

Rafal Urbaniak   

Research Scientist, Basis Research Institute, New York, USA

Areas of specialization

causal Bayesian reasoning, probabilistic programming, explainable AI, legal probabilism

Education

2013 Habilitation in Philosophy, University of Warsaw, Poland

2008 Ph.D. in Logic and Philosophy of Mathematics, University of Calgary, Canada

Research projects & stays

2021- Probability on Trial, OPUS grant of the National Science Centre, Poland

2022 Explicating normic support

Bednarowski Trust Fellow, host: Martin Smith, University of Edinburgh, Scotland

2022 Epistemological challenges to imprecise probabilism

The Kosciuszko Foundation Fellowship, host: Branden Fitelson, Northeastern University, USA

2017- Conceptual, formal and practical aspects of forensic and judicial applications of probabilistic tools

Supervision of one post-doctoral and two pre-doctoral researchers

Sonata Bis grant of the Polish National Science Centre, Poland

2015-2019 Forensic and judicial probability vs. probability theory. Formal tools for real-life justifications

Postdoctoral Fellowship of the Research Foundation Flanders, Belgium

2012 Mathematical existence, abstraction principles and real number theory

Trinity College Long Room Hub Visiting Fellow, Trinity College Dublin, Ireland

2012-2015 Mathematical theories with parsimonious ontologies: their strengths and limitations

Postdoctoral Fellowship of the Research Foundation Flanders, Belgium

2011-2012 Knowability paradox and Nyaya logic

Visiting Fellow, Benares Hindu University, Varanasi, India

2009 Modal reconstructions of mathematical theories

British Academy Visiting Fellow, Bristol University, United Kingdom

2009 Development of adaptive logics for the study of central topics in contemporary philosophy of science

Postdoctoral Researcher, Centre for Logic and Philosophy of Science, Ghent University, Belgium

2008 Contextual and formal-logical approach to scientific problem solving processes

Postdoctoral Researcher, Centre for Logic and Philosophy of Science, Ghent University, Belgium

2005-2006 The History of Logical Metatheory

Research Assistant to Prof. Richard Zach, University of Calgary, Canada

Appointments

2023- Research Scientist, Basis Research Institute, New York, USA

2014- Associate Professor, Department of Philosophy, Sociology and Journalism, University of Gdańsk, Poland

2012-2019 Postdoctoral Fellow of the Research Foundation Flanders, Centre for Logic and Philosophy of Science, Ghent University, Belgium

2008-2014 Assistant Professor, Department of Philosophy, Sociology and Journalism, University of Gdańsk, Poland

2008-2012 Postdoctoral Researcher, Centre for Logic and Philosophy of Science, Ghent University, Belgium

2007 Instructor of Record, Department of Philosophy, University of Calgary, Canada

2005-2008 Teaching Assistant, Department of Philosophy, University of Calgary, Canada

Other selected honors and awards

2014 “Start” scholarship of the Foundation for Polish Science

2014 Selected in Ghent auditions for presentation in TEDx Ghent

2012 Selected for the Academy of Young Scientists of the Polish Academy of Science

2011 The Polish Minister of Science award for young researchers

2006-7 Izaak Walton Killam Memorial Scholarship, University of Calgary

2005 Dean’s Entrance Scholarship, University of Calgary

2005 Best M.Sc. thesis in logic, Polish Association for Logic and Philosophy of Science

Leadership

- 2020-2022 PhD, Michał Tomasz Godziszewski, University of Warsaw, Poland
Formal Theories of Truth and Nonstandard Models of Arithmetic.
Committee: Kentaro Fujimoto, Roman Kossak
- 2014-2018 PhD, Paweł Pawłowski, Ghent University, Belgium
Informally provable, refutable or neither. A non-deterministic approach to informal provability.
Committee: Leon Horsten, Hannes Leitgeb, Stewart Shapiro, Frederik Van De Putte, Peter Verdée
- 2020-2021 Assistant Professor at the Chair, dr. Pavel Janda (cooperation)
- 2019-2020 Postdoctoral fellow, Formal Epistemology with Bounded Rationality and Law, dr. Pavel Janda, University of Gdańsk, Poland
- 2018-2020 Tutoree accepted for a PhD program in Philosophy at Carnegie Mellon University, Alicja Kowalewska, Gdańsk University of Technology, Poland (ongoing cooperation)

