

## Samuli Reijula (né Pöyhönen)

Theoretical Philosophy, PL 24  
00014 University of Helsinki, Finland  
<https://www.samulireijula.net/>

samuli.reijula@helsinki.fi

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| <b>PERSONAL INFORMATION</b>  | Date & Place of birth: 1980, Kuopio, Finland<br>Citizenship: Finland<br>Place of Residence: Helsinki, Finland<br>Orcid: 0000-0001-6968-5819  |
| <b>EXPERTISE</b>             | <b>Areas of expertise:</b> Philosophy of science (general, psychology, cognitive science, social science); Social epistemology of science; Collective intelligence; Philosophy of evidence-based policy<br><b>Areas of competence:</b> Philosophy of mind; Science of science; Metaphysics of science; Conceptual change   |
| <b>EDUCATION</b>             | <b>Docent</b> (habilitation) in Practical Philosophy. University of Helsinki, Faculty of Social Sciences, 1/2020.<br><b>Doctor of Social Sciences.</b> University of Helsinki, Social and Moral Philosophy, 9/2013.<br>Dissertation: <i>Chasing Phenomena – Studies on classification and conceptual change in the human sciences.</i><br>Advisor: Petri Ylikoski; Opponent: Carl Craver; Grade: Laudatur<br><b>Master of Social Sciences.</b> University of Helsinki, Social and Moral Philosophy, 12/2007.<br><b>Cognitive Science (MA program),</b> University of Helsinki. 2007 →<br><b>Kuopion Lyseo high school</b> (Kuopion Lyseon Lukio) 2000. (6*Laudatur)<br><br><b>Professional training</b><br>7/2018: <i>European Summer School for Scientometrics.</i> University of Vienna, 3 ECTS<br>6/2013: <i>Summer Institute on Bounded Rationality.</i> Max Planck Institute for Human Development<br>7/2010: <i>Second International Summer School in Cognitive Sciences and Semantics:</i> Analytic Pragmatism, Semantic Inferentialism, and Logical Expressivism. University of Latvia |
| <b>CURRENT POSITION</b>      | <b>Academy research fellow</b> , 2020-2025. University of Helsinki / Academy of Finland.<br><b>University lecturer</b> <sup>1</sup> , 2019 →, Theoretical philosophy, University of Helsinki (on research leave)   |
| <b>PREVIOUS APPOINTMENTS</b> | <b>University researcher</b> , 2018-2019, Philosophy, University of Tampere. Academy of Finland research project <i>Social and Cognitive Diversity in Science</i> , #316695<br><b>Academy of Finland Postdoctoral Researcher.</b> Social and Moral Philosophy, University of Helsinki. Sep 2015–Aug 2018<br><b>Part-time lecturer</b> (1-2 courses / academic year). Cognitive science, Faculty of Behavioural Sciences, University of Helsinki. 2009–2015<br><b>Postdoctoral researcher.</b> TINT, Academy of Finland Centre of Excellence in the Philosophy of the Social Sciences, University of Helsinki. 2013–2015<br><b>Doctoral student.</b> Social and Moral Philosophy, University of Helsinki / Finnish doctoral programme of Philosophy. 2008–2012  |
| <b>VISITING POSITIONS</b>    | <b>Visiting researcher.</b> Center for Formal Epistemology and the Institute for Complex Social Dynamics, Carnegie Mellon University. Oct 2024 – Nov 2024  |

<sup>1</sup>Roughly equivalent to associate professor, permanent position, non-tenure-track

**Visiting postdoc.** Adaptive Rationality and Cognition, Max Planck Institute for Human Development, Berlin. Jul 2016–Jun 2017  
**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

## GRANTS & AWARDS

2022: Helsinki Institute for Social Sciences and Humanities Catalyst Grant 2023. Cognitive Architectures of Science workshop. 9000e.  
 2021: Faculty of Arts award 2021, University of Helsinki (in Finnish: "Kannustus-palkkio tunnustuksena erityisen ansiokkaasta työstä yliopiston ja yhteiskunnan hyväksi"), 3000e.  
 2021: Nordic Network for the Science of Science. A workshop series funded by the Nordic research councils in the Humanities and Social Sciences (NOS-HS). PI. Co-applicants: Analytis, Habinek, 43000e  
 2020: Academy Research Fellow 2020–2025. "Modeling the republic of science: Collaborative problem solving and collective rationality in scientific inquiry". The Academy of Finland, #332686, 438 874e  
 2018: Personal grant for postdoctoral research: "Institutional epistemology", Emil Aaltonen Foundation, 31500e  
 2015: Postdoctoral Researcher project 2015–2018, The Academy of Finland, #287388, 247284e  
 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, Spark (★★)

