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School of Electronic Engineering and Computer Science PhD Studentship, Queen Mary University of London, UK

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PhD Studentship in When Machine Learning Meets Big Data in Wireless Communications

Recent several decades have witnessed the exponential growth in commercial data services, which lead to step in the so-called big data era. The pervasive increasing data traffic present both the imminent challenges and new opportunities to all aspects of wireless system design, such as efficient wireless caching, drone base station deployment and adaptive nonorthogonal multiple access design. Machine learning, as one of the most promising artificial intelligence tools, has been invoked in many areas both in the academia and industry. Nevertheless, the application of machine learning in wireless communication scenarios is still in its infancy, which motivates to develop this PhD project. The aim of this PhD project is to use social media data to predict the requirements of mobile users for improving the performance of wireless networks.

Qualifications:

All applicants should hold a masters level degree at first /distinction level in Computer Science or Electronic Engineering (or a related discipline). Applicants should have a good knowledge of English and ability to express themselves clearly in both speech and writing. The successful candidate must be strongly motivated for doctoral studies, must have demonstrated the ability to work independently and to perform critical analysis.

Candidates are asked to possess fundamental knowledge and skills in two or more of the following areas:

- Excellent background in communication theory and signal processing algorithms. Good knowledge of emerging 5G and IoT techniques, such as NOMA, wireless caching and mobile computing, UAV, V2X, etc.
- Prior experience/education in both theory and practice of machine learning.
- Hands on experience using one of the following deep learning libraries: Tensorflow, PyTorch, Theano or similar.
- Good coding skills. (Python and C++ are considered a plus).

All nationalities are eligible to apply for this studentship. We offer a 3-years fully funded PhD studentship, with a bursary ~£16.5K/year and a fee waiver (including non-EU students), supported by the School of Electronic Engineering and Computer Science of the Queen Mary University of London, UK. The first supervisor is Dr. Yuanwei Liu . In addition to the studentship, we also welcome applications from students supported by other funding with relevant background or experience.

To apply, please follow the on-line instructions at the college web-site for research degree applicants. At the page, select 'Electronic Engineering in the list "FIND"' and follow the instructions on the right-hand side of the web page. Please note that instead of the 'Research Proposal' we request a 'Statement of Research Interests'. Your statement (no more than 500 words) should answer two questions:

1. Why are you interested in the topic described above?
2. What relevant experience do you have?

Please attach your CV, a transcript of records, and the title/s of your MSc dissertation/s.

In addition, we would also like you to send a sample of your written work, e.g., a chapter of your final year dissertation, or a published paper. More details can be found at: www.eecs.qmul.ac.uk/phd/apply

Applicants seeking further information or feedback on their suitability are encouraged to contact Dr. Yuanwei Liu with subject "Machine Learning & Wireless Communications PhD". However, please, do not send documents as they will be reviewed only after the deadline.

The closing date for the applications is **18th September 2018**.

Interviews are expected to take place in the end of September/beginning of October 2018.

Starting date: November 2018- April 2019 (dates can be flexible).

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1. Fully Funded Fulbright Scholarships for Indonesian Students, USA
 2. Space Studies Scholarships, International Space University, France
 3. Full Tuition Fee Scholarships for Female Students from Developing Countries, Swansea University, UK
 4. Full Tuition + Allowance Undergraduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST), South Korea
 5. MA Scholarships in Refugee Protection and Forced Migration Studies, University of London, UK
 6. Fully Funded PhD Scholarships in Economics, CERGE-EI, Czech Republic
 7. Fully Funded PhD Scholarships, Nanyang Technological University, Singapore
 8. Fully Funded Scholarships, Bond University, Australia
 9. Business School Master Scholarships, University of Leeds, UK
 10. Master Scholarships for International Students, Örebro University, Sweden
 11. Fully Funded Graduate Scholarships for International Students, University of Adelaide, Australia

