

RESEARCH INTERESTS

Formal Epistemology, Evidence-based Belief Revision, Multi-agent Systems, Dynamic Epistemic Logic, Justification Logic, Epistemic Logic, Modal Logic

EDUCATION

CUNY Graduate Center New York, New York, USA
Ph.D., Computer Science 8/2002–5/2008

CUNY Graduate Center New York, New York, USA
M.Phil., Computer Science 5/2007

Cornell University Ithaca, New York, USA
B.S., Computer Science; Mathematics Specialization 8/1998–5/2002

EXPERIENCE

University of Amsterdam Amsterdam, The Netherlands
Postdoctoral Researcher, Inst. for Logic, Language and Computation (ILLC) 1/2012–12/2014

- Funded by a €250,000 NWO Veni Grant (see GRANTS AND AWARDS).

University of British Columbia Vancouver, Canada
Postdoctoral Fellow, Department of Philosophy 2/2011–9/2012

University of Groningen Groningen, The Netherlands
Postdoctoral Researcher, Faculty of Philosophy 2/2009–1/2011

CUNY Graduate Center New York, New York, USA
Grader, Ph.D. Program in Computer Science 8/2003–12/2007

- Theoretical Computer Science: Fall 2007, Fall 2006, Fall 2005, Fall 2004, Fall 2003.
- Analysis of Algorithms: Fall 2007, Fall 2006, Fall 2005, Fall 2004, Fall 2003.
- Logical Foundations of AI: Spring 2004.

Hunter College, CUNY New York, New York, USA
Visiting Lecturer, Department of Computer Science 8/2003–5/2005

- CSCI 120, Introduction to Computers: Spring 2005.
- CSCI 235, Software Design and Analysis 2: Fall 2004, Spring 2004, Fall 2003.

Cornell University Ithaca, New York, USA
Grader, Department of Mathematics 1/2002–5/2002

- Calculus 111: Spring 2002.

Cornell Univ. Academic Computing Center, Engineering Library Ithaca, New York, USA
Consultant (Student Employee) 1/2000–12/2001

TEACHING AND GRADING

- Teaching: 2003–2005 at Hunter College, CUNY (see EXPERIENCE)
- Grading: 2003–2007 at CUNY Graduate Center, 2002 at Cornell University (see EXPERIENCE)

GRANTS AND AWARDS

- Recipient, 2012–2014 Innovational Research Incentives Scheme Veni Grant (€250,000), Netherlands Organization for Scientific Research (NWO, *Nederlandse Organisatie voor Wetenschappelijk*), Den Haag, The Netherlands.
- Recipient, 2007–2008 Sponsored Dissertation Fellowship (USD\$18,000), CUNY Graduate Center, New York, New York, USA.
- Recipient, 2006–2007 Doctoral Student Research Grant (USD\$1,500), CUNY Graduate Center, New York, New York, USA.
- Research Assistant, 2007 CUNY Collaborative Incentive Research Grant: “Justification Logic and Applications” (PI: Sergei Artemov; co-PI: Melvin Fitting), New York, New York, USA.
- Research Assistant, 2006 CUNY Community College Collaborative Incentive Research Grant: “Mathematical Theory of Justification” (PI: Elena Nogina; co-PI: Sergei Artemov), New York, New York, USA.
- Research Assistant, 2005 CUNY Community College Collaborative Incentive Research Grant: “Mathematical Foundations of Knowledge Representation” (PI: Elena Nogina; co-PI: Sergei Artemov), New York, New York, USA.
- Recipient, 2002–2007 Graduate Center Fellowship (USD\$21,700/yr for five years), CUNY Graduate Center, New York, New York, USA.

ORGANIZATIONAL ACTIVITY

- Program Committee Member, 10th Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2012), Sevilla, Spain, 18–20 June 2012.
- Program Committee Member, 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011), Barcelona, Spain, 16–22 July 2011.
- Local Organizing Committee Member, 13th Conference on Theoretical Aspects of Rationality and Knowledge (TARK 2011), Groningen, The Netherlands, 11–15 July 2011.
- Editor, *PHIBOOK: The Yearbook of Philosophical Logic*, Automatic Press/VIP. (Defunct)
- Co-chair, Logic and Computation, *12th ESSLLI Student Session*, Dublin, Ireland, 6–17 August 2007.

