

ROMAN KUZNETS

CURRICULUM VITÆ

Theory and Logic Group
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Citation statistics and links to online profiles (as of May 8, 2017)

	Papers	Citations	h-index	Non-self citations	Non-self citation h-index
Google Scholar Profile	34	537	14		
Scopus Profile	24	146	8	97	7
MathSciNet Profile	23	71	5		4
zbMATH Profile	21	63	5		3
Web of Science	17	79	5	55	5
ACM DL Profile	13	62	5		4
ResearchGate Profile	36	370	12		10
RG Score: 16.48 (62.5% percentile); RG Reach: 468 (69 direct)					

1. Education

08/2002–05/2008: Ph.D. student.

Graduate Center, City University of New York, abbr. CUNY (USA).

Ph.D. Program in Computer Science;

Master of Philosophy in Computer Science, October 2007;

Ph.D. in Computer Science, May 2008.

Ph.D. thesis *Complexity Issues in Justification Logic*,
supervised by S. Artemov.

11/2000–08/2002: Ph.D. student.

Lomonosov Moscow State University (Russia),

Faculty of Mechanics and Mathematics,

Department of Mathematical Logic and Theory of Algorithms.

09/1995–06/2000: university student.

Lomonosov Moscow State University (Russia),

Faculty of Mechanics and Mathematics;

Diploma of Specialist in Mathematics (equivalent to B. Sc. and M. Sc.), June 2000;

graduated with Highest Honors.

2. Employment Record

- 05/2017–present*: Project Assistant.
TU Wien, formerly translated as Vienna University of Technology (Austria),
Institute of Computer Engineering,
Embedded Computing Systems Group.
- 06/2014–present*: Project Assistant.
TU Wien, formerly translated as Vienna University of Technology (Austria),
Institute of Computer Languages,
Theory and Logic Group.
- 10/2010–02/2014*: Research Assistant.
University of Bern (Switzerland),
Institute of Computer Science and Applied Mathematics,
Logic and Theory Group (formerly Research Group for Theoretical Computer Science and Logic).
- 05/2008–09/2010*: Postdoctoral Researcher.
University of Bern (Switzerland),
Institute of Computer Science and Applied Mathematics,
Research Group for Theoretical Computer Science and Logic.
- 09/2007–08/2008*: Writing Fellow.
Lehman College, CUNY (USA).
Assisted faculty in implementing Writing Across the Curriculum (WAC)/ Writing In the Disciplines (WID) initiatives in their courses.
- 08/2003–07/2007*: Adjunct Lecturer.
City College of New York, CUNY (USA),
Department of Mathematics.
- 01/2006–06/2006*: Adjunct College Laboratory Technician.
City College of New York, CUNY (USA),
Center for Algorithms and Interactive Scientific Software (CAISS).
Worked on Magnus software for computational group theory.
- 02/2001–05/2002*: Adjunct Lecturer.
Lomonosov Moscow State University (Russia),
Faculty of Mechanics and Mathematics,
Department of Mathematical Logic and Theory of Algorithms.
- 09/1998–05/2002*: Organizing Committee Member and Editor.
Moscow Center for Continuous Mathematical Education (Russia).
Organized regional and international mathematics competitions and summer schools for gifted school students. Edited a series of mathematical publications geared at gifted high school students.
- 09/1998–05/2002*: Mathematics Teacher of extra-curricular mathematics courses.
Junior Faculty of Mechanics and Mathematics, Lomonosov Moscow State University and
Moscow School 218 (Russia).
Taught advanced mathematics to gifted middle- and high-school students.
Mentored future diploma recipients of regional mathematics competitions.