## PUBLICATIONS

Kuorikoski, Jaakko and Samuli Reijula (2025). Virheellinen ymmärrys rekrytoinnin objektiivisuudesta uhkaa tiedettä. *Tieteessä Tapahtuu* 2/2025, 34-37  
 Reijula, Samuli (2024). "Ongelmanratkaisua moniäänisissä ryhmissä" (Problem solving in diverse groups), *Tietoasiantuntija* 5/2024.  
 Reijula, Samuli and Sofia Blanco Sequeiros (forthcoming). "Persistent evidential discordance", *British Journal for the Philosophy of Science*.  
 Jonard, Nicolas, Samuli Reijula and Luigi Marengo (2024). "Group problem solving: Diversity versus diffusion", in L. K. Samuelson, S. L. Frank, M. Toneva, A. Mackey, & E. Hazeltine (Eds.), *Proceedings of the 46th Annual Conference of the Cognitive Science Society*  
 Hormio, Säde and Samuli Reijula. (2024). "Ideal Institutional Epistemology", *Social Epistemology Review and Reply Collective*.  
 Vesterinen, Tuomas and Samuli Reijula. (2024). "Tieteiden filosofi: Ian Hacking (1936–2023)", *Niin & Näin*, 24, 59-63  
 Hormio, Säde and Samuli Reijula (2023). "Universities as anarchic knowledge institutions", *Social Epistemology*.  
 Reijula, Samuli and Ralph Hertwig (2023). "Self-nudging and the citizen choice architect". In Sunstein & Reisch (eds.) *Research Handbook on Nudges and Society*, 263-291. (Originally published 2022 in *Behavioral Public Policy*)  
 Rolin, Kristina, Inkeri Koskinen, Jaakko Kuorikoski and Samuli Reijula (2023). "Social and cognitive diversity in science: introduction", *Synthese* 202:36.  
 Pesonen, Renne and Samuli Reijula (2023). "Älykästä paskapuhetta - tekoälymallit

- ihmisällyn peilinä (Fluent bullshit - AI models as a mirror to human intelligence)", *Tieteessä Tapahtuu*, 3/2023.
- Reijula, Samuli, Jaakko Kuorikoski, Miles MacLeod (2023). "The division of cognitive labor and the structure of interdisciplinary problems", *Synthese* 201:214.
- Reijula, Samuli and Jaakko Kuorikoski (2022). "Modeling cognitive diversity in group problem solving", *COGSCI 2022: 44th Annual Conference of the Cognitive Science Society*.
- Reijula, Samuli (2022). "Terapeuttinen puhe on kaikkialla" (Therapeutic discourse is everywhere; book review), *Tieteessä Tapahtuu*, 1/2022.
- Reijula, Samuli and Ralph Hertwig (2022). "Self-nudging and the citizen choice architect." *Behavioral Public Policy*, 6(1), 119–149.
- Reijula, Samuli and Jaakko Kuorikoski (2021). "The diversity-ability trade-off in scientific problem solving." *Philosophy of Science*, 88, 894–905.
- Reijula, Samuli (2021). "Social categories in the making: construction or recruitment?" *Synthese*, 199, 12315–12330.
- Aydinonat, Emrah, Samuli Reijula and Petri Ylikoski (2021). "Argumentative landscapes: the functions of models in social epistemology." *Synthese*, 199, 369–395.
- Reijula, Samuli (2021). "Ian Hacking", *Routledge Encyclopedia of Philosophy Online*.
- Reijula, Samuli and Petri Ylikoski (2020). "Tutkijan vapaus institutionaalisen tietoteorian näkökulmasta", in ed. K. Ekholm, E. Väliaverronen: *Tieteen vapaus & tutkijan sananvapaus*. Vastapaino, Finland.
- Kuorikoski, Jaakko, Samuli Reijula and Susanne Uusitalo (2020). "Neuroscience of autonomy and paternalistic policies." In Harbecke, J. & Herrmann-Pillath, C. (eds.). *Social Neuroeconomics : Mechanistic Integration of the Neurosciences and the Social Sciences*. London: Routledge, 221–235.
- Reijula, Samuli and Jaakko Kuorikoski (2019). "Modeling epistemic communities", in M. Fricker, P.J. Graham, D. Henderson, N. Pedersen, J. Wyatt (eds.) *The Routledge Handbook of Social Epistemology*, 240–249.
- 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>2</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.)

