

Soroush Rafiee Rad

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Research Interests

Areas of Specialization

Mathematical Logic, Formal Epistemology, Probability Theory

Areas of Competence

Decision Theory, Social Choice Theory, Social Epistemology

Education

Ph.D. Tilburg Center for Logic and Philosophy of Science (TiLPS) 2014

Thesis Subject: Formal Epistemology

Thesis Promoter: Prof. Stephan Hartmann

Thesis committee: Prof. Stephan Hartmann, Prof. Luc Bovens, Prof. Igor Douven, Prof. Rohit Parikh, Prof. Sonja Smets, Prof. Jan Sprenger

Ph.D. University of Manchester 2009

Thesis Subject: Probabilistic Logic

Supervisor: Prof. Jeff Paris

Marie Curie Fellowship

B.Sc. in Pure Mathematics

Sharif University of Technology 2004

Appointments

Postdoctoral Researcher, Bayreuth University, Sep 2017-

Research Fellow, Munich Center for Mathematical Philosophy, Feb 2017- Sep 2017

Postdoctoral Researcher, Institute for Logic, Language and Computation, Sep 2014-Feb 2017

Visiting Fellow, Munich Center for Mathematical Philosophy, Nov 2013-Sep 2014

Visiting Researcher, Graduate Center, CUNY, May 2013-July 2013

Visiting Researcher, Center for Reasoning, University of Kent, Nov 2012-Feb 2013

Visiting Researcher, CPNSS, LSE, Sep-Nov 2012

Visiting Researcher, Universite Claude Bernard, May 2008-July 2008

Publications

- Learning Indicative Conditionals (with Stephan Hartmann), under review, *Mind*.
- Anchoring in Deliberation (with Stephan Hartmann), revisions submitted, *Erkenntnis*.
- Maximum Entropy Models of Σ_1 Sentences, *J. Applied Logic*, to appear
- A Logical Analysis of Quantum Voting Protocols (with Sonja Smets and Elaheh Shirinkalam), *Int. J. of Theoretical Physics*, 56(12): 3991–4003, 2017.
- Categorical Equivalence Between Orthomodular Algebras and Orthomodular Lattices (with Joshua Sacks, Kohei Kishida and Shengyang Zhong), *Int. J. of Theoretical Physics*, 56(12): 4060–4072, 2017.
- Equivocation Axiom for First Order Languages, *Studia Logica*, 105(1): 121-152, 2017.
- Voting, Deliberation and Truth (with Stephan Hartmann), *Synthese*, (2016). DOI:10.1007/s11229-016-1268-9
- A Note on the Least Informative Model of a Theory (with Jeff Paris), in *Programs, Proofs, Processes*, CiE 2010, Eds. F. Ferreira, B. Löwe, E. Mayordomo, & L. Mendes Gomes, Springer LNCS 6158: 342—351, 2010.
- Inference Processes for Quantified Predicate Knowledge (with Jeff Paris), in *Logic, Language, Information and Computation*, WoLLIC, Edinburgh, Eds. W. Hodges and R. de Queiroz, Springer LNAI, 5110: 249—259, 2009.

Working papers

- A Qualitative Account of Stability of Belief (with Alexandru Baltag)
 - Dynamic Doxastic Logic for Learning Probabilities (with Alexandru Baltag and Sonja Smets)
 - A Categorical Analysis of Probabilistic Models and Their Bisimulations (with Giovanni Cina)
 - Reasoning with Conflicting Evidence
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Invited Talks

- Anchoring In Deliberation, SEGA workshop, Paris, October 2017
- Learning Probabilities by Observation, Indian Mathematics Consortium, Varanasi,