3. Personal Grants and Awards

02/2015–01/2017:	Lise Meitner Grant , Austrian Science Fund, abbr. FWF (Austria) <i>Nested Sequents for Interpolation and Realization</i>	€157,380
01/2011–12/2013:	Ambizione Grant , Swiss National Science Foundation, abbr. SNSF (Switzerland) <i>Refining Reasoning via Justification Extraction: A Proof-Theoretic Approach</i>	CHF 485,616
02/2008–01/2009:	Research Grant for Doctoral Students, CUNY Graduate Center (USA)	\$1,500
02/2006–01/2007:	Research Grant for Doctoral Students, CUNY Graduate Center (USA)	\$1,500
09/2002–05/2006:	Robert E. Gilleece Fellowship , CUNY Graduate Center (USA)	\$64,000
09/1998–05/2000:	Lomonosov Fellowship from Lomonosov Moscow State University (Russia)	

4. Research Grant Participation

05/2017–present:	Project Assistant, FWF RiSE/SHiNE National Research Network (Austria) Project Part <i>Reconciling Distributed and Real-Time Computing</i> , PI: U. Schmid	
05/2017–present:	Project Assistant, FWF START Grant (Austria), <i>Non Classical Proofs: Theory, Applications and Tools</i> , PI: A. Ciabattoni	
01/2016–12/2017:	Principal investigator , Federal Ministry of Science, Research and Economy (Austria) and Ministry of Education, Higher Education and Research (France) Austrian–French Scientific & Technological Cooperation <i>Analytic Calculi for Modal Logics</i> , PIs: R. Kuznets and L. Straßburger	EUR 11,552
02/2017–05/2017:	Project Assistant, FWF Grant (Austria) <i>A Logical Framework for Dialogue Games</i> , PI: C. Fermüller	
12/2014–01/2015:	Project Assistant, FWF START Grant (Austria), <i>Non Classical Proofs: Theory, Applications and Tools</i> , PI: A. Ciabattoni	
09/2014–11/2014:	Project Assistant, FWF Grant (Austria) <i>A Logical Framework for Dialogue Games</i> , PI: C. Fermüller	
06/2014–08/2014:	Project Assistant, FWF START Grant (Austria), <i>Non Classical Proofs: Theory, Applications and Tools</i> , PI: A. Ciabattoni	
05/2014–04/2017:	Co-Applicant, SNSF Grant (Switzerland) <i>Structural Proof Theory and the Logic of Proofs</i> , PI: G. Jäger	CHF 456,798
05/2011–04/2014:	Co-Applicant, SNSF Grant (Switzerland) Swiss National Science Foundation Grant (Switzerland) <i>Structural Proof Theory and the Logic of Proofs</i> , PI: G. Jäger	CHF 570,000
04/2010–09/2012:	Co-Applicant State Secretariat for Education, Research and Innovation (Switzerland) Swiss–Russian Scientific and Technological Cooperation Programme, Joint Research Project <i>Computational Proof Theory</i> , PIs: G. Jäger and V. Shehtman	CHF 174,335
05/2008–09/2010:	Research Assistant, SNSF Grant (Switzerland) <i>Structural Proof Theory and the Logic of Proofs</i> , PI: G. Jäger	
01/2008–04/2008:	Research Assistant, CUNY Collaborative Incentive Research Grant (USA) <i>Justification Logic and Applications</i> , PI: S. Artemov	
11/2006–04/2007:	Research Assistant, CUNY Community College Collaborative Incentive Research Grant (USA) <i>Mathematical Theory of Justification</i> , PI: E. Nogina	
04/2005–06/2005:	Research Assistant, CUNY Community College Collaborative Incentive Research Grant (USA) <i>Mathematical Foundations of Knowledge Representation</i> , PI: E. Nogina	
07/2004–03/2005:	Research Assistant, PSC-CUNY Research Grant (USA) <i>Windows Scheduling for Push Systems and Media-on-Demand</i> , PI: A. Bar-Noy	
11/2002–02/2003:	Research Assistant, PSC-CUNY Research Grant (USA) <i>Windows Scheduling for Push Systems and Media-on-Demand</i> , PI: A. Bar-Noy	
09/2000–05/2002:	Research Assistant, Steklov Mathematical Institute Research Grant (Russia)	

5. College Level Teaching and Mentoring

Bachelor Courses and Seminars, Lecturer

- Introduction to Programming seminar with *Pascal* component (Spring 2001, Fall 2001, and Spring 2002).
Department of Theoretical and Applied Linguistics, Faculty of Philology, Lomonosov Moscow State University (Russia).
- Precalculus (Fall 2003, Summer 2004, Fall 2004, and Fall 2005).
Department of Mathematics, City College of New York, CUNY (USA).
- Calculus I (Spring 2004, Summer 2004, and Fall 2004).
Department of Mathematics, City College of New York, CUNY (USA).
- Calculus II (Spring 2005).
Department of Mathematics, City College of New York, CUNY (USA).
- Calculus III with *MATLAB* component (Spring 2006, Summer 2006, Fall 2006, and Summer 2007).
Department of Mathematics, City College of New York, CUNY (USA).
- Mathematics for the Contemporary World (Fall 2005).
Department of Mathematics, City College of New York, CUNY (USA).
- Introduction into Computer Science (Fall 2011, Fall 2012, and Fall 2013: one in a series of lectures).
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).