REVIEWER ACTIVITY

- **Journals (8 total):** (1) *Annals of Pure and Applied Logic*; (2) *Fundamenta Informaticae*; (3) *Journal of Applied Non-classical Logics*; (4) *Journal of Autonomous Agents and Multi-Agent Systems*; (5) *Journal of Logic and Computation*; (6) *The Logic Journal of the IGPL*; (7) *Logique et Analyse*; (8) *Synthese*.
- **Conferences (10 total):** (1) The 26th Annual IEEE Symposium on Logic in Computer Science (LICS 2011), University of Toronto, Toronto, Ontario, Canada, 21–24 June 2011; (2) The Twenty-Second International Joint Conference on Artificial Intelligence (IJCAI 2011), Centre Convencions Internacional Barcelona (CCIB), Barcelona, Spain, 16–22 July 2011; (3) The Tenth International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2011), Taipei International Convention Center, Taipei, Taiwan, 2–6 May 2011; (4) Advances in Modal Logic 2010 (AiML 2010), Steklov Mathematical Institute, Laboratoire J.-V.Poncelet and Moscow Center for Continuous Mathematical Education, Moscow, Russia, 24–27 August 2010; (5) 15th ESSLLI Student Session (ESSLLI 2010 StuS), University of Copenhagen, Copenhagen, Denmark, 9–20 August 2010; (6) 12th Conference on Theoretical Aspects of Rationality and Knowledge (TARK XII), Stanford University, Stanford, California, USA, 6–8 July 2009; (7) 16th Workshop on Logic, Language, Information, and Computation (WoLLIC 2009), National Center of Sciences, Tokyo, Japan, 21–24 June 2009; (8) 2009 Symposium on Logical Foundations of Computer Science (LFCS'09), Deerfield Beach, Florida, USA, 3–6 January 2009; (9) 2nd International Computer Science Symposium in Russia (CSR 2007), Ekaterinburg, Russia, 3–7 September 2007; (10) 11th Conference on Theoretical Aspects of Rationality and Knowledge (TARK XI), Faculté Universitaires Saint-Louis, Brussels, Belgium, 25–27 June 2007.
- **Book Reviews (1 total):** (1) Vincent F. Hendricks and John Symons (Eds.-in-Chief), Jaakko Hintikka (Honorary Ed.), Dirk van Dalen, Theo A.F. Kuipers, Teddy Seidenfeld, Patrick Suppes, and Jan Wolenski (Eds.), *Synthese Library*, Springer, February 2009.

INVITED LECTURES

12. “Arrow Update Logic.” ICE-TCS Lectures Series. Icelandic Centre of Excellence in Theoretical Computer Science (ICE-TCS), Reykjavík University, Reykjavík, Iceland, 17 September 2010.
11. “Multi-Agent Justification Logic: Communication and Evidence Elimination.” ICE-TCS Workshop on Logic and Concurrency. Icelandic Centre of Excellence in Theoretical Computer Science (ICE-TCS), Reykjavík University, Reykjavík, Iceland, 15 September 2010.
10. “Multi-Agent Justification Logic: Communication and Evidence Elimination.” Information Processing, Rational Beliefs and Social Interaction (10w2133). Banff International Research Station (BIRS) for Mathematical Innovation and Discovery, Banff Centre, Banff, Alberta, Canada, 28 August 2010.
9. “How to Tell Time in Epistemic Logic.” Work-in-Progress Workshop of Professor Margaret Anne Cameron, Department of Philosophy, University of Victoria. Department of Philosophy, University of Victoria, Victoria, British Columbia, Canada, 10 August 2010.
8. “Evidence Elimination in Justification Logic.” Justification Logics Seminar. Research Group for Theoretical Computer Science and Logic, Institute of Computer Science and Applied Mathematics, Faculty of Science, University of Bern, Bern, Switzerland, 20 May 2010.

