PATRICK RICKLES
CURRICULUM VITAE
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EDUCATION

2019	PhD, Geographic Information Science at University College London, London, UK
	Can Learning Geographic Information Systems be Improved for Interdisciplinary Researchers? (Pass, Minor Corrections; Examiners: Scott Orford, David Maguire)
2005	MSc, Geographic Information Science at University College London, London, UK
	Web GIS Profiles of Elevation and Vegetation Information of Madagascar (Pass)
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 21st 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
2011-2017	Research Member of Extreme Citizen Science (EPSRC), University College London
2010-2014	Research Assistant for Adaptable Suburbs (EPSRC), University College London

PUBLICATIONS

2020   Ricker, B., Rickles, P., Fagg, G. & Haklay, M. (2020). Tool, toolmaker, and scientist: case study experiences using GIS in interdisciplinary research. Cartography and Geographic Information Science, 1-7. doi: 10.1080/15230406.2020.1748113

2019   Shook, E., Bowlick, F., Kemp, K., Ahlqvist, O., Carbajales, P., DiBiase, D., Kim, E., Lathrop, S., Ricker, B., Rickles, P., Rush, J., Swift, J. & Wang, S., (2019). Cyber Literacy for GIScience: Toward Formalizing Geospatial Computing Education. The Professional Geographer, 71(2), 221-238. doi: 10.1080/00330124.2018.1518720.

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), 1-18. 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] |

<u>Not Funded</u>

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

2020	AgilePM: Foundation and Practitioner, APMG International
2017	UCL Esri Development Centre Student of the Year
2016	Chartered Geographer (GIS), Royal Geographical Society (with IBG)
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 SPEAKING INVITATIONS

2022	Future of the North Sea: Implementing your Digital Roadmap - conference discussing how to navigate rapidly evolving digital landscapes, bringing together CEOs, CIOs, VPs of Operations & Production, Heads of IT, Engineering Solutions & Advanced Analytics Directors and Asset Managers, with investors and innovators. Panel Member. Organised by Chameleon Events, Aberdeen, UK
2022	Digital Fluidity Across the Energy Lifecycle - Workshop to connect different industries with challenges in digital fluidity, share challenges and forward strategies and identify specific cross-industry collaborations. Invited Participant. Organised by the Nuclear Decommissioning Authority and Offshore Energies UK, Aberdeen, UK
2020	Geography Really Matters – Annual Conference (held virtually). Presented on "Geography in Government". Keynote Speaker. Organised by the Geographical Association, Guildford, UK. https://www.youtube.com/watch?v=LUoTK1DQJYk

2020	Policy and Application of Geography Research: Policy Summit – Day conference with panel session on "Getting your message across to those that matter" – effective communication to influence government policy with Geography. Panel Member. Organised by King's College London, London, UK.
2019	Geography in Practice – Seminar at UCL to discuss with Geography students the variety of career options in Geography and support networks available to them. Panel Member. Organised by the Royal Geographical Society with IBG, London, UK.
2019	Policy and Application of Geography Research: Policy Summit – Day conference with panel session on "Getting your message across to those that matter" – effective communication to influence government policy with Geography. Panel Member. Organised by King's College London, London, UK.
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

2022   Rickles, P. (2022). Digital Skills and Transformation at the North Sea Transition Authority. Presented at the Society for Professional Data Managers Annual Conference, 2022, Online.

2020   Rickles, P. (2020). Diversity and Inclusion: Government Geography Profession. Presented and participated in panel discussion at the Geography in Government Annual Conference, 2020, Online.

2019   Rickles, P. (2019). Networking Opportunities: Government Geography Profession. Convened workshop at the Geography in Government Annual Conference, 2019, London, UK.

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
<u>University College London</u>
- 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)

<u>Institute of Education</u>
- Curriculum, Pedagogy and Assessment: Issues of Concern in Education (Term 1, 2014 – online practical)

<u>Bartlett School of Graduate Studies</u>
- 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
2020-present   Head of Digital Skills and Innovation, North Sea Transition Authority, London, UK
2018-2020   Head of Business Intelligence and Spatial Data Science, HMCTS, London, UK
2017-2018   Implementation Analyst, DLUHC, 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, UCL, London, UK
2001-2001   Technology Specialist, Pitney Bowes Office Systems, Brecksville, OH

PROFESSIONAL MEMBERSHIPS
2021-present   Member, the BCS, the Chartered IT Institute
2019-present   Co-Chair, Government Analysis Function - Diversity and Inclusion
2018-present   Deputy, Government Geography Profession
2018-present   Reviewer, British Journal of Educational Technology
2018-present   Reviewer, UCGIS GIS&T Body of Knowledge
2017-present   Member, Government Science and Engineering
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
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, Community Engagement, Urban Planning, Built Environment, Smart Cities

REFERENCES AVAILABLE UPON REQUEST