

**UNIVERSITY OF MILAN**

**Selection procedure for the appointment to associate professor to be filled pursuant to art. 18, paragraphs 1 and 4, of Law no. 240/2010 for the competition sector**

**11/C2 - Logic, History and Philosophy of Science**

**M-FIL/02 - Logic and Philosophy of Science at the Department of philosophy Piero**

**Martinetti, (notice of announcement published in the Official Gazette no. 52 of 28/06/2024) - Competition code 5611.**

**Aki Lehtinen**

**CURRICULUM VITAE**

**PERSONAL INFORMATION**

<b>SURNAME</b>	<b>LEHTINEN</b>
<b>NAME</b>	<b>AKI</b>

PhD (MPhil, MSocSci, MEPA)

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College of Philosophy

Tongyan Road, Haihe education park

300305 Tianjin, China

**SYNOPSIS**

Here is a brief overview of my qualifications. If you were to select me as an associate professor, I believe the main argument would be that I fit the description particularly well, and that my competencies within the relevant areas are very broad. I have published papers on all the main facets of the philosophy of economics, as outlined by Daniel Hausman's famous distinction: ethics in economics, rational choice, and the philosophy of science about economics. I have also studied and published on several different fields in economics: I have myself published on voting and social choice theory. I have discussed microeconomics, international economics, public choice and public economics, game theory, and general equilibrium theories. Unlike many others in the field, I have also delved into macroeconomics, and my first paper on econometrics, "Inferential Robustness and Meta-Regression," is now under second-round review in *Economics & Philosophy*.

Regarding social sciences, I have extensive knowledge of political science. I like to study topics from within the science itself, which explains why I have co-authored a paper with IR scholars (Richard Cook, Maximilian Ohle and Zhaoying Han) currently under review in the *European Journal of International Security*. My main focus in the philosophy of science is on the epistemology of modeling, computer simulation, and idealisation. Additionally, as demonstrated by some of my publications (e.g., Lehtinen 2006a, 2015), I possess formal skills in probability theory and computer simulation, and I have co-authored a paper, "Soundness Analysis" (with Raja Panjwani), currently under review in *Philosophy of Science*, that employs mathematical logic.

I also have experience in the long process of building a flourishing research community and securing funding for it. The Academy of Finland Centre of Excellence that the Philosophy Department in Helsinki had between 2012 and 2017 had its roots in the project "Economics Imperialism" (1.1.2004–31.12.2006) that I planned. I will explain this development in more detail in the section on work in international research groups. As you will see in my list of publications, I enjoy writing papers with colleagues in addition to solo work. Having seen how a successful and joyful research community is built and understanding its benefits, I am eager to contribute to creating such a community and being part of it. I believe the University of Milan offers a very good environment for this.

If you are wondering why a senior scholar who is already a full professor wants to apply for an associate professor position, here is my explanation: I have a family with two children, aged 13 and 15. Our plan was for the whole family to move to China with me, but two significant changes have affected this plan. First, the coronavirus pandemic made relocation impossible for about four years. More importantly, however, China has become increasingly authoritarian, as exemplified by the events in Hong Kong. This situation makes it untenable for us to stay in China long-term. Additionally, these circumstances hinder my ability to conduct research effectively.

I was employed at Nankai University with the intention of building a research community there. As a starting point, four years ago I proposed organizing an INEM (International Network for Economic Methodology) conference in Tianjin. However, the university leadership denied me permission, fearing that the topics might be deemed controversial from a Chinese perspective. In contrast, Milan and Italy offer not only a politically safer environment but also align with my family's preferences. My wife is eager to live in Italy; she has studied French for several years and has a basic knowledge of Italian. As an English teacher with experience ranging from university to vocational college levels and extensive experience in international administrative roles, she is likely to find an interesting position in Italy. Additionally, our children will soon be heading to university, making international relocation more feasible.

Let me finally assuage some fears that you might have about my willingness to stay in Milan in the long run. My home country is very small, with only two professor positions in the philosophy of science.

One of these positions was recently filled (candidates like Don Ross and myself were excluded by announcing the position for a more junior scholar), and the other has been converted to focus partly on sustainability science, a field in which I have no competence. As a result, I do not anticipate any senior or professor positions opening up in the next two decades. This means that any permanent position for me is likely to be outside Finland, and my family is fully aware of this.

At this stage in my career, I am eager to have the opportunity to build a research community with a long-term focus, rather than being limited to project-based work. Given Milan's already excellent scholarship in this field, I would be very enthusiastic about concentrating my efforts there.

## **TITLES**

### **EDUCATION**

<b>Title of Docent</b>
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The University of Helsinki, practical philosophy
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11.1. 2011
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**Doctor of Philosophy**

Erasmus Institute for Economics and Philosophy

Rotterdam, The Netherlands 10.10.2007

PhD thesis: The welfare consequences of strategic voting (no grade)

**Master of Social Sciences**

University of Helsinki, Faculty of Social Sciences

Finland 16.12.1998

Major subject: practical philosophy

Minor subject: economics

Master's thesis: Observability and interpersonal comparisons of utility (Eximia cum laude approbatur)

**Master of Philosophy**

Erasmus Institute for Economics and Philosophy

Rotterdam, The Netherlands 5.6.1998

**Master of Economics and Business Administration**

Turku School of Economics and Business Administration [Turun Kauppakorkeakoulu]

Finland 20.3.1996

Major subject: economics

Minor subject: business administration and management

Master's thesis in Finnish: Yhteinen etu ja äänestäminen; Tutkimus strategisen käyttäytymisen vaikutuksista äänestystuloksiin ja julkishyödykkeiden tarjontaan ("The general will and voting; an investigation of the consequences of strategic voting for voting results and the supply of public goods") (Eximia cum laude approbatur)

**Certificat d' Etudes Politiques**

Institut d'Etudes Politiques

Aix-en-Provence, France 5.6.1991

**TITLE OF PHD OR EQUIVALENT, OR, FOR THE SECTORS CONCERNED, OF THE DIPLOMA****OF MEDICAL SPECIALIZATION OR EQUIVALENT, OBTAINED IN ITALY OR ABROAD****Doctor of Philosophy**

Erasmus Institute for Economics and Philosophy

Rotterdam, The Netherlands 10.10.2007

PhD thesis: The welfare consequences of strategic voting (no grade)

**OTHER QUALIFICATIONS OBTAINED**

- Unilead course 2015-16, University of Helsinki leadership course
- The application call specified that one does not need to know Italian. Let me note, however, that I would learn Italian quickly given that my French is fluent, and I have also studied some

Spanish. I also speak English and Swedish fluently, my mother tongue being Finnish. Having lived in a few countries, I also know elementary German and Dutch, and some Chinese.

## **TEACHING ACTIVITY**

### **COURSES AND MODULES**

I will first list the courses I have taught and then describe the principles guiding my teaching, the teaching materials I have created and the curriculum development work I have led.

Of the 50 courses or seminars that I have taught, 18 were in Finnish, and 32 in English. The topics range from the philosophy of science to game theory, from global ethics to the philosophy of economics and from the history of philosophy to argumentation theory. I have also evaluated 'faculty examinations' in logic. Of the courses listed below, I was always in charge of designing the course contents and requirements (with one exception: the 'Praktikum').