- December 2016
- A Doxastic Dynamic Logic for Learning Probabilities, LogiCIC Workshop, Amsterdam, November 2016
 - Equivalence Between Hilbert Lattices and Quantum Dynamic Algebras, Tbilisi, June 2016
 - Logics of Probabilistic Updates, Workshop on Reasoning in Social Context, University of Amsterdam, November 2015
 - Forming Rational Judgment on Probabilistic Evidence, Tsinghua University, October 2015
 - Maximum Entropy Models and Probabilistic Belief, Rutgers University, September 2015
 - Voting, Deliberation and Truth: Probabilistic Model group decision making, LogiCIC, workshop, November 2014
 - Learning Conditional Information: A Probabilistic Account, Graduate Center, CUNY, July 2013
 - Reasoning with Inconsistencies; A First Order Account, University of Amsterdam, April 2013
 - Reasoning from Inconsistent Information, University of Manchester, November 2012
 - Inference Processes for First Order Probabilistic Languages, King's College, November 2012
 - Reasoning with Conflicting Evidence, LSE, October 2012
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Professional Services

Journal/Conference Reviewing

I have refereed papers for Synthese, Erkenntnis, Review of Symbolic Logic, Journal of Philosophical Logic, Studia Logica, Journal of Symbolic Logic, Logic Journal of the IGPL, Journal of Applied Logic, Journal of Logic and Computation and Fundamenta Informaticae as well as international workshops including LORI, TARK and WOLLIC.

I have also been part of the program committee for several conferences including LORI 2017, LogiCIC 2015 and 2016.

Conference/Workshop Organisation

I have been involved in the organization of the following conferences, workshops and seminars

- Main coordinator of weekly LIRa seminars at ILLC, Sep 2014- Feb 2017.
- Workshop on Logical Structure of Correlated Information Change, ILLC, 2016
- Workshop on Reasoning in Social Context, ILLC, 2015

- Workshop on Logical Structure of Correlated Information Change, ILLC, 2014
 - Synthese Conference on Qualitative and Quantitative Methods in Formal Epistemology, ILLC, 2014
 - Munich-Tilburg-Sydney conference, Tilburg University 2012
 - Mathlogapp workshop, University of Manchester, 2009
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Teaching and Supervision

Graduate Supervision

- Laura Bizhou van Pol, MSc Thesis (co-supervising with Sonja Smets)
Topic: Quantum Theory and Logic of Questions,
ILLC, Defended July 2017.
- Christian Tueschel, MSc Thesis (co-supervising with Sonja Smets),
Topic: Adoption of IPV6 on Internet Routing Network,
ILLC, Defended October 2017
- Ko Hung Kuan, MSc Thesis (co-supervised with Sonja Smets)
Title: Coherence Preservation: A Threat to Probabilistic Measures of Coherence
ILLC, Defended August 2015
- Amirhossein Sharafi (co-supervised with Sonja Smets)
Topic: Effect Algebras and Quantum Logic
Visiting PhD Student, ILLC, Jan 2017- May 2017
- Elaheh Shirinkalam, (co-supervised with Sonja Smets)
Topic: Verification of Quantum Voting Protocols
Visiting PhD Student, ILLC, Sep 2015- March 2016
- Andres Occhipinti Liberman, Master of Logic Individual Project
Topic: Principles of Uncertain Reasoning,
ILLC, June-November 2016
- Melina Mendoza, Master of Logic individual Project,
Topic: Interpretations of Quantum Mechanics
ILLC, March-August 2016
- Anna Franchini, Master of Logic Individual Project
Topic: Introduction to Category Theory
ILLC, January- July 2016

Thesis Committee

- Illiana Gioulatou, MSc Thesis: Yablo's Absoluteness, Fine Truthmaking Semantics and Hyperintentionality, ILLC 2016
- Benjamin Sparkes, MSc Thesis: Completeness Results for an Inquisitive Doxastic Logic, ILLC 2016
- Roosmarijn Goldbach, MSc Thesis: Modeling Democratic Deliberation, ILLC 2015

Teaching

- Probabilistic Reasoning, Master of Logic Course, ILLC 2016
 - Quantum Logic, Master of Logic Course, ILLC 2016
 - Uncertain Reasoning, Master of Logic Course, ILLC 2015
 - Introduction to Political Philosophy, Ludwig Maximilian University, Munich 2014
 - Rationality, Tilburg University, 2010, 2011
 - Philosophy of Science, Tilburg University, 2011
 - Experts in Complex Society, Tilburg University, 2010
 - Teaching computer-programming languages, Computing Centre, Sharif University of Technology 2002-2005 (C, C++, JAVA, PHP, SQL)
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