

Dr Antti Lyyra

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RESEARCH INTERESTS

Artificial intelligence, robotics, virtual, and augmented reality
Digital transformation, social and organisational change
Product and industry architectures, value chains, and innovation dynamics
Ontology, epistemology and the philosophy of information and computation

EDUCATION AND EMPLOYMENT

Education

- 2018 PhD in Information Systems and Innovation
Department of Management, London School of Economics
Thesis: From components to compositions: (De-)construction of computer-controlled behaviour with the Robot Operating System
Supervisor: Dr Carsten Sørensen
- Research-related summer schools attended:*
The Regulation of Robotics in Europe: Legal, Ethical and Economic, Implications, summer school in Pisa, Italy (2016)
euRathlon/SHERPA summer school on Field Robotics in Oulu, Finland (2015)
- 2008 B.Sc. and M.Sc. in Management and Information Systems
Helsinki School of Economics (Aalto University School of Business)
Major: Information system science
Minors: Management accounting, marketing and Spanish
Thesis: Project planning and the standardisation of planning processes
Exchange Year in an MBA programme in the Instituto Tecnológico Autónomo de México, Mexico City, Mexico

Academic employment

- 2021- Fellow in Management, Information Systems and Innovation, the London School of Economics and Political Science
- 2018-2019 Fellow in Management, Information Systems and Innovation, the London School of Economics and Political Science
- 2018 Graduate Teaching Assistant, London School of Economics
- 2015-2016 Associate Examiner, University of London (UoL), External Programme

Professional employment

2019-2021	Lead Strategy, Market, and Operations Analyst, Oxbotica, Oxford, UK
2012-2013	Technology and Management Consultant, Deloitte, London, UK
2008-2012	Technology and Management Consultant, Accenture, Helsinki, Finland
2006-2008	Information Systems Consultant, Automaster (acquired by CDK Global Services), Helsinki, Finland

PUBLICATIONS AND CONFERENCE PAPERS

Lyyra, A.K., Koskinen, K.M., Sørensen C., and T. J. Marion. (2022) Tethered Architecture in Cyber-Physical System Development: The Case of Tesla's Autopilot System. *The 82nd Annual Meeting of the Academy of Management*.

Koskinen, K., Lyyra, A., Mallat, N., and Tuunainen, V. K. (2019). Trust and risky technologies: Aligning and coping with Tesla Autopilot. *HICCS 2019, the 52nd Hawaii International Conference on System Sciences*.

Lyyra, A., Koskinen, K. and Sørensen, C. (2018). Design after Manufacturing: Case Tesla Model S. *The 25th IPDMC: Innovation and Product Development Management Conference*.

Lyyra, A. and Koskinen, K. (2016). The Ambivalent Characteristics of Connected, Digitised Products: Case Tesla Model S. *The 7th Scandinavian Conference on Information Systems, in Nordic Contributions in IS Research* (pp. 57-69). Springer International Publishing.

Lyyra, A.K. (2017). Opinion: Exploring Watson. *iSChannel*, 11(1): 4-6.

Lyyra, A. (2015). Towards Interaction Machines. *iSChannel*, 9(2): 5-12.

Other publications and media

Lyyra, A.K. and Koskinen, K.M. (2017) With software updates, Tesla upends product life cycle in the car industry, in the *LSE Business Review*

Road death puts the brakes on self- driving cars as flaws are exposed, in the *LSE Research Highlights, 2016*

Lyyra, A.K. (2016) Advances in robotics will only get you so far: context is crucial in the *LSE Department of Management blog*.

PhD Thesis

Lyyra, A.K., (2018). From components to compositions: (De-)construction of computer-controlled behaviour with the Robot Operating System. PhD thesis, The London School of Economics and Political Science (LSE). LSE Theses Online

GRANTS AND AWARDS

Research grants

2018	Research and Development Management Association (RADMA), travel grant
2017	Emil Aaltosen Säätiö, young researcher's grant for PhD research
2016	Emil Aaltosen Säätiö, young researcher's grant for PhD research
2015	Emil Aaltosen Säätiö, young researcher's grant for PhD research
2014	London School of Economics, Research Studentship grant
2014	Liikesivistysrahasto, PhD studentship grant

Professional awards

2011	Client: A certificate of achievement for extraordinary performance and contribution in the post-merger integration programme
2010	Accenture: Team Spirit and People Developer award
2009	Accenture: Team Spirit and People Developer award

CONFERENCE PRESENTATIONS AND GUEST LECTURES

Lyyra, A.K. (2020) Automation and the Changing Nature of Work, a guest lecture at *the Luiss Business School for the course of Strategic Management and Digital Business Transformation*.