#### *At Nankai University, Tianjin, China*

- Topics in Philosophy of Science, graduate course, autumn 2018, 2019, 2020, 2021, 2022, 2023
- Progress in Contemporary Philosophy of Science, Master course, spring 2019, 2020, 2021, 2023, 2024
- History of Philosophy of Science, Master course, autumn 2019, 2020, 2021, 2022, 2023
- Methodology of Science, Bachelor course, autumn 2019, 2020, 2021, 2022
- Innovative thinking and research, Bachelor course, autumn 2023
- Epistemology of science, graduate course, spring 2024

#### *At the Department/discipline of Social and Moral Philosophy, University of Helsinki, Finland*

- 'Praktikum', (In Finnish, Introduction to philosophy), autumn 1995,
- Taloustieteen filosofia (In Finnish, Philosophy of economics), advanced Master level, spring 1997
- Introduction to philosophy of science and methodology of social sciences, Bachelor course, (in Finnish), autumn 1998
- Peliteoria (In Finnish, Game theory), Master course, spring 1999

#### *At the faculty of the social sciences, University of Helsinki, Finland*

- Global ethics, Master course, autumn 2005
- Yhteiskuntatieteiden filosofia (In Finnish, Philosophy of the social sciences), Master course, spring 2009, spring 2010, and spring 2011
- Philosophy of the social sciences, Master course, spring 2012 (with Caterina Marchionni)
- A tutorial on the argumentation and the philosophy of the social sciences, Bachelor level, Spring 2015, Spring 2016, Spring 2017
- Johdatus argumentaatioon ja yhteiskuntatieteiden filosofiaan (in Finnish, Introduction to argumentation and the philosophy of the social sciences), Bachelor level, Spring 2018

#### *At the Department of Philosophy, University of Bayreuth, Germany*

- Interpersonal comparisons of utility, advanced bachelor level, spring 2004
- Introduction to the philosophy of science and the philosophy of the social sciences, bachelor level, winter term 2007-8
- Ethics in economics and rational choice theory, bachelor level, winter term 2007-8

#### *At Aalto University (Helsinki)*

- Philosophy of Economics, master and graduate level, spring 2011

### *Teaching philosophy and approach to teaching*

My teaching slogan is: Inspire and Challenge! Inspiring means demonstrating to students why I am passionate about the subject, while challenging means inviting them to think deeply. Consequently, I focus on tackling the most difficult topics, rather than avoiding them. This approach stems from a principle I established when I first taught: I aim to provide students with more than they could gain from simply reading a good book. While learning basic concepts from books can be straightforward, mastering complex ideas is significantly faster with the guidance of a teacher rather than through independent reading alone. My courses are consistently regarded as demanding and require intensive effort. This type of feedback is what I strive for and consistently receive.

However, I also invest considerable effort into finding ways to help students grasp even the most challenging topics and to develop their analytical skills. Philosophy can be difficult, and many students struggle with abstract arguments and concepts. To aid their understanding, I emphasise the use of illustrative examples and cases. By providing these concrete examples, I aim to make complex ideas more accessible and comprehensible.

### *Teaching and learning materials*

I have written seven papers with students as one intended audience (Lehtinen 2006b, Lehtinen 2020, Grüne-Yanoff and Lehtinen 2012, Lehtinen 2021, Lehtinen & Kuorikoski 2022, Lehtinen & di Iorio forthcoming) and have used three of my papers as compulsory readings for courses (Lehtinen 2013a; Lehtinen 2009; Kuorikoski, Lehtinen & Marchionni 2010). In addition to using presentation aids in the classroom, the web pages for my courses typically include extensive bibliographies and topic-related technical vocabulary. The University of Helsinki predominantly uses Moodle as its web platform for courses. I also make use of various IT solutions such as bibliographic software (RefWorks and EndNote). For technical papers in presentations and teaching, I utilise PowerPoint or the presentation facility in Lyx.

### *Development of teaching, courses and curricula*

I have consistently been active in advancing teaching within my discipline. As a student representative on the board of the discipline (1995-7), I initiated the practice of regularly collecting feedback on courses.

As the coordinator of the Finnish Graduate School of Philosophy (1 January 1999 – 31 December 2005), I was responsible for organising courses, including tasks such as securing financing and recruiting teachers. This role provided me with insights into the costs and logistics of organising various types of courses. Early in my tenure, I noticed that the national graduate education in philosophy was not functioning optimally. Although there was a Graduate School curriculum requiring students to cover the core areas of philosophy, the Graduate School was not providing teaching in these core areas. I proposed to the chair, Ilkka Niiniluoto, that each unit (i.e., each university with a philosophy department) should be assigned the responsibility of organising a course on their designated core topic at least once every two years. This proposal was accepted, and the core areas were allocated to the various units. I also observed that some graduate school courses were poorly attended, which I attributed to the lack of funds for travel. I suggested that the Graduate School should provide travel grants for students attending these courses, a change that was also adopted. After the first year of this change, I successfully included these travel grants in the funding application to the Academy of Finland.

From 2012 to 2018, I coordinated the teaching for the Centre of Excellence in the Philosophy of the Social Sciences at the University of Helsinki. In 2014, I was elected vice-head of the

discipline, and from 1 March 2015 to 31 December 2017, I served as the head of the discipline of Social and Moral Philosophy. In these roles, I was responsible for designing the curriculum and overseeing teaching.

On the 1st of March 2016, I was elected the director of the Master Programme in Philosophy and the vice-director of the Bachelor Programme in Philosophy. These programmes started operating in September 2017. I was in charge of creating the Master Programme, designing the study requirements, organising the teaching etc. Creating new, larger in terms of student intake, programmes was called for by a structural reorganisation at the University of Helsinki. I thoroughly familiarised myself with both Philosophy Programmes (theoretical and practical) before the unification and drafted a proposal for the curricula of the new Bachelor and Master programmes. Although the proposal was discussed and modified by the board, the final structure was only slightly different from the one I suggested. Before the programmes could start operating, it was necessary to motivate the teachers to write their course descriptions in such a way that they all fitted into a common format. With about 50 teachers to monitor, the task was not easy. I thus have unusually extensive experience in organising teaching, and designing curricula.

I have also been a member of the teaching skill evaluation committee which has given further perspective to my teaching: evaluating other people's teaching skills forces me to think hard about what good teaching is like.

#### *Strengths and challenges for developing my teaching*

I am a clear teacher, skilled at explaining complex issues in an understandable manner. My genuine enthusiasm for the topics I teach enhances my effectiveness in the classroom. I always keep in mind that students may find it challenging to focus on difficult topics for extended periods. Therefore, I make a conscious effort not to overload a course with too much material.

## **SUPPLEMENTARY TEACHING AND STUDENT SERVICE ACTIVITIES**

### **SUPERVISOR OF DEGREE PAPERS, MASTER'S DEGREE THESES, DOCTORAL THESES AND SPECIALIZATION THESES**

I have supervised the Master's theses of

- 1 Miika Kabata (Economic views of Aristotle, 2008)
- 2 Saara Hämäläinen (Strategy-proofness, 2008)
- 3 Mikael Korhonen (Carl Menger and Ludwig von Mises' economics 2016)
- 4 Juho Pääkkönen (Deflationism about representation in the philosophy of modelling 2016).
- 5 Sofia Blanco Sequeiros (The problem of extrapolation in economics 2019)
- 6 Limo Liu (The theory of human-technology interaction that opens the turn of "material morality" in Philosophy of Technology - A research on Verbeek's thought of Technology Mediation, 2022)
- 7 Jing Xuan: Social mechanisms without black boxes (2022)
- 8 Zezheng Wang (On Adam Smith's "Invisible Hand" from the Perspective of Philosophy of Economics, 2023)
- 9 Yingyi Yin (A Research on John Harris's Human Enhancement Technology), 2024

and the Candidate theses of

- 1 Elina Vessonen (The Economics of scientific knowledge, 2013)
- 2 Minna Tiainen (The absurdism of Albert Camus)
- 3 Juho Pääkkönen (Can fictive economic models explain? 2014)
- 4 Joonas Ottman (Milton Friedman and the criteria of theory assessment, 2013)
- 5 Mikael Korhonen (The Economics of Ludwig von Mises; Methodology in principle and in practice, 2016)
- 6 Matti Petteri Pöntiö (John Locke and the notion of property right, 2017).

