

Soroush Rafiee Rad

Institute for Logic, Language and Computation, UvA

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Research Interests

Areas of Specialization

Formal Epistemology, Social Epistemology, Mathematical Logic, Probability Theory, Decision Theory

Areas of Competence

Political Philosophy, Statistics, Inquisitive Semantics

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, Institute for Logic, Language and Computation, Sep 2014-

Research 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

- Maximum Entropy Models of Σ_1 Sentences, under review.
- Learning Indicative Conditionals (with Stephan Hartmann), under review.
- Anchoring in Deliberation (with Stephan Hartmann), under review.
- Verification of Quantum Voting Protocols in Probabilistic Quantum Dynamic Logic (with Smets and Shirinkalam), Int. J. of Theoretical Physics, to appear
- Categorical Equivalence Between Orthomodular Algebras and Orthomodular Lattices (with Sacks, Kishida and Zhong), Int. J. of Theoretical Physics, to appear
- Voting, Deliberation and Truth (with Stephan Hartmann), Synthese, (2016) online first: doi:10.1007/s11229-016-1268-9
- Equivocation Axiom for First Order Languages, Studia Logica (2016), Online first: DOI: 10.1007/s11225-016-9684-x
- 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, pp. 342-351
- 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, pp. 249-259

Working papers

- Logic of Statistical Learning (with Baltag, Smets)
 - A Categorical Analysis of Probabilistic Models and Their Bisimulations (with Giovanni Cina)
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Invited Talks

- 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

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

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

Teaching and Supervision

Graduate Supervision

- Laura Bizhou van Pol, MSc Thesis (co-supervising with Sonja Smets)
Topic: Quantum Theory and Logic of Questions,
ILLC, In Progress
- Christian Tueschel, MSc Thesis (co-supervising with Sonja Smets),
Topic: Simulating the Dynamics of Information in BGP Network,
ILLC, In Progress
- 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, 2011, 2010
 - 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,
 - Java Script
 - PHP
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