

# Martin Čadek

DATA SCIENTIST | PHD

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*I am employed as a Data Scientist at Roche, where I lead the end-to-end delivery of reproducible analyses and statistics for clinical trials focused on studying obesity using R, Python, and SAS. I have over five years of experience in data science, and I am passionate about reproducible research, open-source projects, and socially impactful work. I hold a PhD in Public Health and Obesity, a Master's Degree in Psychology, and a Postgraduate Certificate in Data Science and Statistics.*

## Experience

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### Roche

Welwyn Garden City, England

SENIOR DATA SCIENTIST

2023 - ongoing

- Providing end-to-end data science support for Phase 1 and 2 clinical trials in Cardiovascular and Metabolism Disease Areas (CVRM), leveraging GitLab CI/CD, Snakemake, and modular pipelines to enable efficient data transformation, analysis, and visualisation.
- Leading data science study activities and managing a small team of data scientists to effectively deliver key reporting activities for clinical studies.
- Authoring, reviewing, and planning analysis specification documents used to produce key statistical outputs for stakeholders, such as clinical scientists, to inform study decision-making.
- Developing and executing strategic initiatives for classical and generative AI integration within Data and Statistical Sciences at Roche, driving innovation as a member of the AI Team.
- Facilitating the adoption of next-generation programming tools across Roche by delivering targeted training and workshops, providing governance, and supporting the seamless integration of solutions such as GitHub Copilot and large language model (LLM) chatbots.
- Bringing over five years of specialised data science experience, with deep expertise in R programming, advanced statistics, impactful visualisations, Git-based workflows, and package development.

### Vodafone

London, England

QUANTITATIVE USER RESEARCHER

2022 - 2023

- Combined statistical modelling techniques with a focus on user behaviour to develop business-wide metrics measuring user experience across key digital journeys, leveraging expertise in psychometric testing, validity, and reliability.
- Established methodologies to support quantitative UX research and standardised the approach to user experience measurement, with a focus on reproducible survey analysis using Python and R.
- Collaborated with designers, product owners, data scientists, researchers, and stakeholders to develop user-centred products, demonstrating a strong collaborative mindset.
- Created reproducible pipelines using Python to process data from APIs and visualise results in a dashboard environment.
- Utilised R, Python, Git, and Azure DevOps, reflecting strong technical expertise and drive to innovate.

### Kantar

London, England

DATA SCIENTIST

2021 - 2022

- Developed industry experience as a data scientist, working with structured, unstructured, and large datasets, and tackling a variety of data challenges in the fast-moving consumer goods sector.
- Created bespoke solutions for clients using advanced statistical techniques, including hierarchical clustering algorithms, k-means, and latent class analysis.
- Provided data-driven insights through solutions such as customer segmentations, market penetration analyses, and market structure assessments, showcasing the ability to drive data-driven decision-making.
- Utilised tools such as Git, Azure DevOps, SQL, R, and SAS, demonstrating strong programming skills and technical expertise.

### Department of Health and Social Care

London, England

STATISTICIAN

2020 - 2021

- Delivered situational reports and statistical support for briefings in collaboration with policy colleagues and the Test and Trace programme.
- Contributed to quality assurance of analyses across the team and promoted data science using the R programming language.
- Automated reporting in R for flu immunisation status of residents and staff at care homes in England.
- Created reproducible analytical pipelines (RAP) to draw and access Care Home data from a JSON feed.
- Developed RAP to extract and process data from the Office for National Statistics (ONS).
- Worked on visualisations and numerous ad-hoc requests across topics such as flu immunisation, survey response rates, and COVID-19 incidence.
- Provided quality assurance of reports, statistical analyses, and figures.

- Conducted research to improve routine feedback letters with height and weight results delivered to parents of Reception and Year 6 children as part of the National Child Measurement Programme (NCMP) in England.
- Engaged multiple stakeholders such as Local Government, Public Health England, and parents, providing nuanced insights into the NCMP. Developed three complex studies using qualitative and quantitative methods.
- Gathered opinions of 92 Local Government Authorities in England, providing results to Public Health England for further improvement. Prepared cluster randomised controlled trial and analysed complex survey data using various regression models.
- Developed and improved feedback letters, resulting in better parental perceptions. Utilised computerised text analysis techniques such as sentiment analysis, topic modelling (LDA), and hierarchical clustering. Used Google Natural Language Processing speech-to-text API for automatic transcription of interviews.
- Published research as part of my PhD, including contributions to articles such as 'The Psychological Science Accelerator's COVID-19 Rapid-Response Dataset,' 'Effect of health-care professionals' weight status on patient satisfaction and recalled advice,' and other studies focusing on public health, health messaging, and social distancing during the COVID-19 pandemic.

Skills

- PROGRAMMING & TOOLS
- Proficient in R, Shiny, Git, SQL, SAS, Python
- DATA ANALYSIS
- Expert in statistical modelling and quantitative research methodologies
- PROJECT MANAGEMENT
- Efficient in managing timelines, scope, and resources for research projects
- CLIENT RELATIONS
- Skilled in maintaining client relationships and aligning research with client goals
- RESEARCH & COMMUNICATION
- Proficient in research, data visualisation, and presenting research findings concisely

Education

<div>Trinity College Dublin</div> <div>PGDIP, STATISTICS AND DATA SCIENCE</div>	<div>Dublin, Ireland</div> <div>2025 - ongoing</div>
<div>Trinity College Dublin</div> <div>PGCERT, STATISTICS AND DATA SCIENCE</div>	<div>Dublin, Ireland</div> <div>2024 - 2025</div>
<div>Leeds Beckett University</div> <div>PHD DEGREE, PUBLIC HEALTH AND OBESITY</div>	<div>Leeds, England</div> <div>2017 - 2022</div>
<div>Charles University</div> <div>MASTER'S DEGREE, PSYCHOLOGY</div>	<div>Prague, Czechia</div> <div>2013 - 2016</div>
<div>Charles University</div> <div>BACHELOR'S DEGREE, PSYCHOLOGY</div>	<div>Prague, Czechia</div> <div>2010 - 2013</div>