnwood, London and Aspen medical practices

DOCTORAL RESEARCH PROJECTS, BRISTOL

SEPT 2019 – AUG 2023

Learned strong data science and software engineering skills over a course of academic research projects:

- Developed a complex, D3-based, [citizen science game](#) where students “played” with a data model based on epidemiological network analysis and suggested solutions to real problems in public health (JS, D3)
- Showcased [minigames](#) at engagement events designed to communicate important messages in public health (JS)
- Published a [novel network visualisation tool](#) for genetic epidemiologists to visualise complex findings (JS, D3)
- Contributed as part of a team to create a science museum exhibit around artificial intelligence (Azure ML, JS)

Previous positions include medical administration (2011-2014), research assistance (2014-2017) and IT support (2016).

PUBLICATIONS

Full [ORCID profile](#)

- Moreno-Stokoe, C.M. (2023) Visual and gamified approaches to understanding complex causal networks in human health, [Doctoral thesis](#), University of Bristol library
- Song, J., Moreno-Stokoe, C.M., et al. (2021). Individuals with lived experience of homelessness and their COVID-19 outcomes in Wales: a data linkage study. [The Lancet](#), 398, S81.
- Woolf, B., Di Cara, N., Moreno-Stokoe, C.M. et al. (2021). Investigating the transparency of reporting in two-sample summary data Mendelian randomization studies. [medRxiv](#).
- Di Cara, N., Moreno-Stokoe, C., et al. (2020). Mapping population vulnerability and community support during COVID-19: a case study from Wales. [International journal of population data science](#), 5(4).
- Moreno-Stokoe, C. M., & Damian, M. F. (2020). Employing Natural Control for Confounding Factors in the Hunt for the Bilingual Advantage in Attention: Evidence from School Children in Gibraltar. [Journal of cognition](#), 3(1).

CERTIFICATIONS AND DISTINCTIONS

Training

Data governance, NHS (2021)
Lean Six Sigma, PwC (2023)

Data science & research awards

British Psychological Society, 2018
Brigstow Highlight Call Grant, 2018
EPS Advancement of Science Award, 2017
Economic Social Research Council, 2017
Highest dissertation mark (Psychology), 2017

Visualisation competitions

Win - MS Excel & NASA, 2020
Runner - Jean Golding Institute, 2019