I acted as an (first) examiner for the Master's theses of Kabata, Jukka Haapakoski (Lakatos and general equilibrium theory in development economics, 2008), Totte Harinen (Realization, reduction and the special sciences, 2011), Ville Hyvönen (Matemaattinen formalism taloustieteessä [Mathematical formalism in economics], 2012 Univ. of Jyväskylä), Sirkka Varis (Wittgensteinin Tractatus tulkittuna neutraalin monismin näkökulmasta, [Neutral monism in Wittgenstein's Tractatus] 2013), Noora Mursu (Villi luonto – käsitehistoria [Wilderness –a conceptual history], 2013), Francisco Gallego (Business ethics and virtue; On Robert C Solomon's many ways of being ethical, 2013), Jukka Sirviö (Sterba kantilaisuus ja utilitarianism, 2015 [Sterba, Kantianism and utilitarianism]), Janne Kauhala (Peter Winch toiminnan identifioimisesta 2015 [Peter Winch on identifying action]), Akseli Huhtanen (Yhteiskunnallinen muutos kasvatuspäämääränä: Paulo Freiren pedagogiikka ja kansalaiskasvatuksen teoria 2016 [Societal change as a pedagogical goal; Pedagogy of Paulo Freire and the theory of citizen education]), Olli Lipponen (Indoktrinaatio, kriittinen ajattelu ja kriittinen pedagogiikka [Indoctrination, critical thinking and critical pedagogy]), Pakonen (Human dignity, political liberalism, and disability in Martha Nussbaum's capability approach, 2016)

I am currently supervising the PhD thesis of Anita Välikangas "The social relevance of research" (supervision started in 2015), and of Xiang Dun "Representation in model-based science", (supervision started in 2021).

In China, the administration of Master's thesis supervision is different in that the supervisor also grades the theses, but there is an additional committee that grades them. In 2023, for example, I graded the Master's theses of Xiao Menghan (On Don Ihde's human-technology relationship), and Kai Chang (On Margaret Morrison's epistemology of computer simulation) as part of such a committee.

## **TUTORING ACTIVITIES FOR STUDENTS OF BACHELOR'S AND MASTER'S DEGREE COURSES AND TUTORING OF PHD STUDENTS**

- I acted as a tutor for new students in 1993 at Practical philosophy department, Helsinki.
- While I was a professor at the University of Helsinki (2015-2018), all the teachers acted as "teacher tutors".

## SEMINARS

*At the Department/discipline of Social and Moral Philosophy, University of Helsinki*

- Pro-Seminar on philosophy (In Finnish), Bachelor level, autumn 1998, spring 1999, autumn 1999, Spring 2013, Autumn 2013, Autumn 2014
- A Seminar on Philosophy of Economics, Master level, Spring 2013
- Seminar on practical philosophy, Graduate level, Autumn 2015

*At the Faculty of the Social Sciences, University of Helsinki*

- Current issues in the philosophy of the social sciences, graduate seminar, with Caterina Marchionni, autumn 2011 and 2012

*At the Department of Philosophy, University of Bayreuth, Germany*

- Philosophy of economics (Seminar), bachelor level, winter term 2007-8

## SCIENTIFIC RESEARCH ACTIVITIES

### SCIENTIFIC PUBLICATIONS AND AN OVERVIEW OF RESEARCH INTERESTS

I will first list my publications and then give an overview of my research interests.

Google Scholar gives 1160 citations to my work.

*Peer-reviewed journal articles*

1. Lehtinen, Aki (forthcoming): "Imagination and fiction in modelling; an epistemic critique", *Synthese*
2. Lehtinen, Aki & Raerinne, Jani (2023): "Simulated data in empirical science", *Foundations of Science*. <https://link.springer.com/article/10.1007/s10699-023-09934-9>
3. Lehtinen, Aki (2022): "The epistemic benefits of generalisation in modelling II: Expressive power and abstraction", *Synthese*, vol. 200, no. 2, doi: 10.1007/s11229-022-03530-3
4. Lehtinen, Aki (2021a): "The epistemic benefits of generalisation in modelling I: Systems and applicability", *Synthese*, vol. 199, no. 3-4, pp. 10343-10370. DOI: 10.1007/s11229-021-03250-0
5. Lehtinen, Aki (2021b): "The Helsinki Approach to Economic Methodology, Or, how to Espouse the Mainstream?", *Journal of Economic Methodology*, vol. 28, no. 1, pp. 79-87. DOI: 10.1080/1350178X.2020.1868775
6. Lehtinen, Aki & Kuorikoski, Jaakko (2021): "Uusi taloustieteen metodologia" ('The new methodology of economics'), *Kansantaloudellinen Aikakauskirja* (Annals of Economics) vol. 117, no. 2, pp. 142-154. <http://hdl.handle.net/10138/339599>
7. Lehtinen, Aki (2018): "Derivational Robustness and Indirect Confirmation", *Erkenntnis*, vol. 83, no. 3, pp. 539-576. DOI: 10.1007/s10670-017-9902-6
8. Kuorikoski, Jaakko & Lehtinen, Aki (2018): "Model Selection in Macroeconomics: DSGE and Ad Hocness", *Journal of Economic Methodology*, vol. 25, no. 3, pp. 252-264. DOI: 10.1080/1350178X.2018.1488563
9. Lehtinen, Aki (2017): "Riippumattomuusehto sosiaalisen valinnan teoriassa - Melkein viimeistä kertaa" ('The independence condition in social choice theory – almost for the last time'), *Ajatus (Thought)*, vol. 74, pp. 241-279. <https://journal.fi/ajatus/article/view/74486>
10. Lehtinen, Aki (2016): "Allocating confirmation with derivational robustness", *Philosophical Studies*, vol. 173, pp. 2487-2509. DOI: 10.1007/s11098-016-0625-3