Master Courses, Lecturer

- Mathematical Foundations in Algebra and Geometry with *the Geometer's Sketchpad* component (Fall 2006 and Spring 2007).
Department of Secondary Education, City College of New York, CUNY (USA).
- Mathematical Foundations in Arithmetic (Summer 2007).
Department of Secondary Education, City College of New York, CUNY (USA).
- Epistemic Logic (Fall 2011, taught jointly with G. Jäger).
Swiss Joint Master of Science in Computer Science, University of Bern (Switzerland).
- Epistemic Logic and Communication (Winter 2016).
Faculty of Informatics, TU Wien (Austria).

Master Courses and Seminars, Assistant

- Theoretical Computer Science and Logic Seminar (Spring 2009).
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Modal Fixed Point Logics (Fall 2009).
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Justification Logics Seminar (Spring 2010).
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).

Doctoral Courses, Assistant

- Logical Foundations of Artificial Intelligence (Spring 2006 and Spring 2007).
Ph.D. Program in Computer Science, CUNY Graduate Center (USA).

Ph.D. Thesis Co-Refereeing

- A. Kashev, *Justification with Nominals*
Institute of Computer Science, University of Bern (Switzerland).

Student Mentoring, Assistance and Co-Supervision

- Bachelor thesis of M. Pfeuti, *The Logic of Justified Belief*
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Bachelor thesis of S. Bünzli, *The Problem of Logical Omniscience*
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Diploma¹ thesis of C. Pulver, *Self-Referentiality in Contraction-free Fragments of Modal Logic S_4*
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Master's thesis of A. Borg, *Realizing Negative Introspection into Justification Logic: Proof-Theoretic Approach*
Faculty of Informatics, TU Wien (Austria).
- Ph.D. thesis of S. Bucheli, *Justification Logics with Common Knowledge*
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).
- Ph.D. thesis of R. Goetschi, *On the Realization and Classification of Justification Logics*
Institute of Computer Science and Applied Mathematics, University of Bern (Switzerland).

¹Swiss degree similar to a Master's degree

6. Professional Service***Program Committee Chair***

Workshop *Gentzen Systems and Beyond*. July 2014

Program Committee Member

Conference *Advances in Modal Logic*. 2016–present

Vienna Center for Logic and Algorithms (VCLA) International Student Awards. 2014–present

LFCS: Symposium on Logical Foundations of Computer Science. 2013–present

ISRALOG: Research Workshop of the Israel Science Foundation. October 2017

TAMC: Conference on Theory and Applications of Models of Computation. April 2017

Symposium *Advances in Proof Theory*. December 2013

Workshop *Explicit Paradigms in Logic and Computer Science*. June 2012

Workshop *Gentzen Systems and Beyond*. July 2011

Organizing Committee

ALCOP: Algebra and Coalgebra meet Proof Theory Vienna, Austria, April 2016

LATD: Conference of the working group on Mathematical Fuzzy Logic
“Logic, Algebra and Truth Degrees” Vienna, Austria, July 2014

Tableaux: International Conference on
Automated Reasoning with Analytic Tableaux and Related Methods Bern, Switzerland, July 2011

LFCS: Symposium on Logical Foundations of Computer Science New York, NY, USA, June 2007

Journal Refereeing (see verified peer review record at <http://publons.com/a/1201399/>)

Annals of Pure and Applied Logic (multiple)

ACM Transactions on Computational Logic

Archive for Mathematical Logic (multiple)

Journal of Applied Non-Classical Logics (multiple)

Journal of Logic and Computation (multiple)

Journal of Logic, Language and Information (multiple)

Journal of Philosophical Logic

Logic Journal of the IGPL (multiple)