Selected courses taught

Statistical methods in criminology with implementation in R; Uncertainty: math, philosophy and R programming; Interpretations of Probability; Probability & philosophy of juridical evidence evaluation; Probability & philosophy; Decisions, games, and social choice theory; Cognitive failures (for journalism students); Meta-arithmetic; Formal theories of truth; Ontology of mathematics; Philosophy of truth; Non-classical logics II; Introduction to Philosophy (for sociology students); Logic II; Logic I

Programming skills

- Python with focus on causal and dynamical systems probabilistic programming with ChiRho and Pyro.
- R with focus on Bayesian reasoning and Bayesian networks with bnlearn, rethinking, gRain, BESTmcmc, rjags, runjags
- Datacamp status as of Feb 01, 2024: Total 187433 xp earned, 37 courses completed.

Books

- 2024 Urbaniak Rafał, Di Bello, Marcello, Probability on trial, book under contract with Oxford University Press (work in progress)
- 2017 Rafał Urbaniak and Gillman Payette, editors. Applications of Formal Philosophy. The Road Less Travelled. Springer, 2017
- 2016 Rafał Urbaniak. Slightly irresponsible and biased introduction to analytic philosophy [in Polish]. Academicon, 2016
- 2013 Rafał Urbaniak. Leśniewski's systems of logic and foundations of mathematics. Springer, 2013

Selected journal papers

- Alicja Dobrzeńska and Rafał Urbaniak. A Bayesian approach to uncertainty in word embedding bias estimation. Computational Linguistics, pages 1–56, 01 2024
- 2023 Paweł Pawłowski and Rafał Urbaniak. Informal provability and dialetheism. Theoria, 89(2):204–215, 2023
- 2022 Alicja Kowalewska and Rafał Urbaniak. Measuring coherence with bayesian networks. Artificial Intelligence and Law, 06 2022
- Paweł Pawłowski and Rafał Urbaniak. Logic of informal provability with truth values. Logic Journal of the IGPL, 31(1):172–193, 02 2022
- Rafał Urbaniak, Michał Ptaszyński, Patrycja Tempska, Gniewosz Leliwa, Maciej Brochocki, and Michał Wroczyński. Personal attacks decrease user activity in social networking platforms. Computers in Human Behavior, 126, January 2022. [DOI: 10.1016/j.chb.2021.106972]
- 2021 Paweł Pawłowski and Rafał Urbaniak. Informal provability, first-order BAT logic and first steps towards a formal theory of informal provability. Logic and Logical Philosophy, pages 1–27, November 2021
- Michał Bilewicz, Patrycja Tempska, Gniewosz Leliwa, Maria Dowgiałło, Michałina Tańska, Rafał Urbaniak, and Michał Wroczyński. Artificial intelligence against hate: Intervention reducing verbal aggression in the social network environment. Aggressive Behavior, January 2021. [DOI: 10.1002/ab.21948]
- Rafał Urbaniak and Marcello Di Bello. Legal Probabilism. In Edward N. Zalta, editor, The Stanford Encyclopedia of Philosophy. Metaphysics Research Lab, Stanford University, Fall 2021 edition, 2021

