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PhD Studentships in Psychology, Cardiff University, UK

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Project title: Sleep and Memory



We spend 1/3rd of our life asleep, and the brain is very busy during this time. The neural oscillations of sleep have known restorative functions, and are also critical for memory consolidation and emotional processing. My laboratory studies all of these functions of sleep, and potential PhD projects include investigations into ways to manipulate sleep (called 'sleep engineering') in order to enhance all of these functions. Sleep engineering included manipulation of oscillations through auditory and electrical (tACS / tDCS) stimulation and manipulation of memory replay (targeted memory reactivation) in sleep. In my laboratory we are interested in enhancing sleep to improve health (for instance by counteracting the impacts of ageing which lead to reductions in deep slow wave sleep). We are also interested in manipulating memory consolidation by triggering the replay of selected memories in different combinations and in different sleep stages. This can lead not only to stronger memory, but to integration of new memories with each other and with existing knowledge, providing a basis for creativity.

Supervisors: Dr Penny Lewis

Start date: 1 October 2016

Funding

This studentship consists of full UK/EU tuition fees, as well as a Doctoral Stipend matching UK Research Council National Minimum (£14,057 p.a. for 2015/16, updated each year).

One studentship is available.

As well as tuition fees and a maintenance grant, you will receive a participant allowance of £300 per annum, and conference funding (£100 in Year 1, £600 in Years 2 and 3). You will also receive a computer and office space, and access to courses offered by the University's Graduate Centre and become members of the University Graduate College.

Eligibility

Academic criteria: As only one studentship is available and a very high standard of applications is typically received, the successful applicant is likely to have a very good first degree (a First or Upper Second class BSc Honours or equivalent) and/or be distinguished by having relevant research experience in psychology, biology, neuroscience, mathematics, or engineering/computer science.

Students are expected to have good quantitative skills, including knowledge of a scripting language such as R, MATLAB, or python, high scores in statistics courses, and a demonstrated interest in quantitative questions.

Residency: This studentship is open to students of any nationality. Students classified as international for fee purposes have to self-fund the difference between home and international fees.

How to Apply

Consideration is automatic on applying for **PhD in Psychology**, with a start date of **1 October 2016** via Cardiff University's Online Application Service. In the research proposal section of your application, please specify the project title and supervisors of this project and copy the project description in the text box provided. In the funding section, please select "I will be applying for a scholarship / grant" and specify that you are applying for advertised funding from School Funding.

The deadline for applications is **1 May 2016** with interviews (either in person or by Skype) being held late May 2016 and decisions being made by 1st June 2016.

Cardiff University reserves the right to close applications early should sufficient applications be received.

Further Information

For further information please contact Dr Penny Lewis on LewisP8@cardiff.ac.uk

The successful candidate will have access to a wide range of state-of-the-art research facilities and resources, including 3T and 7T MRI scanners, EEG/MEG and behavioural testing labs, and high-performance computing cluster.

For more information, please visit:scholarshipstips.com.

- 1. Fully Funded Undergraduate Scholarships, Singapore
- 2. Fully Funded Master Scholarships, Kyoto University, Japan
- 3. Fully Funded Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
- 4. Fully Funded Scholarships in Astronomy, University of Cambridge, UK
- 5. Fully Funded Scholarships International University of Japan
- 6. Full Tuition Fee LLM Scholarships, University of Warwick, UK
- 7. Fully Funded Scholarships Qatar University
- 8. Fully Funded Scholarships, Bond University, Australia
- 9. Fully Funded Art Major Asian plus Scholarships, Korea National University of Arts, South Korea
- 10. Full Funded VLIR-ICP Master Scholarships, KU Leuven, Belgium
- 11. Fully Funded Undergraduate Scholarships, Singapore Management University
- 12. Fully Funded Fulbright Distinguished Awards in Teaching Program, USA
- 13. Fully Funded Scholarships, Sun Moon University, South Korea
- 14. Fully Funded Scholarships, Pukyong National University, South Korea
- 15. Fully Funded Scholarships, Yonsei University, South Korea
- 16. Fully Funded Scholarships, Yeungnam University, South Korea
- 17. Fully Funded Scholarships, University of Seoul, South Korea
- 18. Fully Funded Scholarships, Ulsan National Institute of Science and Technology, South Korea
- 19. Fully Funded Scholarships, Sungkyunkwan University, South Korea
- 20. Fully Funded Scholarships, Sunchon National University, South Korea
- 21. Fully Funded Scholarships, Sogang University, South Korea
- 22. Fully Funded Scholarships, Seoul National University of Science and Technology, South Korea
- 23. Fully Funded Scholarships, Seoul National University, South Korea
- 24. Fully Funded Scholarships, Pusan National University, South Korea
- 25. Fully Funded Scholarships, Pohang University of Science and Technology, South Korea
- 26. Fully Funded Scholarships, Kyungpook National University, South Korea
- 27. Fully Funded Scholarships, University of New England, Australia
- 28. Fully Funded Scholarships, Kunsan National University, South Korea
- 29. Fully Funded Scholarships, Kookmin University, South Korea
- 30. Fully Funded Scholarships, Kangwon National University, South Korea
- 31. Fully Funded Scholarships, Jeonbuk National University, South Korea
- 32. Fully Funded Scholarships, Hoseo University, South Korea
- 33. Fully Funded Scholarships, Gyeongsang National University, South Korea
- 34. Fully Funded Scholarships, Ewha Womans University, South Korea
- 35. Fully Funded Scholarships, Dongseo University, South Korea
- 36. Fully Funded Scholarships, Dongguk University, South Korea

