

## PhD Studentship in Smartphone-Based Cognitive Neuroscience Research in Ageing and Dementia

<b>Post Title:</b>	PhD Studentship
<b>Post Status:</b>	3 Year Fully-Funded PhD Studentship
<b>Research Group / Department / School:</b>	Gillan Lab, Trinity College Dublin, the University of Dublin
<b>Location:</b>	Trinity College Institute of Neuroscience, Lloyd Building, Trinity College Dublin, the University of Dublin College Green, Dublin 2, Ireland
<b>Reports to:</b>	Dr Claire Gillan
<b>Terms &amp; Conditions:</b>	€18,500 annual stipend
<b>Hours of Work:</b>	9 - 5.30pm
<b>Closing Date:</b>	12 Noon (GMT), 6 <sup>th</sup> November 2020

### **Post Summary:** PhD Studentship in *Smartphone-Based Cognitive Neuroscience Research in Ageing and Dementia*

The research laboratory of Dr. Claire Gillan ([www.gillanlab.com](http://www.gillanlab.com)) at Trinity College Dublin has funding for a PhD student to work with data acquired through the smartphone platform, neureka ([www.neureka.ie](http://www.neureka.ie)). Topics of interest may include machine learning approaches to risk prediction, how cognitive profiles interact with modifiable risk factors for dementia, and how mental health and dementia risk intersect.

The student will have the opportunity to design an original piece of research as part of their training, but ***much of their work*** will be on a large existing dataset gathered through the neureka project. This means that the student will be amongst the first to publish data from the app, which is in and of itself an exciting opportunity. Because high quality data has been gathered already, the student will be able to hit the ground running on their PhD. That means presenting research at international conferences and submitting papers for publication in the first year of their PhD!

The position is funded for **3 years** (the typical duration of a PhD in Ireland), starting March 2021. The student will join a growing team of PhD students, postdoctoral fellows, and technical staff (e.g. app developer) and will participate in regular lab meetings, learn about diverse methodologies in mental health science and have the opportunity to attend international conferences annually. While 3 years may seem short, 50% of students in the lab

have worked to this time-frame and as mentioned above, the availability of already gathered data from the neureka project will ensure the student can hit the ground running.

Below is a list of several qualities and qualifications of an ideal candidate for the position, but please know that no PhD candidate will have them all! Strength in one area can make up for less experience in another. Consider carefully your motivation for embarking on a PhD, the skills/experience that you think make you well suited to a career in science and why would be a good fit for our lab. **These points should form the basis of a cover letter expressing your interest in the role.**

### **Standard Duties and Responsibilities of the Post**

The PhD student will carry out an original body of research as part of the requirements for the PhD in Psychology at Trinity College. This does not necessitate collecting new data, but the opportunity for this will be made available to the student. They will participate fully in lab life, attending regular meetings and collaborating with other lab members. They are expected to be a self-starter, eager to learn and enthusiastic about their area of study.

### **Funding Information**

This role is funded from a grant from Science Foundation Ireland (Frontiers for the Future) awarded to Dr Gillan.

### **Person Specification**

The PhD Studentship would be ideally suited to someone recently graduated from a psychology degree who is considering a future in academic or industry research. They will join a growing team of PhD students, postdoctoral fellows, and technical staff (e.g. app developer) and will participate in regular lab meetings, learn about diverse methodologies in mental health science, help to design novel experiments, analyse datasets and present findings to the group.

The ideal candidate is a highly motivated person, that is passionate about research in brain health, cognitive neuroscience and their intersection. They must have outstanding written and verbal communication skills and make a commitment to learning advanced data analysis techniques.

### **Qualifications**

- A bachelor's degree in psychology, neuroscience or a related field (Essential).

### **Knowledge & Experience**

- Experience conducting research with human subjects (Desirable)
- Experience presenting results of research in written and oral format (Desirable)
- Prior experience with vulnerable populations (e.g. individuals suffering from mental health problems or dementia) (Desirable)

### **Skills & Competencies**

- Basic data analysis skills: Excel / SPSS (Essential)

- Intermediate data analysis skills: python / R / Matlab etc (Desirable)
- A commitment to attaining proficiency in the above (Essential)
- Outstanding written and verbal communication skills (Essential)
- Critical thinking / analytical skills (Essential)

#### Attributes

- Excellent organisational skills and professionalism (Essential)
- Highly motivated and enthusiastic (Essential)
- Rigour, diligence and respect for science (Essential)
- A collaborative nature, willingness to learn from others and to share knowledge (Essential)

#### Application Procedure

Applicants should submit **(i) a detailed cover letter, (ii) a Curriculum Vitae** and **(iii) the names and contact details of 2 referees** (including email addresses). Please submit these materials to Dr Claire Gillan, [gillancl@tcd.ie](mailto:gillancl@tcd.ie).

Your CV should include grades and any other academic distinctions you think are relevant. Transcripts will be required to support this, should your application progress to the final stages (but are not necessary for initial application). It is important that the CV gets across the extent of your practical experience in research to date. Have you held any positions in research before? Have you interned or completed a dissertation project? If so, what were the projects that you completed and what were your specific responsibilities? Did you give presentations, write a report or paper, what competencies do you have (can you code? what software?), etc. The cover letter is perhaps the most important part of your application – please take the time to carefully outline your interests, your past experience, your goals for the future and why you are a good fit for this project and our lab, in particular. Shortlisted candidates will be asked to submit a 2-page research proposal, details of which will be provided to successful candidates.

