

**PATRICK RICKLES**  
**CURRICULUM VITAE**  
**December 2017**

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**EDUCATION**

- 2018 Ph.D (in progress; part-time), Geographic Information Science at University College London, London, UK  
*Thesis: Teaching Interdisciplinary Researchers Geographic Information Systems: A Suggested Approach*
- 2005 M.Sc, Geographic Information Science at University College London, London, UK  
*Thesis: Web GIS Profiles of Elevation and Vegetation Information of Madagascar*
- 2004 B.S., Applied Arts and Sciences at Rochester Institute of Technology, Rochester, NY  
*Concentrations in Computer Science Studies and Environment Management Science*
- 2000 Diploma, General Studies at Medina High School and University of Akron, Medina, OH

**PRESENT AND PREVIOUS ACADEMIC POSTS**

- 2014-2017 Research Associate, University College London, London, UK  
2010-2014 Research Assistant, University College London, London, UK

**OTHER ACADEMIC WORK**

- 2015-2017 Research Associate for Challenging RISK (EPSRC), University College London  
2014-2015 Research Assistant for Challenging RISK (EPSRC), University College London  
2015 Researcher for Cross Curricular Applications of Geographic Information Systems in Schools: to Aid and Enrich (IOE/UCL Strategic Partnership Teaching and Learning Fund), University College London  
2014-2015 Researcher for The Role of GIS in 21<sup>st</sup> Century Geography Education (IOE/UCL Strategic Partnership Teaching and Learning Fund), University College London  
2014 Researcher for Bridging the Gap: Fostering Cross-curricular Geoweb Technology Use in Education (IOE/UCL Strategic Partnership Teaching and Learning Fund), University College London  
2012-2013 Research Assistant for Experiencing Research Fieldwork through Suburban Tour-Guiding (EPSRC Inclusion Award), University College London  
2011-present Research Member of Extreme Citizen Science (EPSRC), University College London  
2010-2014 Research Assistant for Adaptable Suburbs (EPSRC), University College London

**PUBLICATIONS**

- 2017 Rickles, P., Ellul, C. & Haklay, M. (2017). A Suggested Framework and Guidelines for Learning GIS in Interdisciplinary Research. *Geo: Geography and Environment*, 4(2), 1-118. doi: 10.1002/geo2.46
- 2017 Rickles, P., Haklay, M., Ellul, C & Skarlatidou, A. (2017). Citizen Science with GIS&T. *The Geographic Information Science & Technology Body of Knowledge (3rd Quarter 2017 Edition)*, John P. Wilson (ed.). doi: 10.22224/gistbok/2017.3.5.
- 2017 Rickles, P. & Ellul, C. (2017). Innovations in and the changing landscape of geography education with Geographic Information Systems. *Journal of Geography in Higher Education*, 41(3), 305-309. doi: 10.1080/03098265.2017.1331210

- 2017 Rickles, P. (2017). The Future of Geospatial Education. GIS Professional Magazine, April 2017, Issue No. 75, 21-22. Retrieved from <https://www.gis-professional.com/content/article/the-future-of-geospatial-education>
- 2016 Lambert, R. C., Rickles, P., Belkow, T., & Woo, M. I. (2016). Barrios Altos: Riesgos Cotidianos y Desastres episódicos [Digital scholarly resource]. Retrieved from <http://arcg.is/1FkV5MD>.
- 2016 Verrucci, E., Perez-Fuentes, G., Rossetto, T., Bisby, L., Haklay, M., Rush, D., Rickles, P., Fagg, G. & Joffe, J. (2016). Digital engagement methods for earthquake and fire preparedness: a review. Natural Hazards, 1-22.
- 2016 Lambert, R. C., Rickles, P., & Espinoza, F. (2016). José Carlos Mariátegui: Riesgos Cotidianos y Desastres episódicos [Digital scholarly resource]. Retrieved from <http://arcg.is/1FkV5MD>.
- 2015 Fagg, G., Verucci, E., & Rickles, P. (2015). Exploring new ways of digital engagement: a study on how mobile mapping and applications can contribute to disaster preparedness. Proceedings of the GIS Research UK conference.
- 2014 Rickles, P. & Ellul, C. (2014). A Preliminary Investigation into the Challenges of Learning GIS in Interdisciplinary Research. Journal of Geography in Higher Education, 39(2), 226-236.
- 2014 Rickles, P. & Ellul, C. (2014). Identifying Important Geographic Information System Concepts in Interdisciplinary Research: An analysis of Google Scholar. Proceedings of the GIS Research UK conference.
- 2013 Griffiths, S., Dhanani, A., Ellul, C., Haklay, M., Jeevendrampillai, D., Nikolova, N., Rickles, P., & Vaughn, L. (2013). Using Space Syntax and Historical Land-Use Data to Interrogate Narratives of High Street 'Decline' in Two Greater London Suburbs. Journal of Space Syntax, 4(2), 221-241.
- 2013 Ellul, C., Tamash, N., Xian, F., Stuiver, J., & Rickles, P. (2013). Using Free and Open Source GIS to Automatically Create Standards-Based Spatial Metadata in Academia – First Investigations. OSGeo Journal, 13, 1-16.
- 2008 Thomas et al. (2008). Inventory of Onshore Federal Oil and Natural Gas Resources and Restrictions to Their Development: Phase III Inventory – Onshore United States. U.S. Departments of the Interior, Agriculture, and Energy, Washington, DC.