- 37. Fully Funded Scholarships, Chungnam National University, South Korea
- 38. Fully Funded Scholarships, Chung-Ang University, South Korea
- 39. Fully Funded Scholarships, Chonnam National University, South Korea
- 40. Fully Funded Scholarships, Ajou University, South Korea
- 41. Fully Funded Graduate Scholarships for International Students, South Korea
- 42. Fully Funded Fulbright Foreign Language Teaching Assistant, USA
- 43. Fully Funded Scholarships, CERGE-EI, Czech Republic
- 44. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
- 45. Master Scholarships, University of Twente, Netherlands
- 46. Fully Funded Sport Management Scholarships, Seoul National University, South Korea
- 47. Fully Funded ADB JSP Scholarships, Asian Institute of Technology, Thailand
- 48. Undergraduate Maths Scholarships for International Students, University of Edinburgh, UK
- 49. Fully Funded Scholarships in Singapore
- 50. Tuition + Living Allowance Scholarships, University of Waikato, New Zealand
- 51. Fully Funded Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 52. Fully Funded Scholarships, Okinawa Institute of Science and Technology, Japan
- 53. Master Scholarships, Faculty of Medicine, Imperial College London, UK
- 54. Fully Funded Australia Awards Scholarships
- 55. Fully Funded GCE A Level Scholarships for Indonesian Students, Singapore
- Fully Funded Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST), South Korea
- 1. VLIR-ICP Master Scholarships, KU Leuven, Belgium
- 2. Beasiswa UGM Universitas Gadjah Mada
- 3. Women and Diversity Undergraduate Scholarship PT. Thiess Contractors Indonesia
- 4. Art Major Asian plus Scholarship, Korea National University of Arts
- 5. Nailekhanim Foundation Scholarship, Khazar University, Azerbaijan
- 6. ASEAN Undergraduate Scholarship, Singapore Management University, Singapore
- 7. Fulbright Foreign Language Teaching Assistant (FLTA), American Indonesian Exchange Foundation, USA
- 8. Eira Francis Davies Scholarship, Swansea University, UK
- 9. Beasiswa Mahasiswa Pemerintah Kota Pekanbaru
- 10. Beasiswa Master 2, Prancis
- 11. Beasiswa Tematik, Prancis
- 12. Beasiswa Kartini Sains, Prancis
- 13. Beasiswa France Excellence S2, Prancis
- 14. Beasiswa France Excellence D3 / S1, Prancis
- 15. University of Waikato Doctoral Scholarship, New Zealand
- 16. Asian Development Bank Japan Scholarship Program (ADB-JSP), Asian Institute of Technology, Thailand
- 17. University of Twente Scholarship (UTS), Netherlands
- 18. Australian Government Research Training Program (RTP) Scholarship, Bond University, Australia
- 19. Australia Awards Scholarships
- 20. Faculty of Medicine Dean Master Scholarships, Imperial College London, UK
- 21. International Graduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
- 22. Asian Future Leaders Scholarship Program, Kyoto University, Japan
- 23. International Fashion Academy Scholarships, Paris
- 24. Beasiswa Bantuan Penelitian Bank Indonesia Institute
- 25. Special Scholarship Program (SSP), Kochi University of Technology, Japan
- 26. Beasiswa Mahasiswa Berprestasi Non Akademik Provinsi Kalimantan Barat
- 27. Future Leader Scholarship, LASALLE College of the Arts, Singapore
- 28. Beasiswa Talenta Atlet, Seni dan Sains Universitas Muhammadiyah Yogyakarta (UMY)
- 29. Beasiswa Kader Unggulan Muhammadiyah (KAUM) Universitas Muhammadiyah Yogyakarta (UMY)
- 30. Beasiswa Dokter dan Dokter Gigi Muhammadiyah Universitas Muhammadiyah Yogyakarta (UMY)
- 31. International Higher Education Scholarship Program, Taiwan
- 32. Talent Scholarship Qatar University
- 33. PhD Scholarships in Economics, CERGE-EI, Czech Republic
- 34. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
- 35. Beasiswa Jalur Prestasi, D3 Teknologi Pengolahan Kelapa Sawit, Institut Teknologi dan Sains Bandung
- 36. Beasiswa SMART Mills PT Sinar Mas Agro Resources and Technology Tbk
- 37. Beasiswa SMART Agro PT Sinar Mas Agro Resources and Technology Tbk
- 38. Vice Chancellor's International Excellence Scholarship, University of Waikato, New Zealand
- 39. Boustany Astronomy Scholarship, University of Cambridge, UK
- 40. Boustany Cambridge Pembroke Scholarship in Philosophy, University of Cambridge, UK
- 41. Vice-Chancellor's International Scholarships Scheme, University of Sydney, Australia
- 42. Edinburgh Global Undergraduate Mathematics Scholarships, University of Edinburgh, UK
- 43. PhD Scholarhips, Singapore International Graduate Award (SINGA)
- 44. Fulbright / Kennedy Center Fellowship, AMINEF, USA

- 45. PhD Scholarships, United Arab Emirates University, UAE
- 46. International Postgraduate Research Award (IPRA), University of New England, Australia
- 47. ASEAN Scholarships for Indonesia by Ministry of Education, Singapore
- 48. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 49. Fully Funded PhD Scholarships, Okinawa Institute of Science and Technology Graduate University, Japan
- 50. Dr Goh Keng Swee (GKS) Scholarship for Undergraduate Students, Singapore
- 51. Graduate Scholarships, Mohamed bin Zayed University of Artificial Intelligence, UAE
- 52. Master & PhD Scholarships, Honjo International Scholarship Foundation, Japan
- 53. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
- 54. Bond University Postgraduate Research Scholarship (BUPRS), Australia

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