11. Lehtinen, Aki (2015a): "A critique of social choice theory; Interpersonal comparisons in the theory of voting", *Erasmus Journal for Philosophy and Economics*, vol. 8, no. 2, pp. 34-83. DOI: 10.23941/ejpe.v8i2.200
12. Lehtinen, Aki (2015b): "Strategic voting and the degree of path-dependence", *Group Decision and Negotiation*, vol. 24, no. 1, pp. 97-114. DOI: 10.1007/s10726-014-9381-y
13. Lehtinen, Aki (2013a): "Three Kinds of 'as-if' Claims", *Journal of Economic Methodology* vol. 20, no. 2, pp. 184-205. DOI: 10.1080/1350178X.2013.801560
14. Lehtinen, Aki (2013b): "On the Impossibility of Amalgamating Evidence", *Journal for the General Philosophy of Science* 44, pp. 101-110. DOI: 10.1007/s10838-013-9209-5
15. Kuorikoski, Jaakko, Lehtinen, Aki & Marchionni, Caterina (2012): "Robustness Analysis Disclaimer: Please Read the Manual before use!", *Biology and Philosophy*, vol. 27, no. 6, pp. 891-902. DOI: 10.1007/s10539-012-9329-z
16. Lehtinen, Aki (2011a): "The Revealed Preference Interpretation of Payoffs in Game Theory", *Homo Oeconomicus*, vol. 28, no. 3, pp. 265-296. ISSN 0943-0180
17. Lehtinen, Aki (2011b): "A Welfarist Critique of Social Choice Theory", *Journal of Theoretical Politics*, vol. 23, no. 3, pp. 359-381. doi: 10.1177/0951629811411753
18. Kuorikoski, Jaakko & Lehtinen, Aki (2010): "Economics Imperialism and Solution Concepts in Political Science", *Philosophy of the Social Sciences*, vol. 40, no. 3, pp. 347-374. Doi: 10.1177/004839310934145
19. Kuorikoski, Jaakko, Lehtinen, Aki & Marchionni, Caterina (2010): "Economic Modelling as Robustness Analysis", *British Journal for the Philosophy of Science*, vol. 61, no. 3, pp. 541-567. DOI: 10.1093/bjps/axp049
20. Lehtinen, Aki (2009a): "Intentions in Invisible-Hand Accounts", *Journal of Economic Methodology*, vol. 16, no. 4, pp. 409-416. DOI: 10.1080/13501780903337354
21. Kuorikoski, Jaakko & Lehtinen, Aki (2009b): "Incredible Worlds, Credible Results", *Erkenntnis*, vol. 70, no. 1, pp. 119-131. DOI: 10.1007/s10670-008-9140-z
22. Lehtinen, Aki (2008): "The Welfare Consequences of Strategic Behaviour under Approval and Plurality Voting", *European Journal of Political Economy*, vol. 24, pp. 688-704. <https://doi.org/10.1016/j.ejpoleco.2008.03.002>
23. Lehtinen, Aki (2007a): "The Borda Rule is also Intended for Dishonest Men", *Public Choice*, vol. 133, no. 1-2, pp. 73-90. DOI: 10.1007/s11127-007-9178-5
24. Lehtinen, Aki (2007b): "The Welfare Consequences of Strategic Voting in Two Commonly used Parliamentary Agendas", *Theory and Decision*, vol. 63, no. 1, pp. 1-40. DOI: 10.1007/s11238-007-9028-4
25. Lehtinen, Aki & Kuorikoski, Jaakko (2007a): "Computing the Perfect Model: Why do Economists Shun Simulation?", *Philosophy of Science*, vol. 74, no. 3, pp. 304-329. DOI: 10.1086/522359
26. Lehtinen, Aki & Kuorikoski, Jaakko (2007b): "Unrealistic Assumptions in Rational Choice Theory", *Philosophy of the Social Sciences*, vol. 37, no. 2, pp. 115-138. doi: 10.1177/0048393107299684
27. Lehtinen, Aki (2006a): "Signal Extraction for Simulated Games with a Large Number of Players", *Computational Statistics and Data Analysis*, vol. 50, pp. 2495-2507 doi: 10.1016/j.csda.2005.07.004

*Papers in peer-reviewed collected volumes*

28. Lehtinen, Aki & di Iorio, Francesco (forthcoming): "Rationaalisen valinnan teoria" [Rational choice theory], in *1900-luvun angloamerikkalainen yhteiskuntateoria* [20th Century Anglo-American Social Theory], eds. Herranen, Olli & Pyykkönen, Miikka, Gaudeamus, Helsinki.

29. Lehtinen, Aki & Kuorikoski, Jaakko (2022): "Computer simulations in economics", *The Routledge Handbook of the Philosophy of economics*, eds. Conrad Heilmann & Julian Reiss, Routledge, pp. 355-369. ISBN 9781315739793
30. Lehtinen, Aki (2021): "Core models in macroeconomics", Ch. 12 in *Modern Guide to Philosophy of Economics*, ed. Harold Kincaid and Don Ross, Edward Elgar 2021, pp. 254-283. ISBN: 9781788974462
31. Lehtinen, Aki (2020): "Johdatus ilmastotutkimuksen tieteenfilosofiaan" ("Introduction to the philosophy of climate science"), in *Ilmastomuutos ja filosofia* [Philosophy of Climate Change] eds. Simo Kyllönen & Markku Oksanen, Gaudeamus, pp. 46-64. ISBN 9789523456488
32. Kuorikoski, Jaakko & Lehtinen, Aki (2013): "Markkinatasapaino ja markkinamekanismi" ("Market equilibrium and the market mechanism"), in *Talous ja filosofia* [The economy and Philosophy], eds. Niiniluoto, Ilkka, Jaakko Kuorikoski, and Risto Vilkkio, Gaudeamus, Helsinki, pp. 54-70. ISBN 9789524958134
33. Lehtinen, Aki (2012): "Introduction: Uskali Mäki's Realist Philosophy of Economics", in *Economics for Real*, eds. A. Lehtinen, J. Kuorikoski & P. Ylikoski, Routledge, London, pp. 1-40. ISBN: 9780415686549
34. Grüne-Yanoff, Till & Lehtinen, Aki (2012): "Philosophy of Game Theory", in *Handbook of the philosophy of economics*, ed. U. Mäki, Elsevier, Amsterdam, pp. 531-576. ISBN: 9780444516763
35. Lehtinen, Aki (2010): "Behavioural Heterogeneity under Approval and Plurality Voting", in *Handbook on approval voting*, eds. J. Laslier & R. Sanver, Springer, Heidelberg, pp. 285-310. ISBN 978-3-642-02838-0
36. Lehtinen, Aki (2006b): "Rationaalisen valinnan teorian rakenne ja käyttäytymisoletukset" ("The structure and behavioural assumptions of rational choice theory"), in *Soveltava yhteiskuntatiede ja filosofia* (Applied social science and philosophy), eds. K. Rolin, M. Kakkuri-Knuuttila & E. Henttonen, Gaudeamus, Helsinki, pp. 215-240. ISBN: 951-662-974-1

#### *Book reviews and editorials*

37. Lehtinen, Aki (2022): "A review on Katzner's Models, Mathematics and Methodology in Economic Explanation", *Journal of Economic Methodology*, Vol. 29, No. 1, pp. 105-109. DOI: 10.1080/1350178X.2021.2006998
38. Lehtinen, Aki (2013c): "Preferences as total subjective comparative evaluations", a review of Hausman, Daniel (2012): *Preference, value, choice, and welfare*, Cambridge University Press, Cambridge, *Journal of Economic Methodology* 20, 2, pp. 206-210. DOI: 10.1080/1350178X.2013.804743
39. Lehtinen, Aki, Uskali Mäki & Caterina Marchionni (2014): "Introduction to the special issue: papers from the IX INEM Conference in Helsinki", *Journal of Economic Methodology* 21, 1, pp. 1-2.

#### *Books*

40. *Economics for real: Uskali Mäki and the Place of Truth in Economics* (2012), eds. Lehtinen, Aki; Kuorikoski, Jaakko and Ylikoski, Petri, Routledge: London. ISBN : 9780415686549
41. Lehtinen, Aki (2007): *The welfare consequences of strategic voting*, PhD dissertation, Erasmus Institute for Philosophy and Economics, Erasmus University Rotterdam, published by Haveka, Dordrecht. <https://core.ac.uk/reader/18516550>

#### *Publications intended for the general public, linked to the applicant's research*

42. Lehtinen, Aki (2001): "Rationaalisuus taloustieteessä" (Rationality in economics), *Kapitaali* 2, p. 8-11.

43. Lehtinen, Aki (2006): "Gallup-tulosten julkistamisesta" (On publishing Gallup polls), *Helsingin Sanomat*

*Theses*

Lehtinen, Aki (2007): The welfare consequences of strategic voting, PhD dissertation, Erasmus Institute for Philosophy and Economics, Erasmus University Rotterdam, published by Haveka, Dordrecht.