## GRANTS

### Funded

- 2017 Esri UK Funding for Learning GIS for Interdisciplinary Applications - £600 [Coordinator]
- 2014-2015 IOE/UCL Strategic Partnership Research Development Fund - £8,000 [Coordinator]
- 2012-2013 EPSRC Inclusion Awards - £10,616
- 2011-2013 Education Grant from Amazon Web Services - \$15,000 [Coordinator]

### Awaiting Decision

- 2017 H2020 SwafS-13-2017 – Tensegrity - €350,000 (€4,000,000 total) [Contributor to Work Packages]

### Not Funded

- 2016 ESRC (Response Mode) – Cross-curricular geospatial technologies to support innovation in education - £903,000 [Coordinator]
- 2016 UCL-EPSRC IAA - Sapelli Designer: Enabling Mobile Data Collection with Non-Literate Communities - £50,000 [Coordinator]
- 2016 UCL-EPSRC GCRF - Maximising the Impact of Sapelli - Mobile Data Collection to Improve Rural Mobility - £122,324 [Coordinator]
- 2016 H2020 SwafS-15-2016 - SCIENCE-CARe - €360,000 (€1,200,000 total) [Work Package Coordinator]
- 2016 UCL ChangeMakers Award – Learning GIS for Interdisciplinary Applications - £600 [Coordinator]

## **AWARDS AND HONOURS**

- 2017 UCL Esri Development Centre Student of the Year
- 2016 Chartered Geographer (GIS), Royal Geographical Society (with the Institute of British Geographers)
- 2016 APM - Project Management Qualification (PMQ) [IPMA Level D, SCQF Level 7], APM
- 2015 UK Winner of the Esri Young Scholars Competition
- 2014 Professional Certificate in Teaching and Learning in Higher and Professional Education
- 2014 Certificate in ArcGIS Online, Esri UK
- 2009 UK IT Industry Awards: Private Sector Project of the Year (Finalist)
- 2009 Association of Geographic Information Awards: Project of the Year (Highly Commended)
- 2007 Certificate in Systems Architecture, Esri
- 2007 Certificate in ArcGIS Server Configuration and Tuning for Oracle, Esri
- 2006 Peer Support Award, Advanced Resources International
- 2004 Certificate in Environmental Management Science, Rochester Institute of Technology
- 2003-2004 Dean's List, Rochester Institute of Technology

## **SEMINARS, TALKS AND INVITATION ONLY MEETINGS**

- 2017 Citizens Atlas of London Charette – Workshop on the collaboration of multiple crowdsourced mapping initiatives to create a compendium of evolving maps on what matters to the citizens of London. Panel Member. Organised by Livingmaps Network, London, UK.
- 2017 Improving Access and Use of Mapping Collections – Focus group discussion on organisational use of mapping products (both printed and digital) and how services might be improved to better support the needs of institutions. Panel Member. Organised by the British Library, London, UK.
- 2016 The Bartlett School for Environment, Energy & Resources – Invited to present as part of the lunchtime lectures on “Geographic Information Systems in Interdisciplinary Research”. Organised by The Bartlett, London, UK.
- 2016 Future of Education and Skills Across the Life course – Workshop on problems, objectives, and issues that future approaches to education will face and the skills to address them. Panel Member. Organised by Shared Intelligence and Kairos Futures, London, UK.
- 2015-2016 UCL Grand Challenges Research Summer School – An annual summer school designed to introduce research students to the Grand Challenges philosophy and help them develop the skills required to prepared research proposals that combine expertise from different academic disciplines. Presented on “Geographic information Systems in Interdisciplinary Research”. Organised by UCL Grand Challenges, London, UK.
- 2014 How to Change the World – A two-week programme at UCL that brings together engineering students from all disciplines to address some of the toughest global problems (part of UCL's Global Citizenship Programme). Presented on “Interdisciplinary Research and GIS – Changing the World”. Organised by UCL Engineering, London, UK.