Mathematical Logic Quarterly

Review of Symbolic Logic (multiple)

Studia Logica (multiple)

Synthese (multiple)

External Reviewer for Conferences

AiML (2006, 2012): Advances in Modal Logic

CSL (2007, 2013): EACSL Annual Conference on Computer Science and Logic

CSL–LICS (2014): Joint Meeting of the EACSL Annual Conference on Computer Science Logic (CSL)
and the Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)

CSR (2007, 2010, 2014): International Computer Science Symposium in Russia

FoSSaCS (2015): International Conference on Foundations of Software Science and Computation Structures

FSTTCS (2009): Foundations of Software Technology and Theoretical Computer Science Conference

ICLA (2017): Indian Conference on Logic and its Applications

IJCAR (2010, 2012, 2016): International Joint Conference on Automated Reasoning

LICS (2015, 2016): Annual ACM/IEEE Symposium on Logic in Computer Science

LPAR (2010): International Conference on Logic for Programming, Artificial Intelligence and Reasoning

LSFA (2015): Workshop on Logical and Semantic Frameworks, with Applications

M4M (2009): Methods for Modalities Workshop

MFCS (2014): International Symposium on Mathematical Foundations of Computer Science

STACS (2015): Symposium on Theoretical Aspects of Computer Science

Tableaux (2011, 2013, 2015): International Conference on Automated Reasoning with Analytic Tableaux
and Related Methods

TbiLLC (2015): International Tbilisi Symposium on Language, Logic and Computation

WoLLIC (2010, 2011, 2014, 2017): Workshop on Logic, Language, Information and Computation

7. Membership in Professional Societies

06/2015–present: **KGS:** Kurt Gödel Society

09/2013–present: **DVMLG:** German Society of Mathematical Logic and Foundations of Natural Sciences

09/2013–present: **DMV:** Mathematical Logic Group of German Mathematical Society

05/2009–present: **SSLPS:** Swiss Society for Logic and Philosophy of Science

02/2004–present: **ASL:** Association for Symbolic Logic

8. Languages

English (near native), German (advanced), Russian (native)

9. Publications

Book chapter

- b1 Craig interpolation via hypersequents
In D. Probst and P. Schuster, eds.,
Concepts of Proof in Mathematics, Philosophy, and Computer Science,
volume 6 of *Ontos Mathematical Logic*, pages 193–214. De Gruyter, 2016.
doi:10.1515/9781501502620-012.

Journal publications

- j1 Grafting hypersequents onto nested sequents (with B. Lellmann)
Logic Journal of the IGPL, 24(3):375–423, June 2016.
doi:10.1093/jigpal/jzw005.
- j2 Weak arithmetical interpretations for the Logic of Proofs (with T. Studer)
Logic Journal of the IGPL, 24(3):424–440, June 2016.
doi:10.1093/jigpal/jzw002.
- j3 Modal interpolation via nested sequents (with M. Fitting)
Annals of Pure and Applied Logic, 166(3):274–305, March 2015.
doi:10.1016/j.apal.2014.11.002.
- j4 Realizing public announcements by justifications (with S. Bucheli and T. Studer)
Journal of Computer and System Sciences, 80(6):1046–1066, September 2014.
doi:10.1016/j.jcss.2014.04.001.
- j5 Logical omniscience as infeasibility (with S. Artemov)
Annals of Pure and Applied Logic, 165(1):6–25, January 2014.
doi:10.1016/j.apal.2013.07.003.
- j6 Realization for justification logics via nested sequents: Modularity through embedding (with R. Goetschi)
Annals of Pure and Applied Logic, 163(9):1271–1298, September 2012.
doi:10.1016/j.apal.2012.02.002 (full text via Elsevier Open Archive).
- j7 Lower complexity bounds in justification logic (with S. R. Buss)
Annals of Pure and Applied Logic, 163(7):888–905, July 2012.
doi:10.1016/j.apal.2011.09.010 (full text via Elsevier Open Archive).
- j8 Justifications for common knowledge (with S. Bucheli and T. Studer)
Journal of Applied Non-Classical Logics, 21(1):35–60, January–March 2011.
doi:10.3166/JANCL.21.35-60.
- j9 Self-referential justifications in epistemic logic
Theory of Computing Systems, 46(4):636–661, May 2010.
doi:10.1007/s00224-009-9209-3.
Full text is available through this link via Springer Nature SharedIt initiative.
- j10 Making knowledge explicit: How hard it is (with V. Brezhnev)
Theoretical Computer Science, 357(1–3):23–34, July 2006.
doi:10.1016/j.tcs.2006.03.010 (full text via Elsevier Open Archive).

