

Dr Rachel Cooper

BSc, Ph.D

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[Portfolio](#)

[LinkedIn](#)

Data scientist with a background in psychology. Showcasing strong analytic, communication and problem solving skills. Passionate about deriving actionable value from data. Excelling in Python and Tableau with a keen interest in mastering new tools and emerging technologies.

EXPERIENCE

SMRS, *Data Scientist*

March 2022 - August 2023

- Using Python and Tableau - Designed and implemented innovative data science solutions to optimise unbiased recruitment for businesses and universities.
- Managed senior stakeholders, produced proposals, written reports, client presentations and Tableau dashboards.
- Projects included geospatial analysis, segmentation, pipeline modelling, media spend optimisation and network analysis.

S2DS Pivigo, *Data Science Fellow*

2022

- Used novel machine learning techniques to optimise the reach and funding of the charity National Childbirth Trust by building a data-driven pricing structure.
- Provided weekly insights and visualisations according to the charity's needs.
- Team coded in Python with git.

University of Essex, *Lecturer*

2017 - 2019

- Developed and coordinated undergraduate and postgraduate courses in statistics, research methods and psychology.
- Supervised undergraduate and postgraduate research projects.
- Ambassador for disabled students

Newham College University Center, *Lecturer*

2015 - 2017

- Developed courses for undergraduate statistics and psychology for all levels.
- Supervised student research projects and provided mentoring support.

University of Essex, *Lab Technician*

2015

- Managed research and computer labs, MATLAB support.

EDUCATION

University of Essex, Colchester — *Ph.D*

2010 - 2014

University of Essex, Colchester — *MSc Modules*

2007 - 2010

Research Management (78%) Quantitative Data Analysis (73%)

Anglia Ruskin University, Cambridge — *BSc*

2007 - 2010

1st class honours

TECHNICAL SKILLS

Tech stack: Python, Matlab, SPSS, Tableau, Git.

Python libraries: Pandas, Numpy, Matplotlib, Seaborn, NLTK, BeautifulSoup, Geopandas, Selenium, Scikit Learn, Folium.

Advanced statistics: Regression, ANOVA, dimension reduction, path analysis, clustering, segmentation, network analysis, geospatial analysis.

SOFT SKILLS

Presentation: international conferences, lectures, workshops, public events, stakeholder management

Team leading, Mentoring, Mental Health First Aid (MHFAE)

GRANTS AWARDED

University of Essex Scholarship for Ph.D research (£48,000)

2 x EPS Grindley grant (£1000)