44. Lehtinen, Aki (1998): Observability and interpersonal comparisons of utility, Master's thesis, University of Helsinki, Department of Social and Moral Philosophy.

45. Lehtinen, Aki (1996): Yhteinen etu ja äänestäminen; Tutkimus strategisen käyttäytymisen vaikutuksista äänestystuloksiin ja julkishyödykkeiden tarjontaan ("The general will and voting; an investigation of the consequences of strategic voting for voting results and the supply of public goods"), Master's thesis, Turku School of Economics and Business Administration.

My most important contributions are the following:

- 1) A series of papers (Lehtinen 2007a, b, 2008, 2010) demonstrate that strategic voting is likely to be beneficial under all major voting rules. This implies the existence of a political invisible hand. Furthermore, the widespread use of the plurality rule can be explained by its resistance to the pernicious consequences of strategic voting under behavioural heterogeneity.
- 2) I show (2011b, 2015a) that these results have significant implications for the methodology of social choice theory: studying voting rules based on conditions imposed on an aggregation rule does not make sense.
- 3) Robustness guards against error by demonstrating that a result does not depend on false auxiliary assumptions (Kuorikoski et al. 2010, 2012).
- 4) Robustness provides a way to solve Duhem-Quine problems (2016) and confirms indirectly (2018, submitted).
- 5) Some, but not all, generalizations in modelling have epistemic benefits (2021b, 2022).

I will now provide an overview of my research interests over the years, as well as my recent research pursuits. My Master's thesis in economics focused on voting theory, while in practical philosophy, it addressed ethics in economics and social choice theory. My first international journal publication (2006) was in computational statistics. Over the following years, I published in an economics journal (2007a, 2008), a decision-theory journal (2007b), and a political science journal (2011b), in addition to philosophy journals. This diverse start resulted from developing a methodologically unconventional model of strategic voting. To support this, I learned to write algorithms for computer simulations on a supercomputer using Matlab and Fortran. To justify my methodological choices and explain the relevance of my results to political philosophy, I studied statistics, utility theory, game theory, decision theory, political science, normative ethics, and political philosophy. My publications on the philosophy of game theory (2011a, Grüne-Yanoff & Lehtinen 2012), rational choice theory (2006b, Lehtinen & Kuorikoski 2007, Kuorikoski & Lehtinen 2010, Lehtinen & di Iorio forthcoming), social choice theory (2011b), and interpersonal comparisons (2015a) are based on these studies.

About 15 years ago, I shifted my focus more clearly towards the philosophy of science, with particular emphasis on the literature on modeling and simulation. Broadly speaking, I have been studying the epistemology of modeling. My research has covered topics such as robustness, generalization, and idealization, and more recently, I have focused on the empirical evaluation of models, including confirmation, data, and meta-analysis. You can view a thematic listing of

my publications on my web page <https://www.mv.helsinki.fi/home/alehtine/akilehtinen.htm>. All my publications in English are also easily accessible on ResearchGate.

As explained in more detail below, before moving to China, I was associated with the University of Helsinki, participating in a series of research projects that culminated in the Centre of Excellence in the Philosophy of the Social Sciences (2012-2017). A central focus of these research projects was investigating interdisciplinary relations. These endeavours have taught me two important lessons that may initially appear contradictory. On the one hand, systematically studying interdisciplinarity from a philosophical perspective is almost impossible, and high-quality contributions in this area are rare. On the other hand, understanding and clarifying interdisciplinary differences in methods is perhaps the most important contribution that philosophers of science focusing on methodology can provide. Interdisciplinary relationships are so complex that one can usually study only two or three sciences at a time. If one starts from the premise that the philosophy of science should be useful for scientists themselves, then the philosopher must delve deeply into the target science to avoid unconstructive criticism. I studied economics extensively, including all the graduate courses required for a PhD, but I chose to submit only one doctoral thesis. A few years later, the department of economics agreed that I would qualify for a docentship in economics, but since the University of Helsinki only grants docentships in one subject, my docentship is in the philosophy of the social sciences.

It turned out, however, that upon reading the work of other philosophers who had studied different sciences, the methods used in economics could be evaluated differently in those other sciences. In other words, I realized that one cannot fully understand the methodology of economics by merely studying economics. Hence, I have tried to compare different disciplines and methods to see the extent to which methodological arguments in one discipline can be applied to another. This is one of the reasons why, in the last fifteen years or so, I have studied political science, statistics, and climate science in addition to economics.

The interdisciplinary comparisons have raised questions about the extent to which research results, knowledge, and empirical evidence can be used or integrated across different disciplines. This general viewpoint explains why I have the following papers under review: "Inferential Robustness and Meta-Regression" (under second-round review in *Economics & Philosophy*) and "Strengthening the Robust Theorem and Genuine Confirmation" (*Synthese*). The first paper addresses the methodology of statistics and meta-analysis, with a case study from alcohol research, while the latter focuses on confirmation theory and modelling. Two additional papers currently under review highlight the versatility of my interests: "Soundness Analysis" (with Raja Panjwani) (*Philosophy of Science*) combines mathematical logic with modeling epistemology, featuring a case study on the economics of law. Further paper drafts concern inferentialism and scientific representation (with Dun Xiang) and independence conditions in robustness analysis.

Given that my recent publications cover data (Lehtinen & Raerinne 2023), computer simulation (ibid, Lehtinen & Kuorikoski 2022), macroeconomic methodology (2022), climate science (2020), rational choice theory (Lehtinen & di Iorio forthcoming), generalization, abstraction, and idealization (2021a, 2022), meta-methodology (2021b, Lehtinen & Kuorikoski 2022), and the epistemology of the fiction view of modelling (forthcoming), it may seem like I am aimlessly studying a wide range of unrelated topics. However, this selection of topics results from a conscious meta-methodology: by closely examining various cases and approaches, I aim to develop a general account of the epistemology of modelling and simulation.

## ORGANIZATION, DIRECTION AND COORDINATION OF NATIONAL AND INTERNATIONAL RESEARCH CENTERS OR GROUPS OR PARTICIPATION IN THEM

### Major grants received

- Nankai University general research grant 'Philosophy of modelling', October 2021-December 2023, 100,000 CNY. This grant was awarded by the Nankai University. I am the principal applicant. Other project members include Ruibin Hu, Jiantong Xia and Francesco di Iorio.
- Thousand Talents Key Discipline grant, China 2018, 1,000,000 CNY. This grant was awarded by the Government of Tianjin. I am the principal applicant.
- University of Helsinki three-year grants, a project on Climate ethics and economics 2014-2016. The grant was awarded by the University of Helsinki. I was the principal applicant. Other project members included Sade Hormio and Simo Kyllönen. This project focused both on the ethics and political philosophy of climate science, and on the scientific basis of climate science. See <https://blogs.helsinki.fi/climate-ethics/> for further information.
- Centre of Excellence in the Philosophy of the Social Sciences, 2012-2017. This is a major grant awarded by the Academy of Finland. 3,312,074 Euros. The principal applicant was Uskali Mäki.
- Models and simulations in and across the social sciences (2012-2015). 480000 Euros.
- Economics imperialism 2004-2006. 200000 Euros. The grant was awarded by the Academy of Finland. The principal applicant was Uskali Mäki.

I have had a very central role in the development that led to creating the Centre of Excellence in the Philosophy of the Social Sciences (2012–2017) at the University of Helsinki. This was a multi-million Euro research community financed by the Academy of Finland. Let me explain.