Peer-reviewed post-conference volume

- c1 Decidability for justification logics revisited (with S. Bucheli and T. Studer)
In G. Bezhaniashvili et al., eds.,
Logic, Language, and Computation, 9th International Tbilisi Symposium on Logic, Language, and Computation, Tbilisi 2011, Kutaisi, Georgia, September 26–30, 2011, Revised Selected Papers,
volume 7758 of *Lecture Notes in Computer Science*, pages 166–181. Springer, 2013.
doi:10.1007/978-3-642-36976-6_12.

Peer-reviewed conference publications

- p1 Proving Craig and Lyndon interpolation using labelled sequent calculi
In L. Michael and A. Kakas, eds.,
Logics in Artificial Intelligence, 15th European Conference, JELIA 2016, Larnaca, Cyprus, November 9–11, 2016, Proceedings,
volume 10021 of *Lecture Notes in Artificial Intelligence*, pages 320–335. Springer, 2016.
doi:10.1007/978-3-319-48758-8_21.
- p2 Interpolation method for multicomponent sequent calculi
In S. Artemov and A. Nerode, eds.,
Logical Foundations of Computer Science, International Symposium, LFCS 2016, Deerfield Beach, FL, USA, January 4–7, 2016, Proceedings,
volume 9537 of *Lecture Notes in Computer Science*, pages 202–218. Springer, 2016.
doi:10.1007/978-3-319-27683-0_15.
- p3 Realization theorems for justification logics: Full modularity (with A. Borg)
In H. De Nivelle, ed.,
Automated Reasoning with Analytic Tableaux and Related Methods, 24th International Conference, TABLEAUX 2015, Wrocław, Poland, September 21–24, 2015, Proceedings,
volume 9323 of *Lecture Notes in Artificial Intelligence*, pages 221–236. Springer, 2015.
doi:10.1007/978-3-319-24312-2_16.
- p4 Update as evidence: Belief expansion (with T. Studer)
In S. Artemov and A. Nerode, eds.,
Logical Foundations of Computer Science, International Symposium, LFCS 2013, San Diego, CA, USA, January 6–8, 2013, Proceedings,
volume 7734 of *Lecture Notes in Computer Science*, pages 266–279. Springer, 2013.
doi:10.1007/978-3-642-35722-0_19.
- p5 Justifications, ontology, and conservativity (with T. Studer)
In T. Bolander et al., eds.,
Advances in Modal Logic, Volume 9, pages 437–458. College Publications, 2012.
ISBN-13:978-1-84890-068-4 (open access via *Advances in Modal Logic*).
- p6 Partial realization in dynamic justification logic (with S. Bucheli and T. Studer)
In L. Beklemishev and R. de Queiroz, eds.,
Logic, Language, Information and Computation, 18th International Workshop, WoLLIC 2011, Philadelphia, PA, USA, May 18–20, 2011, Proceedings,
volume 6642 of *Lecture Notes in Artificial Intelligence*, pages 35–51. Springer, 2011.
doi:10.1007/978-3-642-20920-8_9.
- p7 A syntactic realization theorem for justification logics (with K. Brünnler and R. Goetschi)
In L. Beklemishev et al., eds.,
Advances in Modal Logic, Volume 8, pages 38–56. College Publications, 2010.
ISBN-13:978-1-84890-013-4 (open access via *Advances in Modal Logic*).

