

Giacomo Vagni
DPhil Student in Sociology
University of Oxford
Nuffield College
✉ giacomo.vagni@nuffield.ox.ac.uk
📄 giacomovagni.github.io/personal/

DPIR
University of Oxford

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To whom it may concern,

I am writing to apply for the “Quantitative Methods Graduate Teaching Assistantships” position.

I am a second year DPhil student in Sociology. My work focuses on the social stratification of parental time in the UK using time use diaries. I have a strong programming background in R (`dplyr`, `data.table`, `Rcpp`). I also have some programming experience in C++ and Python.

I am very interested in statistical programming, visual statistics and high performance computing. I have been involved in several projects involving “big data”. Another research interest of mine is reproducible research and in particular reproducible statistical analysis. I am familiar with `Knitr` (`RSweave` and `RMarkdown`), Github and in writing and sharing R packages.

I have a basic knowledge of regression analysis (OLS, multilevel and fixed effects) but I am more interested in computer science based methods such as sequence analysis. I have great interest in visual and exploratory statistics and I have an extensive knowledge of `ggplot2`.

I think that I am an ideal candidate because of my interest in programming and reproducible research. Firstly, I am qualified to teach R basics and R programming. Secondly, I can teach students how to create powerful workflows and reproducible analysis using `Knitr` and Github.

Supervisor details: Professor Oriel Sullivan, oriel.sullivan@sociology.ox.ac.uk, St Hugh's College.

Yours faithfully,

Giacomo Vagni

Attached: curriculum vitae