I single-handedly wrote the application for the Academy of Finland research project on 'Economics Imperialism' (1.1.2004–31.12.2006). I assembled a team of capable students and presented the application to the principal investigator, Uskali Mäki, one day before the submission deadline (in Finland it is common that junior researchers write project applications although they are submitted by a senior staff member). This team of students included Jaakko Kuorikoski and Caterina Marchionni, and this became the start of our collaboration. At this stage, Uskali Mäki merely signed the application. Subsequently, he wrote his successful Academy Professor application on a similar but somewhat broader theme titled 'Trends and Tensions in Intellectual INTeGration (TINT)'. Finally, a team of about six scholars, including all those who had been funded by the Economics Imperialism project, jointly authored the successful application for the Centre of Excellence, and I was one of the key members of this team.

At the same time, I, along with Jaakko Kuorikoski and Caterina Marchionni, wrote a successful application for another Academy of Finland project on 'Models and Simulations in and Across the Social Sciences' (2013–2017). The Centre of Excellence was highly successful in attracting skilled scholars, organising workshops and conferences, and publishing high-quality papers. Consequently, the QS World University Rankings placed the Philosophy department at the University of Helsinki at its peak position of 21st in the world in 2017. This was also my last year as Director of the Master's Programme and as Head of Discipline in Practical Philosophy.

A crucial element of our success was fostering a collegial atmosphere. To contribute to this, I regularly invited new foreign scholars to my house for sauna and dinner, helping to build a welcoming and collaborative community.

I served as the principal investigator for the University of Helsinki's three-year grant on 'Climate Ethics and Economics'. The other team members included ethicists and social philosophers Sade

Hormio and Simo Kyllönen, as well as philosopher of science Alessandra Basso. This project effectively combined the philosophy of science with ethics, economics, and political philosophy. The project was quite successful, with Hormio and Kyllönen receiving their PhDs during or shortly after its completion. In addition to several articles (including mine from 2016, 2018, and 2020), we published a collected volume: *The Ethical Underpinnings of Climate Economics*, edited by Walsh, A., Hormio, S., and Purves, D., Routledge. In China, I am currently the principal investigator for a research project on the 'Epistemology of Modelling'.

### **Conference organization**

- Models, Mechanisms, and Interdisciplinarity, October-November 2008, Helsinki
- INEM sessions at the ASSA meeting, January 2009, San Francisco
- INEM Meeting, September 2011, Helsinki
- Models and Simulations 5, June 2012 Helsinki
- AID – Agora for interdisciplinary debate, autumn 2012 –
- Ethical Underpinnings of Climate Economics, Helsinki, November 2014
- Robustness workshop, 2014 Helsinki
- Fictions in economic modelling, INEM session in the 3rd international conference economic philosophy, June 2016, Aix-en-Provence
- Models, evidence and progress in economics, The Japanese Society for the History of Economic Thought, June 2018, Tokyo

When it comes to international collaborations and conferences, I have been most closely associated with the societies on philosophy of economics and the social sciences. I was a member of the board of the International Network for Economic Methodology (INEM) for eight years. I mostly attend philosophy of science conferences, but as you can see from the list below, I have also participated in conferences on ethics, the history of economics, political science, social choice theory, economics, science studies, philosophy of technology, and logic. I have also organized several conferences and workshops, but in China I was denied permission to organise an INEM conference (due to an unjustified fear that the topic might be politically sensitive), and for three years the country was closed for visitors, thwarting all plans to organise anything.

I have reviewed papers for the following journals:

American Journal of Political Science, *Ajatus*, British Journal for the Philosophy of Science (>5), Cambridge Journal of Economics, *Critica*, *Drustvena Istrazivanja*, *Economics & Philosophy*, *Erasmus Journal for Philosophy and Economics* (>5), *Erkenntnis*, *European Journal for Philosophy of Science*, *Finnish Economic Papers*, *Foundations of Science*, *Group Decision and Negotiation* (>5), *Homo Economicus*, *International Review of Sociology*, *International Studies in the Philosophy of Science*, *Journal of Economic Methodology* (>15), *Journal of Philosophy*, *Journal of Theoretical Politics*, *Metroeconomica*, *Ekonomia*, *Philosophy & Technology*, *Philosophy of Science* (>5), *Philosophy of the Social Sciences*, *Political Analysis*, *Public Choice*, *Southern Journal of Philosophy*, *Studies in History and Philosophy of Science*, *Synthese* (>5). *Tiede & Edistys*

And for the following collected volumes:

- *Preference Change: Approaches from Philosophy, Economics and Psychology*, Springer, eds. Grüne-Yanoff, Till and Hansson, Sven-Ove
- *Advances on approval voting*, Springer, eds. Laslier, Jean-Francois and Sanver, Remzi
- *Economics for real*, Routledge, eds. Lehtinen, Aki, Jaakko Kuorikoski, and Petri Ylikoski
- *Talouden filosofia*, *Gaudeamus*, eds. Niiniluoto, Ilkka, Jaakko Kuorikoski and Risto Vilkkio

- Frontiers of Social Sciences: A Dialogue, Bloomsbury, eds. Michiru Nagatsu and Attilia Ruzzene.

I have reviewed book manuscripts for:  
Cambridge University Press, Routledge, Gaudeamus

Peer review of funding applications:  
- Kone Foundation: social sciences 2019

Other review tasks include:

- Chairman of the Review committee for the INEM Young Scholar Prize 2021
- Recruitment committee for Associate Professor, Nankai University, spring 2020 (Misha Tadd)
- Recruitment committee for Associate Professor, Nankai University, spring 2021 (Frank Zenker)
- Reviewing papers and abstracts for conferences: International Network for Economic Methodology (INEM), European Philosophy of Science Association, Asian Network for the Philosophy of the Social Sciences
- Master and doctoral student selection, Nankai University (once a year, 2020-2024)

## ACTIVITIES SUCH AS DIRECTING OR PARTICIPATING IN EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

*(for each entry insert year, duration, role, scientific journal, etc.)*

- Member of advisory board, Erasmus Journal for Philosophy and Economics 2009-
- Member of executive board, International Network for Economic Methodology (2014-2022)

## OWNERSHIP OF PATENTS

*(for each patent, enter authors, title, type [national or international], year, patent number, etc.)*

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## NATIONAL AND INTERNATIONAL AWARDS AND RECOGNITIONS FOR RESEARCH ACTIVITIES

*(enter name and reason for the award, date, awarding body, etc.)*

University of Helsinki award for an excellent master's thesis 1998 Yrjö Jahnsson Foundation award for an excellent master's thesis (in economics) 1996 Thousand Talents grant 2018, Tianjin Government, China
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## PARTICIPATION AS A SPEAKER AT CONGRESSES AND CONFERENCES OF INTERNATIONAL INTEREST

*(insert congress/conference title, date, duration in days/hours, organizing body, etc.)*

Keynote presentations at conferences
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1. "A welfarist critique of social choice theory II: Interpersonal comparisons in the theory of voting", Theoretical and applied ethics; Traditions and perspectives, St. Petersburg, 21.11.2013
2. "Macroeconomic methodology", 10th International Conference, Economic Challenges in Enlarged Europe, Tallinn, 17.6.2018
3. "Simulated data in empirical science", International Conference on Science and Technology Ethics and Human Future, Dali, China, 13.5.2022