- p8 Two ways to common knowledge (with S. Bucheli and T. Studer)
 In T. Bolander and T. Braüner, eds.,
Proceedings of the 6th Workshop on Methods for Modalities (M4M-6 2009), Copenhagen, Denmark, 12–14 November 2009,
 number 262 in *Electronic Notes in Theoretical Computer Science*, pages 83–98. Elsevier, May 2010.
 doi:10.1016/j.entcs.2010.04.007 (open access via Elsevier).
- p9 Logical omniscience as a computational complexity problem (with S. Artemov)
 In A. Heifetz, ed.,
Theoretical Aspects of Rationality and Knowledge, Proceedings of the Twelfth Conference (TARK 2009),
 pages 14–23, Stanford University, California, July 6–8, 2009. ACM.
 doi:10.1145/1562814.1562821.
 Open access via *Theoretical Aspects of Rationality and Knowledge*.
- p10 The NP-completeness of reflected fragments of justification logics (with S. R. Buss)
 In S. Artemov and A. Nerode, eds.,
Logical Foundations of Computer Science, International Symposium, LFCS 2009, Deerfield Beach, FL, USA, January 3–6, 2009, Proceedings,
 volume 5407 of *Lecture Notes in Computer Science*, pages 122–136. Springer, 2009.
 doi:10.1007/978-3-540-92687-0_9.
- p11 Self-referentiality of justified knowledge
 In E. Hirsch et al., eds.,
Computer Science — Theory and Applications, Third International Computer Science Symposium in Russia, CSR 2008, Moscow, Russia, June 7–12, 2008, Proceedings,
 volume 5010 of *Lecture Notes in Computer Science*, pages 228–239. Springer, 2008.
 doi:10.1007/978-3-540-79709-8_24.
- p12 Proof identity for classical logic: Generalizing to normality
 In S. Artemov and A. Nerode, eds.,
Logical Foundations of Computer Science, International Symposium, LFCS 2007, New York, NY, USA, June 4–7, 2007, Proceedings,
 volume 4514 of *Lecture Notes in Computer Science*, pages 332–348. Springer, 2007.
 doi:10.1007/978-3-540-72734-7_24.
- p13 Logical omniscience via proof complexity (with S. Artemov)
 In Z. Ésik, ed.,
Computer Science Logic, 20th International Workshop, CSL 2006, 15th Annual Conference of the EACSL, Szeged, Hungary, September 25–29, 2006, Proceedings,
 volume 4207 of *Lecture Notes in Computer Science*, pages 135–149. Springer, 2006.
 doi:10.1007/11874683_9.
- p14 Complexity of evidence-based knowledge
 In S. Artemov and R. Parikh, eds.,
Proceedings of the Workshop on Rationality and Knowledge, 18th European Summer School in Logic, Language and Information (ESSLLI'06), pages 66–75, Málaga, Spain, August 7–11, 2006. FoLLI.
- p15 On the complexity of explicit modal logics
 In P. Clote and H. Schwichtenberg, eds.,
Computer Science Logic, 14th International Workshop, CSL 2000, Annual Conference of the EACSL, Fischbachau, Germany, August 21–26, 2000, Proceedings,
 volume 1862 of *Lecture Notes in Computer Science*, pages 371–383. Springer, 2000.
 doi:10.1007/3-540-44622-2_25.

Ph.D. thesis

Complexity issues in justification logic
 PhD thesis, CUNY Graduate Center, May 2008.
 ProQuest Dissertations & Theses Database Number 3310747.

Non-peer-reviewed conference proceedings, short notes, and extended abstracts

- o1 Justified belief change (with S. Bucheli, B. Renne, J. Sack, and T. Studer)
In X. Arrazola and M. Ponte, eds.,
LogKCA-10, Proceedings of the Second ILCLI International Workshop on Logic and Philosophy of Knowledge, Communication and Action, pages 135–155. University of the Basque Country Press, 2010.
- o2 A note on the use of sum in the Logic of Proofs
In C. Drossos et al., eds.,
Proceedings of the 7th Panhellenic Logic Symposium, pages 99–103, Patras University, Greece, July 15–19, 2009.
Patras University Press.

Editing of proceedings

- v1 *Electronic Proceedings of the Third Workshop on Gentzen Systems and Beyond* (with G. Metcalfe)
Vienna Summer of Logic 2014, July 2014.
- v2 *TABLEAUX 2011, Workshops, Tutorials, and Short Papers* (with M. Giese)
Technical Report IAM-11-002, Institute of Computer Science and Applied Mathematics, University of Bern,
July 2011.

