

## Samuli Reijula (né Pöyhönen)

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### PERSONAL INFORMATION

Date & Place of birth: 1980, Kuopio, Finland  
Citizenship: Finland  
Place of Residence: Helsinki, Finland  
Orcid: 0000-0001-6968-5819

### CURRENT POSITION

**University lecturer** (8/2019 →), Theoretical philosophy, University of Helsinki  
**University researcher**, Philosophy, University of Tampere. Academy of Finland research project *Social and Cognitive Diversity in Science*, #316695  
**Visiting researcher**, TINT / Practical Philosophy, University of Helsinki

### PREVIOUS AP- POINTMENTS

**Academy of Finland Postdoctoral Researcher.** Social and Moral Philosophy, University of Helsinki. Sep 2015–Aug 2018  
**Visiting researcher** (postdoc pool). Adaptive Rationality and Cognition´ Max Planck Institute for Human Development, Berlin. Jul 2016–Jun 2017  
**Part-time lecturer** (1-2 courses / academic year). Cognitive science, Faculty of Behavioural Sciences, University of Helsinki. 2009–2015  
**Postdoctoral researcher.** TINT, Academy of Finland Centre of Excellence in the Philosophy of the Social Sciences, University of Helsinki. 2013–2015  
**Doctoral student.** Social and Moral Philosophy, University of Helsinki / Finnish doctoral programme of Philosophy. 2008–2012  
**Visiting doctoral student.** Berlin School of Mind and Brain, Humboldt University. (Academic host: Prof. Michael Pauen). 4–9/2012  
**Visiting doctoral student.** Philosophy, University of Edinburgh (Academic host: Prof. Andy Clark). 2–5/2010

### EDUCATION

**Doctor of Social Sciences.** University of Helsinki, Social and Moral Philosophy. 3.9.2013 Dissertation: *Chasing Phenomena – Studies on classification and conceptual change in the human sciences*. Advisor: Petri Ylikoski; Opponent: Carl Craver; Grade: Laudatur  
**Master of Social Sciences.** University of Helsinki, Social and Moral Philosophy. 12.12.2007  
**Cognitive Science (MA program),** University of Helsinki. 2007 →  
**Kuopion Lyseo high school** (Kuopion Lyseon Lukio) 2000. (6\*Laudatur)

#### Professional training

7/2018: *European Summer School for Scientometrics*. University of Vienna, 3 ECTS  
6/2013: *Summer Institute on Bounded Rationality*. Max Planck Institute for Human Development  
7/2010: *Second International Summer School in Cognitive Sciences and Semantics: Analytic Pragmatism, Semantic Inferentialism, and Logical Expressivism*. University of Latvia

### INDIVIDUAL PROJECTS & GRANTS

2018: Personal grant for postdoctoral research: “Institutional epistemology”, Emil Aaltonen Foundation, 31500e  
2015: Postdoctoral researcher project, The Academy of Finland, 247284e (2015–2018)  
2015: Postdoc-pool mobility grant for research at MPI Berlin. Kone Foundation, 16000e. (2015–2016)  
2009: Finnish Doctoral Programme of Philosophy. Four-year funding for doctoral research in philosophy. (2009–2012)  
2008: Individual 3-year grant for doctoral research in philosophy. Finnish Cultural Foundation

## LANGUAGES

Native language: Finnish  
English (\*\*\*); German (\*\*); Swedish, French (\*)  
Python (\*\*\*); R, Javascript, Java, PHP, SQL (\*\*)