- Rafal Urbaniak and Michał Tomasz Godziszewski. Modal quantifiers, potential infinity, and Yablo sequences. *Review of Symbolic Logic*, 2021
- 2020 Rafal Urbaniak, Alicja Kowalewska, Pavel Janda, and Patryk Dziurosz-Serafinowicz. Decision-theoretic and risk-based approaches to naked statistical evidence: some consequences and challenges. *Law, Probability and Risk*, 02 2020
- 2019 Rafal Urbaniak and Pavel Janda. Probabilistic models of legal corroboration. *The International Journal of Evidence & Proof*, pages 1–23, 2019. [DOI 10.1177/1365712719864608]
- Rafal Urbaniak. Probabilistic legal decision standards still fail. *Journal of Applied Logics*, 6(5), August 2019
- 2018 Rafal Urbaniak. Narration in judiciary fact-finding: a probabilistic explication. *Artificial Intelligence and Law*, pages 1–32, 2018. [DOI: 10.1007/s10506-018-9219-z]
- Małgorzata Stefaniak and Rafal Urbaniak. Varieties of legal probabilism: a survey. *Decyzje*, 30:33–52, 2018
- Rafal Urbaniak and Paweł Pawłowski. Many-valued logic of informal provability: a non-deterministic strategy. *Review of Symbolic Logic*, 2018. [DOI:10.1017/S1755020317000363]
- 2017 R. Urbaniak. Different arguments, same problems. Modal ambiguity and tricky substitutions. *European Journal of Analytic Philosophy*, 13(2):5–22, 2017
- 2016 Rafal Urbaniak and Bert Leuridan. Challenging Lewis’s challenge to the best system account of lawhood. *Synthese*, pages 1–18, 2016. [DOI:10.1007/s11229-016-1287-6]
- Rafal Urbaniak. Potential infinity, abstraction principles and arithmetic (Leśniewski style). *Axioms*, 5(2):18, 2016
- 2015 Rafal Urbaniak. Stanisław Leśniewski: Re-thinking the philosophy of mathematics. *European Review*, 23:125–138, 2015
- 2014 Rafal Urbaniak and Paweł Sinilo. The inapplicability of (selected) paraconsistent logics. *Journal of Applied Non-Classical Logics*, 24(4):368–383, 2014
- Rafal Urbaniak. Ślupecki’s generalized mereology and its flaws. *History and Philosophy of Logic*, pages 1–12, 2014. [DOI:10.1080/01445340.2014.917837]
- 2013 Cezary Cieśliński and Rafal Urbaniak. Gödelizing the Yablo sequence. *Journal of Philosophical Logic*, 42(5):679–695, 2013. [DOI:10.1007/s10992-012-9244-4]
- 2012 Rafal Urbaniak. Numbers and propositions versus nominalists: yellow cards for Salmon & Soames. *Erkenntnis*, 77(3):381–397, 2012
- Rafal Urbaniak. “Platonic” thought experiments: how on earth? *Synthese*, 187(2):731–752, 2012
- Rafal Urbaniak and K. Severi Hämäri. Busting a myth about Leśniewski and definitions. *History and Philosophy of Logic*, 33(2):159–189, 2012
- 2011 Rafal Urbaniak. How not to use the Church-Turing thesis against platonism. *Philosophia Mathematica*, (III)19:74–89, 2011. [DOI:10.1093/philmat/nkr001]
- 2010 Rafal Urbaniak. Neologicist nominalism. *Studia Logica*, 96:151–175, 2010
- Rafal Urbaniak and Agnieszka Rostalska. Swinburne’s modal argument for the existence of the soul. *Philo*, 12:73–98, 2010
- Rafal Urbaniak. Capturing dynamic conceptual frames. *Logic Journal of IGPL*, 18(3):430–455, 2010
- 2009 Rafal Urbaniak. Leitgeb, “about”, Yablo. *Logique & Analyse*, 207:239–254, 2009
- Rafal Urbaniak. A note on identity and higher-order quantification. *The Australasian Journal of Logic*, 7:48–55, 2009
- 2008 Rafal Urbaniak. Leśniewski and Russell’s paradox: some problems. *History and Philosophy of Logic*, 29(2):115–146, 2008
- Rafal Urbaniak. Reducing sets to modalities. In *Reduction and Elimination. Proceedings of the 31st Wittgenstein Symposium*, pages 359–361, 2008
- 2007 Rafal Urbaniak. Time travel and conditional logics. In Michał Peliš, editor, *Logica 2007 Yearbook*, pages 247–255, 2007

