Dr Rachel Cooper

BSc, Ph.D, CPsychol

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Data scientist with a background in psychology. Over 9 years of experience in academic institutions conducting research, teaching statistics and managing teams. Possessing excellent analytic, communication and problem solving skills as well as passion for mission driven organisations.

EXPERIENCE

SMRS, *Data Scientist*   2022 - present
- Designed and implemented innovative data science solutions to optimise unbiased recruitment and improve culture for businesses and universities.
- Presented proposals, written reports, dashboards and presentations to clients.
- Projects included geospatial analysis, propensity modelling, pipeline modelling, media spend optimisation, competitor analysis 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.
- Team coding in Python to provide new insights weekly.

University of Essex, *Lecturer*   2017 - 2019
- Developed and coordinated undergraduate and postgraduate courses, teaching statistics, research methods and psychology.
- Supervised undergraduate and postgraduate research projects.
- Enacted the role of ambassador for disabled students.

Newham College University Center, *Lecturer*   2015 - 2017
- Developed and taught undergraduate courses in statistics and psychology.
- Supervised student research projects and provided mentoring support.

University of Essex, *Lab Technician*   2015
- Managed research labs, solving software and research equipment issues, MATLAB programming 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

Advanced: Python, Matlab, SPSS, Excel.

Intermediate: Tableau, Git, web scraping, geospatial analysis.

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

Advanced statistics: Supervised and unsupervised machine learning, regression, ANOVA, dimension reduction, path analysis, clustering, network analysis, segmentation.

SOFT SKILLS

Presentation: international conferences, lectures, workshops, public events

Team leading and participation for teaching, research and data science

Mentoring of students, **Mental Health First Aid** (MHFAE, 2018)

GRANTS AWARDED

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

2 x EPS Grindley grant (**£1000**)