Lyyra, A.K. (2020) Self-driving Vehicles and the Future of Transportation, a guest lecture at *Hult International Business School for the course of Digital Strategy and Transformation*.

Lyyra, A.K., Koskinen, K.M, Sørensen C. (2019) Towards a Process Model for Digital and Data Driven Product Development: The Case of the Tesla Model S Autopilot, presented at *a special issue workshop for the Journal of Product Innovation Management*.

Lyyra, A.K. (2019) Self-Driving Vehicles and the Future of Transportation, a guest lecture at *Hult International Business School for the course of Digital Strategy and Transformation*.

Lyyra, A.K. (2019) From components to compositions: (De-)construction of computer-controlled behaviour with the Robot Operating System, presented at the *LSE Department of Management research seminar*

Lyyra, A.K. (2018) The Future of Work: On Rules, Rule-Makers and Rules Takers, a guest lecture at the *London School of Economics and Political Science in the course of Organisational Behaviour and Leadership*.

Lyyra, A.K. (2017) The Language of Singularity: Watson or Watsons and why would it matter?, presented at the *Anthorobotics Workshop at the University of Edinburgh*.

Lyyra, A.K. (2016) The (De-)composition of Computer Controlled Behaviour: Case Robot Operating System, presented at *Aalto University Business School research seminar*.

Lyyra, A.K. (2016) The Ambivalent Characteristics of Connected, Digitised Products: Case Tesla Model S, presented at the *International Summer School on the Regulation of Robotics in Pisa*.

Lyyra, A.K. (2015) Do Androids Dream of Infrastructures? A Grounded Exploration on the Challenges of the Delegation of Agency, presented at the *4th Innovation in Information Infrastructures (III) Workshop*.

Lyyra, A.K. (2015) Robotics and Socio-Technical Arrangements, presented at *King's College London in a Centre for Robotics Research (CORE) seminar*.

Lyyra, A.K. (2014) Towards Interaction Machines, presented at the *Quadrangular Conference on Technology, Organisations and Society*.

TEACHING QUALIFICATIONS AND EXPERIENCE

Average teaching evaluation score: 4.7/5

2019 Post-Graduate Teaching Certificate in Higher Education (PGCertHE)
Fellow of The UK Higher Education Academy/AdvanceHE (FHEA, D2,
Credential ID PR178162)

2021- London School of Economics: MSc in Information Systems and Digital
Innovation
- Innovation and information systems: Concepts and perspectives
- Data Governance: Privacy, openness and transparency
- Research Design for Studies in Digital Innovation
- Study Skills and Research Methods
- MSc dissertation supervision

2018-2019 London School of Economics: MSc in Information Systems and Digital
Innovation and Global Master's in Management
- Innovation and information systems: Concepts and perspectives
- Data Governance: Privacy, openness and transparency (Examiner)
- Qualitative analysis in management
- Innovating organisational information technology

2018 London School of Economics: MSc in Information Systems and BSc in
Management
- Information systems (BSc)
- Organisational behaviour and leadership (BSc)
- Bargaining and negotiation (Summer School)
- MSc dissertation guidance and support (MSc)

2015-2016 University of London, external programme
- Software Engineering: Theory & Application (Examiner)

Other

2020- A treasurer and trustee of the Finnish Saturday School in Oxford. The school offers Finnish language immersion for pre-school and Key Stage 1 and 2 aged children.

SERVICE TO PROFESSION

Reviewer for

2022 The Annual Meeting of the Academy of Management (AOM)
2015-2021 The European Conference of Information Systems (ECIS)
2017 Wirtschaftsinformatik (WI)
2016-2018 The International Conference of Information Systems (ICIS)

Conference organiser

2017 The 13th Social Study of ICT Open Research Forum at LSE
2014 The 10th Social Study of ICT Open Research Forum at LSE
2014-2017 Information System Research Forum seminar series in the Department of Management

LANGUAGES

Finnish (speaking: native, reading: native, writing: native)
English (speaking: fluent, reading: fluent, writing: fluent)
Spanish (speaking: conversational, reading: good, writing: intermediate)

DIGITAL SKILLS

Python, Webscraper, relational databases (MS SQL Server, MySQL)
MS Office, Atlas.ti, NVIVO
SAP R/3, logistics and finance modules