## **CONFERENCES**

- 2017 Rickles, P. (2017). Learning and Applying Tools in Geography: Interdisciplinary Applications of GIS. Convened and participated in sponsored panel discussion (GISS, Geography Education) at the American Association of Geographers Annual International Conference, 2017, Boston, MA.
- 2017 Rickles, P. (2017). Learning and Applying Tools in Geography: Important Concepts in GIS. Convened sponsored panel discussion (GISS, Geography Education) at the American Association of Geographers Annual International Conference, 2017, Boston, MA.
- 2017 Rickles, P. (2017). Context Based Learning using ArcGIS Online: GIS Lessons for You. Presented at the American Association of Geographers Annual International Conference, 2017, Boston, MA.
- 2016 Rickles, P. & Ellul, C. (2016). The Effectiveness of Context Based Learning of GIS for Interdisciplinary Researchers. Presented at the Royal Geographical Society with IBG Annual International Conference, 2016, London, UK.

- 2016 Rickles, P. & Ellul, C. (2016). Learning GIS: Establishing the Nexus Between Disciplines. Convening sponsored session (GIScRG, HERG) at the Royal Geographical Society with IBG Annual International Conference 2016, London, UK.
- 2016 Rickles, P. & Haklay, M. (2016). GIS and Citizen Science: Combining Open Source and Esri Technologies. Presented by Muki Haklay at the Esri Education User Conference, San Diego, CA.
- 2016 Rickles, P. & Ellul, C. (2016). GIS Lessons for You. Poster presented at Interdisciplinary Learning and Teaching: Frameworks and Practice, Sheffield, UK.
- 2015 Rickles, P. & Ellul, C. (2015). Teaching GIS to Interdisciplinary Researchers – GIS Lessons for You. Presented at Royal Geographical Society with IBG Annual International Conference 2015, Exeter, UK.
- 2015 Rickles, P., Price, S., Davies, P., Treves, R., & Haklay, M. (2015). Fostering Cross-Curricular Applications of GIS in Schools. Presented at Royal Geographical Society with IBG Annual International Conference 2015, Exeter, UK.
- 2015 Rickles, P. & Ellul, C. (2015). GIS and the Anthropocene: Educational Perspectives. Convened sponsored session (GIScRG) at the Royal Geographical Society with IBG Annual International Conference 2015, London, UK.
- 2015 Rickles, P. & Fagg, G. (2015). Interdisciplinary GIS applications in Challenging RISK. Presented at Esri User Conference, San Diego, CA.
- 2015 Rickles, P & Ellul, C. (2015). GIS Lessons for You. Poster presented at Esri User Conference, San Diego, CA.
- 2015 Rickles, P & Ellul, C. (2015). Teaching GIS to Interdisciplinary Researchers – GIS Lessons for You. Presented at Esri Education User Conference, San Diego, CA.
- 2015 Rickles, P & Ellul, C. (2015). Teaching GIS to Interdisciplinary Researchers – GIS Lessons for You. Presented at Esri UK User Conference, London, UK.
- 2015 Rickles, P., Price, S., Davies, P., Treves, R., & Haklay, M. (2015). Fostering Cross-Curricular Applications of GIS in Schools. Presented at UCL Teaching and Learning Conference, London, UK.
- 2014 Rickles, P. & Ellul, C. (2014). Learning and Applying GIS in Interdisciplinary Research – From Theory to Practice. Presented at the Royal Geographical Society with IBG Annual International Conference 2014, London, UK.
- 2014 Rickles, P. & Ellul, C. (2014). GIS Education: Who Wins? Convened and chaired sponsored session (GIScRG, HERG) at the Royal Geographical Society with IBG Annual International Conference 2014, London, UK.
- 2014 Rickles, P. & Ellul, C. (2014). Identify Important Geographic Information System Concepts in Interdisciplinary Research: An analysis of Google Scholar. Presented at GIS Research UK conference, Glasgow, UK.
- 2014 Rickles, P. (2014). Teaching Through Research Leadership Program Workshop (sponsored by UNESCO). Workshop Participant hosted at the Centre for Research and Interdisciplinarity, Paris, France.
- 2014 Rickles, P. & Roick, O. (2014). Community Maps – Past, Present, and Future Developments. Presented at the London Citizen Cyberscience Summit, London, UK.
- 2013 Rickles, P. & Ellul, C. (2013). Potential Uptake of Geographic Information Systems: Reading Between the Lines. Presented at the Association of Interdisciplinary Studies Conference, Oxford, OH.