10. Professional Talks

Talks by the organizers' invitation

1. *Modal Calculi from Semantics: A Case Study*
Workshop *Translating and Discovering Calculi for Modal and Related Logics* (Vienna, Austria). March 2017.
2. *How I stopped worrying about formulas and learned to interpolate*
Logic and Theory Group, University of Bern (Bern, Switzerland). December 2016.
3. **Invited speaker:** *Syntactic Interpolation: Limits and Challenges*
Workshop *Proof Theory and Modal Logic* (Turin, Italy). December 2016.
4. **Keynote speaker:** *Interpolation beyond Sequent Calculi: Modal, Intuitionistic, and Intermediate Logics
The Fine Structure of Formal Proof Systems
and their Computational Interpretations* (Innsbruck, Austria). November 2016.
5. *Interpolation Method for Multicomponent Sequent Calculi*
Logic and Theoretical Computer Science Seminar, University of Bern (Bern, Switzerland). October 2015.
6. **Lecturer:** *Justification Logic*
11th International Tbilisi Summer School in Logic and Language (Tbilisi, Georgia). September 2015.
7. **Special session speaker:** *Proof-theoretic Approach to Craig Interpolation*
Special session on *Proof Theory* at the Logic Colloquium 2015 (Helsinki, Finland). August 2015.
8. *Grafted Hypersequents*
Graduate Seminar *Logic and Information* (Münchenwiler Meeting) of Universities of Bern, Neuchâtel, and Fribourg within the framework of the Swiss Joint Master of Science in Computer Science program. March 2015.
9. **Keynote speaker:** *Separating Truth and Proof in the Logic of Proofs*
Workshop *Compositional Meaning in Logic [GeTFun 2.0]* (Vienna, Austria). July 2014 at the Vienna Summer of Logic.
10. *Applications of Nested-Sequent Proof Systems for Modal Logics to the Craig Interpolation Property*
Workshop *Nonclassical Proofs: Theory, Applications and Tools* (Vienna, Austria). July 2014 at the Vienna Summer of Logic.
11. *Realizing Public Announcements by Justifications*
International Workshop *Logical Models of Reasoning and Computation* (Moscow, Russia). February 2012.
12. *Modal Interpolation via Nested Sequents*
Workshop on Non-classical logics (Vienna, Austria). November 2011.
13. *Logical Omniscience, Public Announcements and Justification Logic*
Prague Workshop on Epistemic Logics (Prague, Czech Republic). June 2011.
14. *Constructive Realization of Justification Logics via Nested Sequents*
Computational Logic Seminar, CUNY Graduate Center (New York, NY, USA). May 2011.
15. *On the Way to the Realization of Public Announcement Logic*
Proof Theory Seminar, Steklov Mathematical Institute (Moscow, Russia). January 2011.
16. *Justifications for Belief Revision*
Computer Science Colloquium, CUNY Graduate Center (New York, NY, USA). September 2010.
17. *Logical Omniscience as a Computational Complexity Problem*
PALMYR VIII: Paris–Amsterdam–Switzerland Logic Meeting of Young Researchers (Geneva, Switzerland). May 2009.
18. *Justifications: Quantitative and Qualitative Analysis*
Workshop on Recent Trends in Proof Theory (Bern, Switzerland). July 2008.

19. *Complexity of Justification*
Computer Science Colloquium, CUNY Graduate Center (New York, NY, USA). April 2008.
20. *Making Knowledge Explicit*
New York City Logic Conference 2005 (New York, NY, USA). May 2005.
21. *Making Proofs Explicit: How Hard It Is*
New Developments in Logics of Knowledge and Belief Workshop (New York, NY, USA). June 2004.