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1. DAAD Scholarships in Fine Art, Design, Visual Communication and Film, Germany
 2. Beasiswa AEON - Institut Pertanian Bogor (IPB)
 3. PhD Scholarship in Exercise Sciences, La Trobe University, Australia
 4. Doctoral Research Scholarships, Leibniz University Hannover, German
 5. University of Saskatchewan International Excellence Awards, Canada
 6. Lazarski Foundation Scholarships, Lazarski University, Poland
 7. College of Humanities and Social Sciences International Excellence Scholarship, Massey University, New Zealand
 8. Research Training Program (RTP) Stipend Scholarship, Bond University, Australia
 9. Tourism Development & Culture (Erasmus Mundus Joint Masters) Scholarships, Europe
 10. PhD Studentship in Medical Education, Keele University, UK
 11. Paul Wheelton Scholarship, University of Melbourne, Australia
 12. Holland Scholarship, University of Twente, Netherlands
 13. Postgraduate Research Studentships, Queen Mary University of London, UK
 14. University of Twente Scholarship (UTS), Netherlands
 15. Millennium Development Scholarship, University of the West of England, UK
 16. Chancellor's Scholarship, University of the West of England, UK
 17. Eira Francis Davies Scholarship, Swansea University, UK
 18. Reducing Sitting Time in Type 2 Diabetes Scholarships, Australian Catholic University
 19. Research Training Program Scholarships, Australian Catholic University
 20. Curtin International Merit Scholarships, Curtin University, Australia
 21. ASEAN Graduate Scholarship, Nanyang Technological University, Singapore
 22. Fulbrights Grants for Indonesian Lecturers - Visiting Scholar Program, American Indonesian Exchange Foundation, USA
 23. Fulbrights Grants for Indonesian Lecturers - MA, American Indonesian Exchange Foundation, USA
 24. Beasiswa Yayasan Alumni Peduli IPB (YAPI) - Institut Pertanian Bogor (IPB)
 25. Fulbrights Grants for Indonesian Lecturers - PhD, American Indonesian Exchange Foundation, USA
 26. Undergraduate Postgraduate Bursary, Western Sydney University, Australia
 27. Postgraduate Scholarships, Western Sydney University, Australia
 28. Undergraduate Scholarships, Western Sydney University, Australia
 29. Fulbright US - ASEAN Visiting Scholar Initiative Program, AMINEF, USA
 30. Fulbright Distinguished Awards in Teaching Program for International Teachers (Fulbright DAI), USA
 31. Vice-Chancellor's International Scholarship, Macquarie University, Australia
 32. Fulbright PhD Scholarships, American Indonesian Exchange Foundation (AMINEF), USA
 33. Fulbright Master Scholarships, American Indonesian Exchange Foundation (AMINEF), USA
 34. ANU College of Engineering & Computer Science International Postgraduate Excellence Scholarship, Australia
 35. Masters in Marketing International Excellence Scholarships, University of Leeds, UK

