

Application: Supporting Information

Will M. Webberley

Please find information below to support my claims to the position's required essential criteria.

Evidence of written and verbal skills

Throughout my PhD and undergraduate degree, I have been required to produce many examples of high quality written work - presentations (formal / non-formal), research, teaching (tutorials / lecture-style, etc.)

Communicating complex ideas

The field of computer science is among those that sometimes require understanding highly hypothetical situations, and when teaching these ideas to less-experienced undergraduate students I have had to find methods for conveying the information in an effective and comprehensive fashion.

Course planning, development, teaching & assessment in social methods

Interest in the analysis of social science data

- worked on interdisciplinary project with PhD students from SOCSI - supervised projects involving production of social media visualisations with correspondence with COSMOS - currently researching Twitter and its relations to crime

Knowledge of skills and techniques for quantitative analysis

I am aware of and have experience with various techniques used from data collection, storage, and through to the quantitative analysis of the data. I enjoy discovering new features in data in order to support findings by providing further rigidity to results.

I have knowledge of how to find the appropriate methods for analysing data in different ways, am experienced in using Python for data analysis and have some experience with tools such as R and Matlab.

Demonstration of the understanding of primary and secondary research

I have been involved in many instances of data analysis as part of primary and secondary research. The majority of my PhD has involved using data I've directly collected from sources, such as Twitter. In addition, I've been involved with the collection from media such as Last.fm and IMDB for use in research projects. I also have knowledge of and experience with various tools and practices behind uses of APIs for collecting data and for handling and the storage high data volumes.

I have also carried out secondary research, for example with police and government data on crime, crime outcome, food hygiene, pre-collected Twitter data in a variety of research projects and during my PhD.

Development of research and funding proposals

Last year I co-authored an application for funding for an interdisciplinary 'hackathon' event between the schools of Social Science and Computer Science & Informatics, which was successful, and several short research projects involving social data emerged.

Collaborative work includes work on the TaRDIS project, relating to social media and crime in South Wales and London, and some contribution to the EU Recognition project.

Publication potential of research findings

During my PhD I have periodically published work of interest in relevant conference workshop papers and have presented these in Italy and Germany in addition to posters demonstrating my research in more local events. I have also contributed work to other research projects in the School of Computer Science & Informatics.

Experience of undergraduate and postgraduate teaching

Throughout the past three years of my PhD I have been responsible for carrying out teaching duties for the undergraduate and MSc students in the School of Computer Science & Informatics. These have involved running tutorials, practical lab sessions, lecture style-sessions, and so on, several times a week for groups of up to 140 students.

I have also been the supervisor in a series of year-long undergraduate group projects, providing assistance and being responsible for several groups of 6-10 students.

The teaching has included the assessment of the students in a variety of formats, including periodic coursework assessment, presentations, reports, practical demos, and so on.

I have also attended courses, run by the UGC, on assessment and demonstrating student learning in the sciences.

Higher-level degree status

I am currently in the final stages of writing up my PhD thesis, which I plan to submit and complete by Spring 2014.