- 2006 Rafal Urbaniak. On representing sentential connectives of Leśniewski's Elementary Protothetic. *Journal of Logic and Computation*, 16(4):451–460, 2006
- Rafal Urbaniak. Some non-standard interpretations of the axiomatic basis of Lesniewski's Ontology. *The Australasian Journal of Logic*, 4:13–46, 2006
- Rafal Urbaniak. On Ontological functors of Leśniewski's elementary Ontology. *Reports on Mathematical Logic*, 40:15–43, 2006
- Other selected publications
- 2019 Rafal Urbaniak. Neologicism for real(s) - are we there yet? In Mirosław Szatkowski and Bartłomiej Skowron, editors, *Contemporary Polish Ontology*. De Gruyter, 2019
- Michał Tomasz Godziszewski and Rafal Urbaniak. Infinite liar in a (modal) finitistic setting. In *Logic and Its Applications*, pages 18–29. Springer Berlin Heidelberg, 2019
- 2018 Rafal Urbaniak and Diderik Batens. Induction. In Sven Ove Hansson, Vincent F. Hendrick, and Kjeldahl Esther Michelsen, editors, *Introduction to Formal Philosophy*, pages 105–130. Springer, 2018
- Rafal Urbaniak and Pawel Pawlowski. Logics of (formal and informal) provability. In Sven Ove Hansson, Vincent F. Hendrick, and Kjeldahl Esther Michelsen, editors, *Introduction to Formal Philosophy*, pages 191–240. Springer, 2018
- Rafal Urbaniak and Michał Tomasz Godziszewski. Material implication and conversational implicature in Lvov-Warsaw School. In Ángel Garrido and Urszula Wybraniec-Skardowska, editors, *The Lvov-Warsaw School. Past and Present*, pages 117–132. Springer International Publishing, 2018
- 2017 Rafal Urbaniak. Reconciling Bayesian epistemology and narration-based approaches to judiciary fact-finding. In Jérôme Lang, editor, *Proceedings Sixteenth Conference on Theoretical Aspects of Rationality and Knowledge*, Liverpool, UK, 24-26 July 2017, volume 251 of *Electronic Proceedings in Theoretical Computer Science*, pages 504–514. Open Publishing Association, 2017
- Rafal Urbaniak. Beating the gatecrasher paradox with judiciary narratives. In Alexandru Baltag, Jeremy Seligman, and Tomoyuki Yamada, editors, *Logic, Rationality, and Interaction: 6th International Workshop, LORI 2017, Sapporo, Japan, September 11-14, 2017*, *Proceedings*, pages 637–642. Springer, 2017
- 2011 Rafal Urbaniak and Agnieszka Rostalska. A modern modal argument for the soul. In Michael Bruce and Steven Barbone, editors, *Just the arguments*, pages 93–99. Wiley-Blackwell, 2011
- Selected talks
- Invited and departmental talks
- 2021 Story coherence with Bayesian Networks with Alicja Kowalewska, invited webinar at Center for Logic, Language, and Cognition University of Turin, Italy
- Story coherence with Bayesian Networks, invited graduate class taught with Alicja Kowalewska at Arizona State University, USA
- 2018 Potential Infinity, Leśniewskian Definitions, Arithmetic & Yablo sequences, Logic, Language, and Ontology – WaragaiFest 2018, Tokyo, Japan
- Modal Quantifiers, Potential Infinity, and Yablo sequences, Proof Society Summer School 2018, Ghent University, Belgium
- 2017 Narrations in judiciary fact-finding and the difficulty about conjunction, Faculty of Philosophy, University of Groningen, Netherlands
- Paradoxes of informal provability and many-valued indeterministic provability logic, Kyoto Philosophical Logic Workshop III, Kyoto University, Japan
- Narration in Judiciary Fact-Finding: A Probabilistic Explication, Tokyo Forum for Analytic Philosophy, The University of Tokyo, Japan
- 2015 Non-deterministic logic(s) of (informal) provability, University of Oxford (United Kingdom), University of Oslo (Norway)
- A non-classical logic of informal provability (with Pawel Pawlowski), Munich Center for Mathematical Philosophy, Germany
- Non-deterministic logics of provability, *Entia et Nomin* 2015, Cracov, Poland