36. Masters in International Business International Excellence Scholarships, University of Leeds, UK
37. Masters in Human Resource Management International Excellence Scholarships, University of Leeds, UK
38. Masters in Management Consulting International Excellence Scholarship, University of Leeds, UK
39. Masters in Organizational Psychology / Business Psychology International Excellence Scholarship, University of Leeds, UK
40. Masters in Information Systems and Information Management International Excellence Scholarship, University of Leeds, UK
41. Masters in Global Supply Chain Management International Excellence Scholarship, University of Leeds, UK
42. PhD Scholarships in Chemical Engineering, Imperial College London, UK
43. Masters in Global Strategy and Innovation Management International Excellence Scholarship, University of Leeds, UK
44. Masters in Enterprise and Entrepreneurship International Excellence Scholarship, University of Leeds, UK
45. Community College Initiative Program, American Indonesian Exchange Foundation, USA
46. Masters in Business Analytics and Decision Sciences International Excellence Scholarship, University of Leeds, UK
47. Masters in Management International Excellence Scholarship, University of Leeds, UK
48. Masters in Accounting and Finance International Excellence Scholarship, University of Leeds, UK
49. Dean's International Excellence Scholarship, University of Leeds, UK
50. Academic Excellence Scholarship, Bournemouth University, UK
51. Executive Dean's Scholarship, Faculty of Science & Technology, Bournemouth University, UK
52. Executive Dean's Scholarship, Department of Tourism and Hospitality, Bournemouth University, UK
53. Executive Dean's Scholarship, Faculty of Media & Communication, Bournemouth University, UK
54. Executive Dean's Scholarship, Faculty of Management, Bournemouth University, UK
55. Executive Dean's Scholarship, Faculty of Health & Social Sciences, Bournemouth University, UK
56. International Masters Scholarship, Edith Cowan University, Australia
57. PhD Fellowships in Organic Chemistry / Radiopharmaceutical Chemistry, University of Copenhagen, Denmark
58. Fulbright Visiting Scholar Program, USA
59. PhD Studentships, The Open University, UK
60. Global Undergraduate Exchange Program, American Indonesian Exchange Foundation, USA
61. Beasiswa Mahaghora - Beasiswa Kuliah D3 / S1 untuk Siswa SMA / SMK / Sederajat
62. Undergraduate Scholarships, Korea Advanced Institute of Science and Technology (KAIST)
63. Deakin Vice-Chancellor's International Scholarship, Deakin University, Australia
64. Research Training Program (RTP) Stipend Scholarship, Victoria University, Australia
65. Victoria University International Research Scholarship (VUIPRS), Australia
66. Graduate Research Scholarships, Victoria University, Australia
67. Curtin International Scholarships - CRL Merit Scholarship, Curtin University, Australia
68. MBA Scholarships, Brunel University, UK
69. University of Adelaide Global Leaders Scholarships, Australia
70. Master and PhD Scholarships, King Fahd University of Petroleum and Minerals, Saudi Arabia
71. MS/PhD Fellowships, King Abdullah University of Science and Technology (KAUST), Saudi Arabia
72. The Sadako Ogata Scholarship, University of London, UK
73. PhD Scholarships in Economics, CERGE-EI, Czech Republic
74. PhD Studentships, Department of Physics & Astronomy, University of Sussex, UK
75. Master Scholarships, Chulabhorn Graduate Institute & ASEAN Foundation, Thailand
76. Indonesia Global Leaders Scholarship, University of Queensland, Australia
77. Vice-Chancellor's PhD Scholarship (VCPS), RMIT University, Australia
78. Nieman-Berkman Klein Fellowship in Journalism Innovation, Harvard University, USA
79. Knight Visiting Nieman Fellowships, Harvard University, USA
80. Women in Social and Economic Research (WiSER) Scholarship, Curtin University, Australia
81. Oxford Centre for Islamic Studies Scholarships (OCISS), University of Oxford, UK
82. Robin & Nadine Wells Scholarship, St Cross College, University of Oxford, UK
83. St Cross Worldwide Scholarships, St Cross College, University of Oxford, UK
84. MPhil Scholarship in Humanities and Social Sciences, St Cross College, University of Oxford, UK
85. H el ene La Rue Scholarship in Music, University of Oxford, UK
86. Graduate Scholarship in Archaeology, St Cross College, University of Oxford, UK
87. RMIT International Excellence Scholarship, RMIT University, Australia
88. Hong Kong PhD Fellowship Scheme (HKPFS), University of Hong Kong
89. UNSW Art & Design International Scholarship, Australia
90. MSc International Management Scholarship, University of the West of England, UK
91. Master Scholarships for International Students,  rebro University, Sweden
92. Adelaide Scholarships International (ASI), University of Adelaide, Australia
93. UQ Graduate School Scholarships (UQGSS), University of Queensland, Australia
94. Bachelor of Medical Science Scholarship, Griffith University, Australia
95. Space Studies Scholarships, International Space University, France
96. Nanyang President's Graduate Scholarships (NPGS), Nanyang Technological University (NTU), Singapore
97. Master of Business Administration (MBA) Scholarships, University of the West of England, UK
98. UC College of Engineering International Scholarship, University of Canterbury, New Zealand

99. Merit International Postgraduate Scholarship, Edith Cowan University, Australia
100. Chevening Scholarships for Indonesian Students, UK
101. Full Fee Scholarships, University of Adelaide, Australia
102. UTS Science International Undergraduate Scholarship for Excellence, University of Technology Sydney, Australia
103. Civil and Structural Engineering PhD Scholarship, Curtin University, Australia
104. International Excellence Scholarship, Anglia Ruskin University, UK
105. University of Adelaide Matching Scholarships, Australia
106. Kamal Adham Fellowship for Television and Digital Journalism, The American University in Cairo, Egypt
107. Vice-Chancellors International High Achievers Scholarships, Charles Darwin University, Australia
108. Graduate Research Scholarships, University of Melbourne, Australia
109. International Undergraduate Excellence Scholarship, Bond University, Australia
110. MBS International Student Study Award, Massey University, New Zealand
111. Bond University Postgraduate Research Scholarship (BUPRS), Australia

Last updated: 10 September 2018