#### *Invited presentations*

1. "Economics as robustness analysis", EIPE research seminar, 15.10.2007, Rotterdam
2. "A farewell to IIA", Tilburg social choice colloquium, 21.12.2007, Tilburg
3. "The consequences of behavioural heterogeneity under approval, plurality and range voting", Advances on approval voting workshop, Palaiseau, Paris, 15.-16.10.2010
4. "Metodologisia huomioita mikrosimulaatioista", Inauguration of the SISU model, Helsinki, 30.5.2012
5. "Strategic voting under the runoff rule", Institutions in context, Dictatorship and democracy, Tampere, 9.6.2012
6. "The welfare consequences of strategic voting under the runoff rule", Kolloquium des Fachbereichs Politik- und Verwaltungswissenschaft, University of Konstanz 19.12.2012
7. "The epistemic benefits of generality in economic modelling", Frankfurt School of Management & Finance, Frankfurt 25.5.2015
8. "Code verification in voting theory", Symposium on verification and validation of computer simulations, Hannover, 8.7.2015
9. "The epistemic benefits of generalization in economic modelling", Workshop on models and explanations in economics, Innsbruck 11.6.2016
10. "Model selection in macroeconomics, DSGE and ad hocness", Models and explanations in economics, Rostock, 1.7.2017
11. "The epistemic benefits of generalization in economic modelling", Nankai University, Tianjin, China 30.3.2018
12. "Core models in macroeconomics", Sorbonne, Paris 1, History of macroeconomics seminar, 12. December 2020

#### *Conference presentations since 2009*

1. "Economics imperialism and solution concepts in political science" ASSA meeting, 4.1.2009, San Francisco
2. "Robustness analysis and empirical testing", Models and simulations 3, 6.-8.3.2009, Charlottesville, Virginia, USA
3. "Three kinds of as if claims", International Network for Economic Methodology conference, 9.-12.7.2009, Xalapa, Mexico
4. "Generality, unification, and the search for robust theorems in model-based economics" (with Caterina Marchionni), International Network for Economic Methodology conference, 9.-12.7.2009, Xalapa, Mexico
5. "A welfarist critique of social choice theory", European Public Choice Conference, 8.-11.4.2010, Izmir, Turkey
6. "Behavioural heterogeneity under approval and plurality voting", European Public Choice Conference, 8.-11.4.2010, Izmir, Turkey
7. "Robustness analysis and indirect confirmation", 7.-9.5.2010 Models and Simulations 4, Toronto, Canada.
8. "Robustness analysis and indirect confirmation", TINT seminar, Helsinki, 8.11.2010
9. "The role of derivational robustness in confirming economic models", INEM conference, 12.-14.11.2010, Birmingham, Alabama



10. "The revealed preference interpretation of payoffs in game theory", TINT seminar, Helsinki, 31.1.2011
11. "On the reference of the neoclassical firm", INEM conference, Helsinki, 3.9.2011
12. "Uskali Mäki's realist philosophy of economics", Inauguration of 'Economics for Real', Helsinki, 4.9.2011
13. "Comment on Alan Kirman: Why did the market as an institution disappear from economic theory?", The Market workshop, Helsinki, 5.9.2011
14. "Fiktioit taloustieteessä [Fictions in economics]", the Finnish philosophical association, Helsinki, 10.1.2012
15. "The degree of path-dependence and strategic voting", II Public Choice world conference, Miami, 11.3.2012
16. "Equilibrium in markets and voting", The market workshop, Helsinki, 5.5.2012
17. "Fictional representations for realistic descriptions of behaviour", Models and simulations 5, Helsinki, 16.6.2012
18. "On the impossibility of amalgamating evidence", Philosophy of Science Association conference, San Diego, 16.11.2012
19. "The welfare consequences of strategic voting under runoff and plurality rules", Public Choice at 50 conference, New Orleans, 8.3.2013
20. "Amalgamating evidence in economics" (with Luis Mireles-Flores), INEM, Rotterdam, 14.6.2013
21. "A critique of social choice theory: Interpersonal comparisons in the theory of voting", Moral and Political Philosophy Research Seminar, Helsinki, 5.2.2014
22. "Evidence amalgamation in economics" (with Luis Mireles-Flores), Evidence in Science and Epistemology Conference, Helsinki, 27.5.2014
23. "Meta-regression in economics", ENPOSS, Madrid 10.9.2014
24. "Derivational robustness and indirect confirmation", PSA, Chicago 6.11.2014
25. "Derivational robustness and indirect confirmation", Working seminar on robustness analysis, Helsinki 28.09.2014
26. "Quasi-markets and marketization of the public sector", The Market workshop, Helsinki, 15.11.2014
27. "The virtue of generality in economic models (w. Caterina Marchionni)", TINT seminar, Helsinki, 23.3.2015
28. "Allocating confirmation with derivational robustness, Nordic Network for Philosophy of Science conference, Helsinki, 23.4.2015
29. "Allocating confirmation with robustness, CLMPS, Helsinki, 9.8.2015"
30. "DSGE and ad hocness" (w. Jaakko Kuorikoski), INEM conference, Cape Town, 20.11.2015
31. "The Epistemic Benefits of Generalization in Economic Modelling", Models and simulations 7, Barcelona 18.05.2016
32. "DSGE and ad hocness" (w. Jaakko Kuorikoski), Models and simulations 7, Barcelona, 18.05.2016
33. "Fictional representations for tracking truth", 3rd International conference economic philosophy, Aix-en-Provence 15.6.2016
34. "The Epistemic Benefits of Generalization in Economic Modelling", PSA, Atlanta 5.11.2016
35. "Robustness arguments in meta-regression", Erasmus Institute for Philosophy of Economics (EIPE-20) conference, Rotterdam, 22.3.2017
36. "Model selection in macroeconomics: DSGE and ad hocness" Models and explanations in economics, Rostock, 1.7.2017
37. "Should meta-regressions be robust?" INEM conference, San Sebastian 28.8.2017

38. "Should meta-regressions be robust?" European Philosophy of Science Association conference, Exeter 6.9.2017
39. "Confirmation by realism" (w. Jaakko Kuorikoski) A workshop on What to make of highly unrealistic models, Helsinki 13.10.2017
40. "The epistemic benefits of generalisation in economics", Asociación Latinoamericana de Historia y filosofía Economica, Bogotá, 5.11.2018
41. "When should meta-regressions be robust?", Finnish Society for Philosophy annual meeting, Helsinki, 11.1.2018
42. "Testing the tools", Models and Simulations, Columbia, 16.3.2018
43. "The epistemic benefits of generalizations in economic modelling", Japanese Society for the History of Economic Thought, Tokyo, 2.6.2018
44. "Core models", Multiple models workshop, 2.10.2018, Helsinki
45. "Johdatus ilmastotutkimuksen tieteenfilosofiaan", Ilmastomuutoksen filosofia, SFY, Helsinki, 12.12.2018
46. "Core models", Asian Conference on the Philosophy of the Social Sciences, Tianjin, 5.6.2019
47. "Meta-regressions on alcohol demand research", Nordic Science and Technology Studies Conference, Tampere, 13.6.2019
48. "Simulated data", CLMPST, Prague 8.8.2019
49. "Confirmation by realism" (w. Jaakko Kuorikoski), INEM, Helsinki, 21.8.2019
50. "Core models", The soul of economics, Zurich 12.9.2019
51. "Why do macroeconomists want core models?", IDEAS workshop on economics education, Kuala Lumpur, 12.12.2019
52. "The epistemic benefits of generalisation in modelling", INEM conference, Tempe, 13.11.2021
53. "Imagination and fiction in modelling: an epistemic critique", SPSP conference Gent, 3.7.2022
54. "Accounting for the face-value practice", Workshop on the epistemic role of narratives in science, Zurich, 1.9.2022
55. "Imagination and fiction in modelling: an epistemic critique", PSA, Pittsburgh, 13.11.2022
56. "Derivational independence and robustness", INEM conference, Venice, 22.5.2023
57. "A new interpretation of surrogative reasoning" (w. Dun Xiang), EPSA2023, Belgrade, 22.9.2023
58. "Inferential robustness and meta-regression", Economic methodology; models measurement, and interventions, Stanford University, San Francisco, 9.3.2024
59. "Inferential robustness and meta-regression", 7th Economic philosophy conference, Reims, 27.5.2024

## **MANAGEMENT, ORGANIZATIONAL, SERVICE AND THIRD MISSION ACTIVITIES**

### **MANAGEMENT POSITIONS AND COMMITMENTS ASSUMED IN COLLEGIAL BODIES AND COMMISSIONS, IN IMPORTANT PUBLIC AND PRIVATE BODIES AND SCIENTIFIC AND CULTURAL ORGANIZATIONS, OR AT THE UNIVERSITY OR OTHER UNIVERSITIES**

I start this section by listing my employment history and administrative positions. Listing them gives you the necessary background to see what kind of leadership positions I have had. I explain the content of some functions in more detail after the list.