7. “Evidence Elimination in Multi-Agent Justification Logic.” Logic and Interactive Rationality (LIRA) seminar. Institute for Logic, Language & Computation (ILLC), University of Amsterdam, Amsterdam, The Netherlands, 17 February 2010.
6. “Dynamic Epistemic Logic.” Summer 2009 seminar of Professor Ray Jennings, Department of Philosophy, Simon Fraser University. Simon Fraser University, Burnaby, British Columbia, Canada, 27 July 2009.
5. “‘Strategies Made Explicit in Dynamic Game Logic’: A Paper by Sujata Ghosh.” The P. van Emde Boas Swap Session of The Third Workshop in Decisions, Games, & Logic (DGL’09). Université de Lausanne, Faculté des Hautes Etudes Commerciales (HEC Lausanne), Lausanne, Switzerland, 15 June 2009.
4. “Simple Evidence Derogation in Justification Logic.” Groningen Logic Colloquium (Grolog). University of Groningen, Groningen, The Netherlands, 19 February 2009.
3. “Reasoning About Evidence in Hypothetical Situations.” Epistemology Meets Logic, Informally. Stanford University, Stanford, California, USA, 31 May 2008.
2. “Epistemic Updates in Justification Logics.” Dynamic Logic Montréal. Université du Québec à Montréal, Montréal, Québec, Canada, 20 June 2007.
1. “Propositional Games with Explicit Strategies.” 13th Workshop on Games, Logic, Language, and Computation (GLLC 14). University of Amsterdam, Amsterdam, The Netherlands, 3 October 2006.

CONFERENCE LECTURES

5. “Evidence Elimination in Multi-Agent Justification Logic.” 12th Conference on Theoretical Aspects of Rationality and Knowledge (TARK XII). Stanford University, Stanford, California, USA, 7 July 2009.
4. “The Relative Expressivity of Public and Private Communication in BMS Logic.” Workshop on Logic, Rationality, and Interaction (LORI-I). Beijing Normal University, Beijing, China, 9 August 2007.
3. “Bisimulation and Public Announcements in Logics of Explicit Knowledge.” Workshop on Rationality and Knowledge, 18th European Summer School in Logic, Language, and Information (ESSLLI 2006). Universidad de Málaga, Málaga, Spain, 8 August 2006.
2. “Semantic Cut-Elimination for Two Explicit Modal Logics.” 11th Student Session of the European Summer School in Logic, Language, and Information (ESSLLI 2006 StuS). Universidad de Málaga, Málaga, Spain, 31 July 2006.
1. “Propositional Games with Explicit Strategies.” 13th Workshop on Logic, Language, Information, and Computation (WoLLIC 2006). Stanford University, Stanford, California, USA, 19 July 2006.

OTHER LECTURES

9. “Expressivity Questions in Dynamic Epistemic Logic II.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 4 September 2007.
8. “Expressivity Questions in Dynamic Epistemic Logic I.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 28 August 2007.

7. “Propositional Games and Explicit Strategies.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 2 May 2006.
6. “Bisimulation and Public Announcements in Logics of Explicit Knowledge.” Seminar in Computational Logic. CUNY Graduate Center. New York, New York, USA, 14 March 2006.
5. “Public Announcements in Logics of Explicit Knowledge.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 25 October 2005.
4. “Updates in the Logic of Knowledge.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 5 April 2005.
3. “On Game Semantics for the Logic of Proofs.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 14 October 2003.
2. “Overview of Robert Constable’s *Types in Logic, Mathematics, and Programming* in Sam Buss (Ed.) *Handbook of Proof Theory*, Elsevier Science, 1997.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 30 September 2003.
1. “LP Tableaux Revisited.” Seminar in Computational Logic. CUNY Graduate Center, New York, New York, USA, 16 September 2003.

WORKING PAPERS

2. (with Joshua Sack and Audrey Yap) Dynamic Epistemic Temporal Logic. Extended Manuscript, September 2010.
1. A Survey of Dynamic Epistemic Logic. Manuscript, September 2008.