- Workshop on probabilistic logic, Metafizz Student Club, Trinity College Dublin, Ireland
- 2013 Mereology and mathematics. The case of Leśniewski and his continuators, Parts in Logic and Metaphysics, Université de Rennes I, France
Stanisław Leśniewski: Re-thinking the philosophy of mathematics, Academia Europaea 25th anniversary congress, Wrocław, Poland
- 2012 Gödelizing the Yablo sequence, Trinity College Dublin, Ireland
Neologicism: for real(s), Numbers and Truth, University of Gothenburg, Sweden
Abstraction without abstracta, Polish Philosophical Congress, Wisła, Poland
The philosophical usefulness of paradoxes, Banaras Hindu University, Varanasi, India
Busting a myth about Leśniewski and definitions, Warsaw University, Poland
- 2010 Frames, similarity, many-valuedness, Workshop on Types and Frames, Heinrich-Heine Universität, Düsseldorf, Germany
Yellow Card for Salmon, Oxford University, United Kingdom
Swinburne's modal argument for the existence of the soul (with Agnieszka Rostalska), Canterbury University, Christchurch, New Zealand
- 2009 Modalities+Identities-Entities, Structure and Identity and Abstraction Workshop, Bristol University, United Kingdom
Galileo on falling bodies, Platonism, Dynamic Reasoning, Université Paris I Panthéon-Sorbonne, France
Nominalist Neologicism, University of St. Andrews, Scotland
Abstraction without Abstracta, Trinity College Dublin, Ireland
Modality and Existence, keynote address, Polish Society for Logic and Philosophy of Science annual meeting, Warsaw University, Poland
Logic and Religion: a case study, Bristol University, United Kingdom
Nameability and Mathematical Existence, Logic & Language Seminar, University of Edinburgh, Scotland
- 2008 (1) What sentences refer to and (2) Quantified propositional modal logic and philosophy (with Agnieszka Rostalska), University of Edinburgh, Scotland
- 2006 Demonstratives in Logica Magna, Workshop on Medieval Nominalism, University of Quebec, Montreal, Canada
- 2005 On ontological functors of Leśniewski's Ontology, Polish Association for Logic and Philosophy of Science (award reception), Warsaw University, Poland
Conference & workshop presentations
- 2020 (1) Story coherence with Bayesian Networks with Alicja Kowalewska, and (2) Imprecise Credences Can Increase Accuracy wrt. Claims about Expected Frequencies, Bayesian Epistemology: Perspectives and Challenges, LMU, Munich, Germany
- 2019 (1) Modal Quantifiers, Potential Infinity, and Yablo sequences with Michał Tomasz Godziszewski, and (2) Combining truth values with provability values: a non-deterministic logic of informal provability with Paweł Pawłowski, International Congress of Logic, Methodology and Philosophy of Science and Technology, Prague, Czech Republic
- 2018 Infinite liar in a (Modal) Finitistic Setting, 8th Indian Conference on Logic and its Applications, ICLA 2019, Delhi, India
(1) Abstraction Principles via Leśniewskian definitions. Potential infinity and arithmetic and (2) Narrations in judiciary fact-finding and the difficulty about conjunction, Unilog 2018, Vichy, France
- 2017 Reconciling Bayesian epistemology and narration-based approaches to judiciary fact-finding, Sixteenth conference on Theoretical Aspects of Rationality and Knowledge 2017, University of Liverpool, United Kingdom
Beating the Gatecrasher Paradox with Judiciary Narratives, Logic, Rationality, and Interaction 2017: 6th International Workshop, Sapporo University, Japan
Probabilistic Explication of the Notion of Narration as Used in Judiciary Contexts, Prolog 2017: The 8th workshop on Combining Probability and Logic, Munich, Germany