## PUBLICATIONS

- Reijula, Samuli and Jaakko Kuorikoski (forthcoming). "Modeling epistemic communities", in M. Fricker, P.J. Graham, D. Henderson, N. Pedersen, J. Wyatt (eds.) *The Routledge Handbook of Social Epistemology*
- Marchionni, Caterina and Samuli Reijula (2019). "What is mechanistic evidence, and why do we need it for evidence-based policy?" *Studies in History and Philosophy of Science A*, 73, 54-63  
(equal contributions from both authors)
- Kyanoush Seyed Yahosseini, Samuli Reijula, Lucas Molleman and Mehdi Moussaïd (2018). "Social information can undermine individual performance in exploration-exploitation tasks." *COGSCI 2018: 40th Annual Conference of the Cognitive Science Society*, 2470-2475
- Reijula, Samuli; Timo Ehrig; Konstantinos Katsikopoulos; Jaakko Kuorikoski; Shyam Sunder (2018). "Nudge, Boost or Design? Limitations of behavioral policy under social interaction." *The Journal of Behavioral Economics for Policy*, 2(1), 99-105
- Pöyhönen<sup>1</sup>, Samuli (2017). "Value of cognitive diversity in science". *Synthese*, 194, 4519-4540
- Reijula, Samuli (2017). "How could a rational analysis model explain?" *COGSCI 2017, Proceedings of the 39th Annual Conference of the Cognitive Science Society*, 2975–2980
- Pöyhönen, Samuli (2016). *Psykologia tieteenalana ja asiakastyönä* (Vesa Talvitie, Arkipsykologiasta aivotutkimukseen – kysymyksiä psykologian filosofiasta). *Niin & Näin* 3/16,132-134
- Pöyhönen, Samuli (2015). "Memory as a cognitive kind. Brains, remembering dyads and exograms", in C. Kendig (ed.), *Natural Kinds and Classification in Scientific Practice*. London: Pickering & Chatto, 145–156
- Kuorikoski, Jaakko and Samuli Reijula (forthcoming). "Kokeellinen yhteiskuntatiede" (Experimental social science), in Kaidesoja, T; Kankainen, T; and Ylikoski, P (eds.) *Syistä Selityksiin - Kausaliteetti ja selittäminen yhteiskuntatieteissä*
- Ylikoski, Petri and Samuli Pöyhönen (2015). "Addiction-as-a-kind hypothesis", *International Journal of Addiction and Drug Research*, 4(1): 21–25
- Pöyhönen, Samuli (2014). "Explanatory power of extended cognition", *Philosophical Psychology*, 27: 735–759
- Pöyhönen, Samuli (2014). "Intentional concepts in cognitive neuroscience", *Philosophical Explorations*, 17: 93–109
- Pöyhönen, Samuli (2014). "Natural kinds and concept eliminativism", in V. Karakostas and D. Dieks (eds.), *EPSA11 Perspectives and Foundational Problems in Philosophy of Science*, The European Philosophy of Science Association Proceedings 2: 167–179
- Kuorikoski, Jaakko and Samuli Pöyhönen (2013). "Understanding non-modular functionality. Lessons from genetic algorithms", *Philosophy of Science*, 80: 637–649  
(equal contributions from both authors)
- Pöyhönen, Samuli (2013). "Carving the mind by its joints – Natural kinds and social construction in psychiatry", in Milkowski, M. and Talmont-Kaminsky, K. (eds.) *Regarding Mind, Naturally*. Cambridge Scholars Publishing, pp. 30–48
- Kuorikoski, Jaakko and Pöyhönen, Samuli (2013). "Evolution and Modularity: The limits of mechanistic explanation", *COGSCI 2013, Proceedings of the annual meeting of the cognitive science society*, 840–845
- Kuorikoski, Jaakko and Samuli Pöyhönen (2012). "Looping kinds and social mechanisms", *Sociological Theory*, 30(3): 187–205

<sup>1</sup>Last name changed to Reijula from Pöyhönen in 2016

(equal contributions)

Rusanen, Anna-Mari and Samuli Pöyhönen (2012). "Concepts in change", *Science & Education*, 22: 1389–1403

(equal contributions)

## TEACHING

### Academic teaching experience

2018: "Social research and the behavioral sciences", University of Tampere. (w/ Jaakko Kuorikoski, 5cr)

2017: "Philosophy of the Social Sciences" (KF270), intermediate level course. University of Helsinki, (w/ Magdalena Malecka, 5 study credits)

2015, 2016, 2017: "Introduction to argumentation and philosophy of social science", Online course. University of Helsinki / Open University. (5 cr)

2014, 2015, 2016: "Philosophy of the Social Sciences." University of Helsinki (w/ Caterina Marchionni, 5 cr)

2015: "Explaining the Mind." Cognitive science, University of Helsinki (5 cr).