REFEREED JOURNAL/POST-CONFERENCE PAPERS

8. (with Barteld Kooi) Arrow Update Logic. *Review of Symbolic Logic*, 4(4):536–559, 2011. doi:10.1017/S1755020311000189
7. Multi-Agent Justification Logic: Communication and Evidence Elimination. *Synthese*, Online First July 2011. doi:10.1007/s11229-011-9968-7
6. Public Communication in Justification Logic. *Journal of Logic and Computation*, 21(6):1005–1034, 2011. doi:10.1093/logcom/exq026
5. (with Joshua Sack and Audrey Yap) Dynamic Epistemic Temporal Logic. In X. He, J. Horty, and E. Pacuit, editors, *Logic, Rationality, and Interaction: Second International Workshop, LORI 2009, Chongqing, China, October 8–11, 2009, Proceedings (LORI-II)*, volume 5834/2009 of *Lecture Notes in Computer Science*, pages 263–277. Springer Berlin/Heidelberg, 2009. doi:10.1007/978-3-642-04893-7_21
4. Propositional Games with Explicit Strategies. *Information and Computation*, 207(2):1015–1043, 2009. doi:10.1016/j.ic.2008.11.005
3. Public and Private Communication are Different: Results on Relative Expressivity. *Synthese*, 165(2):225–245, 2008. doi:10.1007/s11229-008-9395-6
2. The Relative Expressivity of Public and Private Communication in BMS Logic. In J. van Benthem, S. Ju, and F. Veltman, editors, *A Meeting of the Minds: Proceedings of the Workshop on Logic, Rationality, and Interaction, Beijing, 2007 (LORI-I)*, volume 8 of *Texts in Computer Science*, pages 213–229. College Publications, 2007.

1. Propositional Games with Explicit Strategies. In G. Mints and R. de Queiroz, editors, *Proceedings of the 13th Workshop on Logic, Language, Information, and Computation (WoLLIC 2006)*, volume 165 of *Electronic Notes in Theoretical Computer Science*, pages 133–144, Stanford, California, USA, 2006. doi:10.1016/j.entcs.2006.05.042

REFEREED CONFERENCE PROCEEDINGS

4. (with Barteld Kooi) Generalized Arrow Update Logic. In Krzysztof R. Apt, editor, *Proceedings of the 13th Conference of Theoretical Aspects of Rationality and Knowledge (TARK XIII)*, pages 205–211, Groningen, The Netherlands, 2011. ACM. doi:10.1145/2000378.2000403
3. Evidence Elimination in Multi-Agent Justification Logic. In Aviad Heifetz, editor, *Proceedings of the 12th Conference of Theoretical Aspects of Rationality and Knowledge (TARK XIII)*, pages 227–236, Stanford, California, USA, 2009. ACM. doi:10.1145/1562814.1562845
2. Bisimulation and Public Announcements in Logics of Explicit Knowledge. In S.N. Artemov and R. Parikh, editors, *Proceedings of the Workshop on Rationality and Knowledge, 18th European Summer School in Logic, Language, and Information (ESSLLI 2006)*, Málaga, Spain, 2006.
1. Semantic Cut-Elimination for Two Explicit Modal Logics. In J. Huitink and S. Katrenko, editors, *Proceedings of the 11th ESSLLI Student Session (ESSLLI 2006 StuS)*, Málaga, Spain, 2006.

OTHER WORKS

8. Simple Evidence Elimination in Justification Logic. In P. Girard, O. Roy, and M. Marion, editors, *Dynamic Formal Epistemology*, volume 351 of *Synthese Library*, chapter 7, pages 127–149. Springer, 2011. Invited submission. doi:10.1007/978-94-007-0074-1
7. (with Samuel Bucheli, Roman Kuznets, Joshua Sack, and Thomas Studer) Justified Belief Change. In X. Arrazola and M. Ponte, editors, *Proceedings of the Second ILCLI International Workshop on Logic and Philosophy of Knowledge, Communication, and Action (LogKCA-10)*. The University of the Basque Country Press, 2010.
6. Dynamic Epistemic Logic with Justification. PhD thesis, The City University of New York, 2008.
5. Public and Private Communication are Different: Results on Relative Expressivity. Technical Report TR-2008001, CUNY Ph.D. Program in Computer Science, 2008.
4. Public Communication in Justification Logic. Technical Report TR-2007025, CUNY Ph.D. Program in Computer Science, 2007.
3. The Relative Expressivity of Public and Private Communication in BMS Logic. Technical Report TR-2007012, CUNY Ph.D. Program in Computer Science, 2007.
2. Propositional Games with Explicit Strategies. Technical Report TR-2005012, CUNY Ph.D. Program in Computer Science, 2005.
1. Tableaux for the Logic of Proofs. Technical Report TR-2004001, CUNY Ph.D. Program in Computer Science, 2004.