Other external talks

1. *Proving Craig and Lyndon Interpolation Using Labelled Sequent Calculi*
JELIA 2016: Logics in Artificial Intelligence (Pyla, Cyprus). November 2016.
2. *Syntax Meets Semantics to Prove Interpolation*
Syntax Meets Semantics 2016 (Barcelona, Spain). September 2016.
3. *Craig and Lyndon interpolation via labelled sequent calculi*
Symposium on Philosophical Logic *Modalities, Conditionals, and Values* in Celebration of the Centenary of Georg Henrik von Wright (Helsinki, Finland). May 2016.
4. *Interpolation method for multicomponent sequent calculi*
LFCS 2016: Logical Foundations of Computer Science (Deerfield Beach, FL, USA). January 2016.
5. *Realization Theorems for Justification Logics: Full Modularity*
TABLEAUX 2015: Automated Reasoning with Analytic Tableaux and Related Methods (Wrocław, Poland). September 2015.
6. *Weak Arithmetical Interpretations for the Logic of Proofs*
ISRALOG'14: Israeli Workshop on Non-Classical Logics and Their Applications (Haifa, Israel). September 2014.
7. *Craig Interpolation, Proof-Theoretically via Nested Sequents*
LIX Colloquium 2013 *The Theory and Application of Formal Proofs* (Palaiseau, France). November 2013.
8. *Constructive Interpolation for the Modal Cube Using Nested Sequents*
Workshop Bern–Munich 2012 (Munich, Germany). December 2012.
9. *Modal Interpolation via Nested Sequents*
Workshop Bern–Munich 2011 (Munich, Germany). December 2011.
10. *Partial Realization in Dynamic Justification Logic*
WoLLIC 2011: 18th Workshop on Logic, Language, Information and Computation (Philadelphia, PA, USA). May 2011.
11. *Analytic Proof Systems for Justification Logic: The Road Not to Be Taken*
Workshop Bern–Munich 2010: Deductive Elements in Proof Theory and Computer Science (Munich, Germany). December 2010.
12. *A Note on the Abnormality of Realizations of S4LP*
PCC'10: Proof, Computation, Complexity (Bern, Switzerland). June 2010.
13. *Cut-Intolerant Realizations: Case Study*
Workshop Bern–Munich 2009: Deductive Elements in Proof Theory and Computer Science (Munich, Germany). December 2009.
14. *A Note on the Use of Sum in the Logic of Proofs*
PLS 7: Seventh Panhellenic Logic Symposium (Rio, Greece). July 2009.
15. *Logical Omniscience as a Computational Complexity Problem*
TARK XII: Theoretical Aspects of Rationality and Knowledge (Stanford, CA, USA). July 2009.

16. *Justification Logic and Its Applications*
Workshop Bern–Munich 2008: Deductive Elements in Proof Theory and Computer Science (Munich, Germany).
December 2008.
17. *Complexity through Tableaux in Justification Logic*
LC 2008: ASL European Summer Meeting, Logic Colloquium 2008 (Bern, Switzerland). July 2008.
18. *Self-Referentiality of Justified Knowledge*
CSR 2008: Third International Computer Science Symposium in Russia (Moscow, Russia). June 2008.
19. *Justification, Complexity, Self-Referentiality*
Combinatorics Seminar, University of California, San Diego (La Jolla, CA, USA). April 2008.
20. *Proof Identity for Classical Logic: Generalizing to Normality*
LFCS 2007: Symposium on Logical Foundations of Computer Science (New York, NY, USA). June 2007.
21. *Finite Model Property: Proving Decidability Beyond Modal Logic*
Second New York Graduate Student Logic Conference (New York, NY, USA). March 2007.
22. *Logical Omniscience via Proof Complexity*
CSL 2006: Annual Conference of the European Association for Computer Science Logic (Szeged, Hungary).
September 2006.
23. *Complexity of Evidence-Based Knowledge*
Rationality and Knowledge Workshop, ESSLLI 2006: 18th European Summer School on Logic, Language and
Information (Málaga, Spain). August 2006.
24. *On Self-Referentiality in Modal Logic*
2005–06 Winter Meeting of the Association for Symbolic Logic (New York, NY, USA). December 2005.
25. *Making Proofs Explicit: How Hard That Is*
First New York Graduate Student Logic Conference (Brooklyn, NY, USA). November 2004.
26. *On Decidability of the Logic of Proofs with Arbitrary Constant Specifications*
2004 Annual Meeting of the Association for Symbolic Logic (Pittsburgh, PA, USA). May 2004.
27. *On the Complexity of Explicit Modal Logics*
CSL 2000: Annual Conference of the European Association for Computer Science Logic (Fischbachau, Germany).
August 2000.
28. *Complexity Evaluation for Logic of Proofs LP* (in Russian)
XXI Conference of Young Scholars, Faculty of Mechanics and Mathematics, Lomonosov Moscow State University
(Moscow, Russia). May 1999.