2013, 2014: "Philosophy of Psychology." Cognitive science, University of Helsinki. (5 cr)

2014: "Cognitive science of science." University of Helsinki. (w/ Miles MacLeod and Tuukka Kadesoja, 5 cr)

2013, 2014: "Philosophical thinking – methods for philosophers." University of Helsinki. (w/ Pekka Mäkelä & Jaakko Kuorikoski, 5 cr)

2012: "Scientific argumentation and explanation." Online course, cognitive science, University Helsinki / Open University Finland. (5 cr)

2012, 2013: "Argumentation theory for social scientists." Faculty of the social sciences, University of Helsinki. (w/ Pekka Mäkelä & Jaakko Kuorikoski, 5 cr)

2008–2012 (\*5): "Scientific argumentation and explanation." Cognitive Science, University of Helsinki. (5 cr)

### Training in university pedagogy

UP 5: "Development of teaching and practical training." 5 ECTS. University of Helsinki, 2015

## OTHER ACADEMIC MERITS

### Thesis supervision

Supervisor, pro gradu in practical philosophy. Aaltonen. (2018)

Supervisor, pro gradu in practical philosophy. Hartonen. (2018-2019)

Supervisor, BA thesis in social and moral philosophy. Nuotio. (2018)

Second supervisor, doctoral thesis in social and moral philosophy. Teräväinen. (2016 →)

Second supervisor, pro gradu in theoretical philosophy. Kuokkanen. (2015–2018)

Second supervisor, pro gradu in theoretical philosophy. Mäki-Tuuri. (2014)

### Invited lectures

8/2019: "Role of AI in scientific research." Panel discussion, Methods Festival, Tampere University. (Chair)

5/2019: "Extrapolative inference and policy making." Intervention evaluation and field experiments - BeSP (Behaviour Change Science and Policy) Symposium Series. Helsinki. (Invited speaker)

3/2019: "What has modeling taught us about cognitive diversity?" Agent-based models in philosophy: Prospects and Limitations. Bochum, Germany. (Keynote lecture)

11/2018: "Social kinds in the making – construction or recruitment?" A workshop on Ron Mallon's "The Construction of Human Kinds", University of Copenhagen. (Invited speaker)

10/2018: "Why aren't we all addicts", Concept Formation in the Natural and Social

Sciences, University of Zurich. (Invited speaker)

2/2018: “The philosophy of computational social science”, University of Tampere. (Invited lecture)

10/2017: AI and Philosophy, Finnish Philosophical association and Cognitive Science joint event: AI and Philosophy. University of Helsinki. (Chair and presenter)

10/2017: “Research funding for the best – or to maverick scientists? Models and simulations as research tools in science studies.” (in Finnish) Edistyksen Päivät, Helsinki. (Public lecture)

1/2017: “What, when and how do rational analysis models explain?”, MCMP Munich. (Invited presentation)

1/2016: “Classification, knowledge, identity” (in Finnish). Mikkeli Academy. (Public lecture)

11/2015: “Social heuristics”, Action, cognition and sociology (graduate course), University of Turku. (Invited lecture)

9/2015: “Will psychiatry become clinical neuroscience?” Philosophy of Psychiatry Summer Symposium, University of Helsinki. (Invited presentation)

### **Organized events**

AID forum event: Machine learning, modeling the mind and the future of humanities and social sciences. 12/2015. University of Helsinki

CLMPS – 15th Congress of Logic, Methodology and Philosophy of Science, Helsinki. Webmaster. 8/2015

EPSA13 – 4th conference of the European Philosophy of Science Association, Helsinki. Local organizing committee. 8/2013

Models and Simulations 5, Helsinki. Local organizing committee. 6/2012

**Peer review** Peer review for the British Journal for the Philosophy of Science; Philosophical Quarterly; Synthese; Studies in History and Philosophy of Science, Erkenntnis; European Journal for Philosophy of Science; Philosophical Psychology; Theory & Psychology; International Studies in the Philosophy of Science; Journal of Social Ontology

### **Positions of trust**

Department council member. Political and Economic Studies, University of Helsinki. 1/2014–12/2017

Member of the guiding committee for AID (Agora of Interdisciplinary Debate), University of Helsinki. 9/2013–Present

### **Media**

Interview on looping effects of classifications in the social sciences, in Helsingin Sanomat (the national newspaper) 10/2014