<sup>2</sup>Last name changed to Reijula from Pöyhönen in 2016

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, 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.  
(equal contributions)

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

- INVITED TALKS**
- 11/2024: "Modeling cognitive diversity in group problem solving", Pittsburgh Formal Epistemology Workshop, Carnegie Mellon University
  - 09/2024: "Sivistysliopiston idea" (The idea of Bildung-university). Guest talk @ the University board Bildung working group, University of Helsinki
  - 02/2024: "Taking the power back? Nudging, self-nudging, and internal conflict." REPIN/Centre de recherches historiques, Ecole des Hautes Etudes en Sciences Sociales, Paris.
  - 12/2023: "The many functions of diversity in scientific problem solving." Workshop on Computational Models in Social Epistemology. Ruhr University Bochum.
  - 12/2023: "Self-nudging and the citizen choice architect." Mini-conference & book launch - Research Handbook on Nudge and Society. El-Erian Institute, University of Cambridge. (w/ Ralph Hertwig)
  - 12/2023: "The division of cognitive labor and the structure of interdisciplinary problems." The Theoretical Foundations of Interdisciplinarity Symposium, Collegium for Advanced Studies, University of Helsinki.
  - 11/2023: "Self-nudging and the citizen choice architect." Design matters. Conference on Emerging Technologies and Behavioural-driven Designs. Erasmus University, Rotterdam.
  - 12/2023: "The division of cognitive labor and the structure of interdisciplinary problems." Strategic Organization Design, University of Southern Denmark.
  - 7/2023: "The division of cognitive labor and the structure of interdisciplinary problems." International Society for Scientometrics and Informetrics workshop "Reflecting on Interdisciplinary Teams"
  - 5/2023: "Science studies as a social science." Nordic Network for the Science of Science, DIAS, University of Southern Denmark. (w/ Petri Ylikoski)
  - 5/2023: "Modeling cognitive diversity in group problem solving." Philosophy of Cognitive Science seminar, University of Warsaw.

7/2022: "Computational methods." Models & Methods: Summer School of the Vienna Doctoral School of Philosophy, University of Vienna.

3/2022: "Social kinds in the making – construction or recruitment?" *Lógica, Historia y Filosofía de la Ciencia*. UNED, Madrid.

1/2022: "Tiedollinen kestävyys ja yliopistoautonomia" (Epistemic sustainability and academic freedom). Guest talk @ University Board meeting, University of Helsinki

1/2020: "Do Bayesian models help us to understand the human mind?" Mind and Matter workshop, University of Helsinki.

10/2019: \*Learning from field experiments.\* Workshop, Behavioural insights in designing public policy & interventions, University of Helsinki.

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

3/2019: "What has modeling taught us about cognitive diversity?" Agent-Based Models in Philosophy: Prospects and Limitations, Bochum.

11/2018: A workshop on Ron Mallon's "The Construction of Human Kinds.", University of Copenhagen.

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

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

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.

## TEACHING

### Academic teaching experience.

University-level courses taught: 35 (detailed information on my personal web page)

### Thesis supervision

*PhD theses*: Blanco Sequeiros (2019→)

*PhD (2nd supervisor)*: Nuotio (2023→), Malmberg (2023→), Skog Pirinen (2023→), Wuokko (2022→), Turunen (2020), Tolvanen (2020 →), Teräväinen (2016→), Seppälä (2019 →), Weckström (2019→)

*Master's theses*: Åberg (2024 →), Hyyryläinen (2022), Lassila (2025), Metsälampi (2023), Kanervo (2021), Hartonen (2019), Jylhä (2019→)

*Master's (2nd supervisor)*: Salenius (2024 →), Kuokkanen (2018), Mäki-Tuuri (2014)

*Bachelor's theses*: Vuontisjärvi (2022), Päivänen (2021), Vaahtoranta (2020), Järvinen (2020), Punamäki (2019), Nuotio (2018)

### Training in university pedagogy.

*Basic studies in university pedagogy*, 25 ECTS, University of Helsinki, completed 2024 (UP3.1: "Academic supervision", 5 ECTS, 2024; UP2.2: "Assessment of Learning and Giving Feedback", 5 ECTS, 2023; UP2.1: "Constructive alignment in course design", 5 ECTS, 2021; UP1: "Learning in higher education", 5 ECTS, 2020; UP5: "Development of teaching and practical training." 5 ECTS, 2015)

*Facilitation training* (7h workshop), University of Helsinki, 2020.