- 2013 Ellul, C., Tamash, N., Xian, F., Stuiver, J., & Rickles, P. (2013). Using Free and Open Source GIS to Automatically Create Standards-Based Spatial Metadata in Academia – First Investigations. Presented at FOSS4G, Nottingham, UK.
- 2013 Rickles, P. & Ellul, C. (2013). Potential Uptake of Geographic Information Systems: Reading Between the Lines. Presented at the Royal Geographical Society with IBG Annual International Conference, London, UK.
- 2013 Rickles, P. & Ellul, C. (2013). Using GIS in Interdisciplinary Research: Natural and Social Sciences Making the Case. Convened and chaired sponsored session (GIScRG) at the Royal Geographical Society with IBG Annual International Conference, London, UK.
- 2012 Rickles, P. & Ellul, C. (2012). Geography in Interdisciplinary Research: Threat or Opportunity? Convened and chaired sponsored session (GIScRG) at the Royal Geographical Society with IBG Annual International Conference, Edinburgh, UK.
- 2009 Rickles, P. (2009). Google Maps and Esri ArcGIS Server Corporate Mash-up: Hoax or Reality? Presented at the Association for Geographic Information Conference, Nottingham, UK.
- 2004 Goldowitz, J. & Rickles, P. (2004). Doing and Understanding: Installing Monitoring Wells to Understand Groundwater Hydraulics. Presented by Josh Goldowitz at the American Society for Engineering Education Convention, Salt Lake City, UT.

## **TEACHING EXPERIENCE**

### **University College London**

Department of Civil, Environmental and Geomatic Engineering: Mapping Science (Term 1, 2012 – lecture, examination); GIS Design (Term 2, 2014 – lecture; Term 2, 2016 – lecture, practical); Scenario 8 (Term 2, 2012-2014 & 2016 – lecture, practical)

Digital Humanities: Introduction to Digital Humanities (Term 1 & 2, 2015 – practical)

### **Institute of Education**

Curriculum, Pedagogy and Assessment: Issues of Concern in Education (Term 1, 2014 – online practical)

### **Bartlett School of Graduate Studies**

Development Planning Unit: Urban Environmental Planning and Management in Development (Term 1, 2012; Term 1 & 2, 2014; Term 1, 2015; Term 1 & 2, 2016 – lecture, practicals)

## **NON-ACADEMIC WORK**

- 2017-present Implementation Analyst, Department for Communities and Local Government, London, UK
- 2010-2012 Managing Director, Mapping Application Ltd., London, UK
- 2009-2010 Senior GIS Developer, WSP Group plc., London, UK
- 2008-2009 GIS Developer, WSP Group plc., London, UK
- 2007-2008 GIS Developer, Esri Inc., Vienna, VA
- 2005-2007 GIS Analyst, Advanced Resources International Inc., Arlington, VA
- 2005-2005 Research Assistant, Bartlett School of Graduate Studies, University College London, London, UK
- 2001-2001 Technology Specialist, Pitney Bowes Office Systems, Brecksville, OH

## **PROFESSIONAL MEMBERSHIPS**

- 2017-present Member, Operational Research Society
- 2017-present Member, Government Operational Research Service
- 2017-present Member, Government Science and Engineering Profession
- 2016-present Member, Association for Project Management
- 2016-present Reviewer, Applied Geography
- 2016-present Reviewer, Journal of Geography in Higher Education
- 2014-present Fellow, The Higher Education Academy

2011-present Member, Association for Geographical Information  
2010-present Member, Association for Computing Machinery  
2007-present Fellow, Royal Geographical Society (with the Institute of British Geographers)

### **GENERAL RESEARCH INTERESTS**

Geographic Information Science, Interdisciplinary Research, Educational Psychology, Continued Professional Development, Instructional Design, Operational Research

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**REFERENCES AVAILABLE UPON REQUEST**

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