- Probabilistic explication of the notion of narration as used in judiciary contexts, *Entia et Nomin* 2017, Palolem, India
- 2016 Understanding conditionals, Hokudai-Ghent Joint Symposium “Connecting Japan and Belgium”, Ghent, Belgium
- Failxplication of truth (untyped), Language and metalanguage, logic and meta-logic. Revisiting Tarski’s hierarchy, Louvain-la-Neuve, Belgium
- Probabilistic explication of the notion of narration as used in judiciary contexts, Justification of court decisions: law-theoretic and interdisciplinary perspectives, Jabłonna, Poland
- Not too abstract abstraction principles for real numbers, Polish Ontology Nowadays, Warsaw, Poland
- 2015 The non-applicability of selected paraconsistent logics, 15th Congress of Logic, Methodology and Philosophy of Science, Helsinki, Finland
- First steps towards non-classical logic of informal provability (with Pawel Pawlowski), 15th Congress of Logic, Methodology and Philosophy of Science, Helsinki, Finland
- 2014 Verbality and Disagreement in the Nyaya-Samkhya debate about causality, Udaharanas, Drstantas and Nyayas in Texts and Contexts, Gujarat University, Ahmendabad, India
- Irrational bookies, Third Reasoning Club Conference, University of Kent, United Kingdom
- A comparative study of selected filtered paraconsistent logics, 5th World Congress on Paraconsistency, Kolkata, India
- 2012 Gödelizing the Yablo sequence, Trends in Logic XI – Advances in Philosophical Logic, Ruhr-Universität Bochum, Germany
- 2011 Haecceitas and possible worlds, Philosophical perspectives on individuals, University of Gdańsk, Poland
- (1) Busting a myth about Leśniewski and definitions and (2) Platonic thought experiments? How on earth?, 14th Congress of Logic, Methodology and Philosophy of Science, Nancy, France
- (1) Proving unprovability by de-paradoxizing paradoxes and (2) Dynamic modeling of “platonic” thought experiments, *Entia et Nomin* 2011 Workshop, University of Gdańsk, Poland
- A semantical approach to Yablo sentences, Seventh Barcelona Workshop on Issues in the Theory of Reference, University of Barcelona, Spain
- How not to use the Church-Turing thesis against platonism, Trends in Logic IX – Studia Logica International Conference, Church’s Thesis: Logic, Mind and Nature, Jagiellonian University, Cracow, Poland
- Nominalistic Neologicism, XX SIUCC SEFA (Sociedad Española de Filosofía Analítica) Workshop with Crispin Wright, University of Barcelona, Spain
- 2010 Platonism, Dynamic Reasoning, and Galileo on Falling Bodies, Logic, Reasoning, Rationality, Ghent University, Belgium
- Nominalism and the modal unstability of Barcan and Reversed Barcan formulas across orders, CeLL Workshop on Second-Order Modal Logic, School of Advanced Study, University of London, United Kingdom
- 2009 Anti-Fregean neologicism, Trends in the Philosophy of Mathematics (Trends in Logic VII), Goethe University, Frankfurt, Germany
- (1) Abstraction Principles, a modal interpretation and (2) Platonic thought experiments? Mundane but adaptive, Société de Philosophie Analytique congress, Geneva, Switzerland
- (1) Induction from a single instance: incomplete frames (with Frederik Van De Putte) and (2) Adaptive reasoning with dynamic conceptual frames, Concept Types and Frames in Language, Cognition, and Science, Heinrich-Heine-Universität, Düsseldorf, Germany
- Plurals and the cumulative set hierarchy, Non-Classical Mathematics 2009, Hejnice, Czech Republic
- Swinburne’s modal argument for the existence of souls; Formal aspects (with Agnieszka Rostalska), Formal Methods in the Epistemology of Religion, Katholieke Universiteit Leuven, Belgium
- Paradox & Reference, PhDs in Logic workshop, Ghent University, Belgium
- (1) Logic and Philosophy: a case study: a modal argument for the existence of souls (with Agnieszka Rostalska) and (2) Capturing dynamic conceptual frames, Workshop & Young Researcher’s Days in Logic,

Philosophy and History of Science, Palais des Académies, Brussels, Belgium

Reducing sets to modalities, 31st International Wittgenstein Symposium of the Austrian Ludwig Wittgenstein Society, Kirchberg, Austria

Time Travel and Conditionals, Logica 2007, Hejnice, Czech Republic

Tooley's Example and Conditional Logics, the annual meeting of the Society for Exact Philosophy, UBC, Vancouver, Canada

Some Problems with Leśniewski's Foundations of Mathematics, Mathematical Methods in Philosophy, Banff International Research Station for Mathematical Innovation and Discovery, Canada

2006

The (in)significance of Tooley's example, a commentary at the Western Canadian Philosophical Association Conference, University of British Columbia, Vancouver, Canada

Editorial & organizational work

Associate Editor: *Studia Logica*

Referee: *Bulletin of Symbolic Logic*, *Erkenntnis*, *Synthese*, Council for the Humanities of the Netherlands Organization for Scientific Research, *Review of Symbolic Logic*, *Studia Logica*, *Journal of Philosophical Logic*, *Journal of Applied Non-Classical Logic*, *Logique & Analyse*, *Journal of Philosophical Research*, *Foundations of Science*, *History and Philosophy of Logic*, *Theoria*, *Logic and Logical Philosophy*, *Polish Journal of Philosophy*

Main Organizer: International Conference for Philosophy of Science and Formal Methods in Philosophy (CoPS-FaM-19) of the Polish Association for Logic and Philosophy of Science, Gdansk, Poland, *Entia et Nomina* 2018, Gdansk, Poland, *Entia et Nomina* 2017, Palolem, India, *Swamplandia - Meta-arithmetical results and their philosophical meaning*, Ghent University, 2016, *Academic Caffee* of the Polish Academy of Science, University of Gdańsk, Poland, 2016, *Trends in Logic XIV*, 2014, Ghent University, Belgium, *Philosophers' Rally*, 2012, University of Gdańsk, Poland, *Entia et Nomina* 2013, *Entia et Nomina* 2011, *Entia et Nomina* 2010, University of Gdańsk, Poland, *Graduate Colloquia Series*, University of Calgary, 2007-2008