## ACADEMIC SERVICE

### PhD committee membership

Committee chair. Javier Osorio, Departamento de Lógica y Filosofía de la Ciencia, Universidad Autónoma de Madrid (2024-12)

External evaluation of a PhD thesis (lausunto), Faculty of Art and Design, University of Lapland

Evaluation committee of a PhD dissertation (Vitikka), faculty representative (2024-05)

### Peer review of funding applications

Panel member and reviewer of project applications for a national science center in the EU (2022-2024).

Peer review of applications for a Finnish foundation funding scientific research (2020).

### Peer review of publications

Philosophical Quarterly; British Journal for the Philosophy of Science; Nous; Philosophy of Science; Cognitive Science; Behavioural Public Policy; Synthese; Erkenntnis; Philosophy Compass; Studies in History and Philosophy of Science; Journal of Economic Methodology; Social Epistemology; European Journal for Philosophy of Science; Philosophical Psychology; Theory & Psychology; International Studies in the Philosophy of Science; Journal of Social Ontology; CogSci2020-2024; Theoria; Review of Behavioral Economics; Tiede & Edistys; Ajatus

Cambridge University Press (book manuscript); MIT Press (book manuscript); Gaudeamus (book manuscript).

### Organized events

Institutional epistemology workshop, Helsinki. Organizer. (2022, 2023, 2025)

Agency, Preferences and Welfare workshop, University of Helsinki. Organizer, 2024-9  
Architecture of scientific cognition workshop (ASC), Kilpisjärvi, Finland. Organizer. 2023.

Nordic Network for the Science of Science, Helsinki, Athens, Odense (three workshops). Organizer. 2022-2023.

ENPOSS23 - Program committee member. 2023.

EPSA21 - Program committee member. 2021.

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

### Editorial work

Guest editor for Journal of Economic Methodology special issue: "Diversity in the Philosophy of Economics" 2023-2024.

Guest editor for Synthese topical collection: "Social and Cognitive Diversity in Science" 2021.

Book series editor. *Philosophical Studies from the University of Helsinki* (2020→)

### Positions of trust

Scientific council member, HERO (Centre for Higher Education and Research as Objects of Study), Uppsala University, 2024 →

Faculty representative ("custos") at PhD defense and evaluation committee member, University of Helsinki, 2022-2023 (\*2)

Faculty board (deputy member), Faculty of Arts, UH (2022-2025)

Responsible teacher, entrance examinations in philosophy. UH (2020)  
Job search committee for university lecturer in theoretical philosophy (Swedish), UH.  
1/2020  
Department council member. Political and Economic Studies, UH. 1/2014–12/2017

## **SOCIETAL IMPACT**

### **Media**

2024-11: Opinion article published in Suomen Kuvalehti. ”Julkishallinto pois X:stä”  
(Public authorities should leave X, the social media platform)  
2024-09: Interview in philosophy magazine Paatos  
2024-01: Radio interview on Kulttuuriyökkönen, Yle (the national broadcasting company)  
2024-01: Interview - Science, uncertainty and trust (2024-01)  
2023-03: Interview on the effects of positionality statements in science. Helsingin Sanomat (national newspaper)  
2022-09: Interview on the nature of basic research. Tekniikan Maailma.  
2021-4: Interview on method, diversity, and ideology in science. Helsingin Sanomat <sup>3</sup>  
2020-09: Tahdonvoimalle tukea. Yliopisto-lehti 6/2020.  
2020-08: Giving People The Tools To Nudge Themselves. The Decision Lab<sup>4</sup>  
2020-06: What is 'self-nudging'? A simple trick to make healthier choices. NBC Today<sup>5</sup>  
2019-07: Interview on behaviorally informed policy. Les Échos<sup>6</sup>  
2014-10: Interview on looping effects of classifications in the social sciences, in Helsingin Sanomat (national newspaper)

**Full CV at <https://www.samulireijula.net>**

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<sup>3</sup><https://www.hs.fi/kulttuuri/art-2000007917387.html>

<sup>4</sup><https://thedecisionlab.com/insights/innovation/giving-people-the-tools-to-nudge-themselves/>

<sup>5</sup><https://www.today.com/health/what-self-nudging-simple-trick-make-healthier-choices-t184571>

<sup>6</sup><https://www.lesechos.fr/idees-debats/sciences-prospective/les-sciences-comportementales-au-service-des-politiques-publiques-1128551>