



Data Fellowship Project 2023

The Ditchley Foundation - Bridging Divides with Graph Networks

Organisation and Team

The Ditchley Foundation works to promote peace, freedom and the rule of law around the world

Selection Method

Applicants should submit a CV and covering letter. We will conduct interviews with selected candidates.

Application Criteria

Essential:

- We are looking for applicants with a curious mind who are eager to immerse themselves in the ethos of the foundation

Desirable:

- Applicants must have competent quantitative skills, but these could be demonstrated in various ways, for example in coding ability (e.g. Python or R), experience with statistical software (e.g. SPSS), or simply having advanced analytic skills with spreadsheets. Note that we do not expect all the above - these just give a flavour of the type of skills that we are looking for.

Project Outline

This project revolves around the understanding of people and their networks across areas such as education, climate and politics. You will perform research on individuals, with the information being managed using a knowledge graph. This will allow you to visualise and reflect on the person's network, to understand how they fit into the overall network of all individuals. Innovative techniques will be applied to extract statistics showcasing the strengths and weakness of this network.

The successful researcher will use both qualitative and quantitative skills to provide crucial insights into the people and themes that are shaping society today. This project provides a great opportunity to become immersed in the ethos of Ditchley and to contribute to its goals, developing skills that will prove valuable across a range of future career paths.



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Practical Considerations

Successful interns will need to start on 12th June with a full-time commitment for eight weeks.

As these placements will be carried out remotely, there are no specific practical considerations. Hours can be worked flexibly, although you will be expected to attend a number of calls spread throughout the week.

For those interns who are interested in visiting Ditchley Park in person, we will invite everybody to a celebration day, scheduled for 22nd July. This is not mandatory and so we welcome applications regardless of your ability to attend this event.

Support and Training

Successful applicants will receive considerable research training and support throughout the duration of these projects.

Supervision will be led by Dr. Martin C. Smith in collaboration with other members of the Ditchley team.

You will be introduced to graph databases and learn how to use Neo4j, which is one of the most popular packages.

Statistical analyses can be carried out using whichever software you are most comfortable with, from spreadsheets to coding (see Application Criteria and Supporting Information).

Supporting Information

Further details on the project can be found here:

<https://tinyurl.com/ditchley-manchester-2023>