### **Current employment**

Thousand Talent Professor of Philosophy, Nankai University, Tianjin, China 30.10.2018-  
This position is permanent but subject to two performance evaluations within six years, of which the first one was passed in 2022, and they would have been interested in continuing the term but I have informed them that I will be leaving.

### **Previous work experience**

- University researcher

Faculty of the Social Sciences, University of Helsinki 1.1.2018 – 30.10.2018

- Professor of the philosophy of the social sciences (50%)

Practical philosophy, University of Helsinki 15.2.2015-31.12.2017

- Principal investigator

The University of Helsinki three-year grants, a project on Climate ethics and economics

1.1.2014-30.12.2016

- University researcher

Academy of Finland, a project on Models and simulations, Department of Political and

Economic Studies 1.6.2013-31.12.2017. Between 15.2.2015-31.12.2017, the position was 50%.

- University lecturer

The University of Helsinki, Department of Political and Economic Studies 1.1.2013-30.5.2013

- Postdoctoral researcher, University researcher

Academy of Finland, a project on "Strategic voting, a cursed blessing" 1.1.2010-31.12.2012

- Adam Smith Visiting Professor

Department of Philosophy, University of Bayreuth, Germany 15.10.2007-15.2.2008

- Researcher

Academy of Finland, a project on "Trends and tensions in intellectual integration" 1.1.2007-31.12.2009

- Researcher

Academy of Finland, a project on "Economics imperialism" 1.1.2004-31.12.2006

- Doctoral student

Erasmus Institute for Philosophy and Economics 1.1.2002-31.12.2003

- Assistant professor

Department of Social and Moral Philosophy, University of Helsinki, 1.9.1998-30.12.1999

### **Memberships in academic committees and positions of trust**

- Vice head of discipline, Practical philosophy, University of Helsinki, 1.1.2018-30.10.2018

- Director of the Master Programme in Philosophy, University of Helsinki 21.3.2016-30.3.2018

- Vice-Director of the Bachelor Programme in Philosophy, University of Helsinki 21.3.2016-30.3.2018

- Head of the discipline, Practical Philosophy, University of Helsinki 1.3.2015-31.12.2017

- Teaching coordinator for the Centre of Excellence in the Philosophy of the Social Sciences 2012-2015

- Acting as Kustos and as a member of the PhD thesis evaluation committee 2016

- Member (Professor category) of the Department Board, Department of Political and Economic Studies, University of Helsinki 25.3.2015-31.12.2017

- Member of the teaching skill evaluation committee (University of Helsinki, Faculty of the Social Sciences) 1.1.2010-31.12.2017

- Member of the board for the Bachelor Programme in Economics, University of Helsinki 1.3.2016-31.12.2016

- Vice head of the discipline, Social and moral philosophy, Department of Political and Economic Studies 23.2.2014-27.2.2015

- Teaching coordinator for the Centre of Excellence in the Philosophy of the Social Sciences 2012-2017
- Webmaster for International Network for Economic Method 15.2.2008-2011
- Coordinator for the Finnish Graduate School of Philosophy 1.1.1999-31.12.2005
- Coordinator for the Erasmus international exchange program 1.9.1998-30.5.1999
- Vice member for the 'middle category' of the board of the Department of Social and Moral Philosophy, 2002-2004
- Student member of the board of the Department of Social and Moral Philosophy, 1.9.1995-30.5.1997
- Coordinator for Tutkijaliitto, autumn 1996
- Student representative of the foreign students in Institut d'Etudes Politiques, Aix-en-Provence 1.9.1990- 5.6.1991

As noted in the list above, I have overseen the discipline of Practical Philosophy and directed the Bachelor's and Master's programmes in Philosophy at the University of Helsinki. However, what the list does not convey is that I was responsible for designing the Bachelor's and Master's programmes that I subsequently directed. Since these programmes did not exist before I developed them, it is worthwhile to provide some historical context.

Having already coordinated teaching for the Centre of Excellence, I was appointed Professor of the Philosophy of the Social Sciences and, in February 2015, was also nominated Head of the Discipline in Practical Philosophy. Shortly thereafter, the University of Helsinki embarked on a major restructuring initiative. The central aim of this 'big wheel' reform was to streamline the number of educational programmes while introducing a clearer distinction between the Master's and Bachelor's programmes. Consequently, there was a need to create distinct Master's and Bachelor's programmes.

Philosophy at the University of Helsinki has always been divided into two faculties: Practical Philosophy within the Faculty of Social Sciences and Theoretical Philosophy within the Faculty of Arts and Humanities. Given that the minimum intake for an educational programme was set at 40 students, it became clear that the Practical Philosophy programme, with an intake of only 10, needed to merge with another programme. I proposed merging Practical Philosophy with Theoretical Philosophy, and this proposal was accepted by all relevant parties.

Implementing the merger proved challenging due to a lack of clarity regarding the rules and regulations governing the new programmes, especially those joint between two faculties. Philosophers often have strong opinions on which approaches or topics are most valuable, further complicating the process. Additionally, the University of Helsinki underwent significant budget cuts and administrative restructuring in 2016. For example, the administrative personnel responsible for study planning and related tasks within the Faculty of Social Sciences were reduced by half. This drastic reduction in administrative support meant I had to manage the reform with virtually no competent administrative resources. This situation occupied a significant portion of my time from 2015 to 2017.

Given my deep involvement in planning the merger, I drafted the proposals for the course structures for both the Bachelor's and Master's programmes. After extensive negotiations, the changes to my original proposals were minimal.

Achieving a successful outcome in a merger of this scale requires exceptional communication and cooperation skills. While I managed to accomplish many goals, not every initiative was successful. For example, I developed study requirements for a Philosophy, Politics, and

Economics (PPE) programme and attempted to integrate it into the curricula. However, this effort did not succeed primarily due to ongoing disagreements between economists and political scientists.

If you wish to inquire about these issues, Kristian Klockars, who was the Head of Discipline before and after my tenure, represents a different philosophical approach from mine but will likely provide positive feedback about my role as a director. Similarly, Paavo Pylkkänen, who directed the Bachelor's Programme, will probably offer comparable comments.

You may also wonder why I was a member of the Board of the Bachelor's Programme in Economics. The main reason is likely my extensive background in economics, which made me a valuable contact during the administrative restructuring.

My ability to govern and design study programmes is further supported by my previous role as the secretary for the national Graduate Programme in Philosophy in Finland.

In China, I am actively involved in the selection of new doctoral students and permanent staff, participating in these processes twice a year.

### **THIRD MISSION ACTIVITIES**

*(insert type of assignment/commitment, institution, date, duration, etc.)*

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### **CLINICAL CARE ACTIVITIES**

*(indicate, date, duration, role, institution where assistance was provided, etc.)*

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Date

27.7.2024

Place

Helsinki