#### Further Information for Applicants

URL Link to Area	<a href="http://www.tcd.ie">www.tcd.ie</a>
URL Link to Human Resources	<a href="https://www.tcd.ie/hr/">https://www.tcd.ie/hr/</a>

## **Trinity College Dublin, the University of Dublin**

Trinity is Ireland's leading university and is ranked 108th in the world (QS World University Rankings 2020). Founded in 1592, the University is steeped in history with a reputation for excellence in education, research and innovation.

Located on an iconic campus in the heart of Dublin's city centre, Trinity has 18,000 undergraduate and postgraduate students across our three faculties – Arts, Humanities, and Social Sciences; Engineering, Mathematics and Science; and Health Sciences.

Trinity is ranked as the 17th most international university in the world (Times Higher Education Rankings 2020) and has students and staff from over 120 countries.

The pursuit of excellence through research and scholarship is at the heart of a Trinity education, and our researchers have an outstanding publication record and strong record of grant success. Trinity has developed 19 broad-based multidisciplinary research themes that cut across disciplines and facilitate world-leading research and collaboration within the University and with colleagues around the world. Trinity is also home to 5 leading flagship research institutes:

- Trinity Biomedical Sciences Institute (TBSI)
- Trinity College Institute of Neuroscience (TCIN)
- Trinity Translational Medical Institute (TTMI)
- Trinity Long Room Hub Arts and Humanities Research Institute (TLRH)
- Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN)

Trinity is the top-ranked European university for producing entrepreneurs for the past five successive years and Europe's only representative in the world's top-50 universities (Pitchbook Universities Report).

Trinity is home to the famous Old Library and to the historic Book of Kells as well as other internationally significant holdings in manuscripts, maps and early printed material. The Trinity Library is a legal deposit library, granting the University the right to claim a copy of

every book published in Ireland and the UK. At present, the Library's holdings span approximately 6.5 million printed items, 400,000 e-books and 150,000 e-journals. With over 120,000 alumni, Trinity's tradition of independent intellectual inquiry has produced some of the world's finest, most original minds including the writers Oscar Wilde and Samuel Beckett (Nobel laureates), the mathematician William Rowan Hamilton and the physicist Ernest Walton (Nobel laureate), the political thinker Edmund Burke, and the former President of Ireland Mary Robinson. This tradition finds expression today in a campus culture of scholarship, innovation, creativity, entrepreneurship and dedication to societal reform.

### **Rankings**

Trinity is the top ranked university in Ireland and ranked 108th in the world (QS World University Rankings 2020). Trinity ranks in the top 50 in the world on 4 subjects and in the top 100 in 18 subjects (QS World University Rankings by Subject 2020). Full details are available at: [www.tcd.ie/research/about/rankings](http://www.tcd.ie/research/about/rankings).

## **The Selection Process in Trinity**

The Selection Committee (Interview Panel) may include members of the Academic and Administrative community together with External Assessor(s) who are expert in the area. Applications will be acknowledged by email. If you do not receive confirmation of receipt within 1 day of submitting your application online, please contact the named Recruitment Partner on the job specification immediately and prior to the closing date/time.

Given the degree of co-ordination and planning to have a Selection Committee available on the specified date, the University regrets that it may not be in a position to offer alternate selection dates. Where candidates are unavailable, reserves may be drawn from a shortlist. Outcomes of interviews are notified in writing to candidates and are issued no later than 5 working days following the selection day.

In some instances the Selection Committee may avail of telephone or video conferencing. The University's selection methods may consist of any or all of the following: Interviews, Presentations, Psychometric Testing, References and Situational Exercises.

It is the policy of the University to conduct pre-employment medical screening/full pre-employment medicals. Information supplied by candidates in their application (Cover Letter and CV) will be used to shortlist for interview.

Applications from non-EEA citizens are welcomed. However, eligibility is determined by the Department of Business, Enterprise and Innovation and further information on the Highly Skills Eligible Occupations List is set out in Schedule 3 of the Regulations <https://dbei.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-Permits/Employment-Permit-Eligibility/Highly-Skilled-Eligible-Occupations-List/> and the Ineligible Categories of Employment are set out in Schedule 4 of the Regulations <https://dbei.gov.ie/en/What-We-Do/Workplace-and-Skills/Employment-Permits/Employment-Permit-Eligibility/Ineligible-Categories-of-Employment/> . Non-EEA candidates should note that the onus is on them to secure a visa to travel to Ireland prior to interview. Non-EEA candidates should also be aware that even if successful at interview, an appointment to the post is contingent on the securing of an employment permit.

## **Equal Opportunities Policy**

Trinity is an equal opportunities employer and is committed to employment policies, procedures and practices which do not discriminate on grounds such as gender, civil status, family status, age, disability, race, religious belief, sexual orientation or membership of the travelling community. On that basis we encourage and welcome talented people from all backgrounds to join our staff community. Trinity's Diversity Statement can be viewed in full at <https://www.tcd.ie/diversity-inclusion/diversity-statement>.

## Application Procedure

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