

CURRICULUM VITAE
STANISLAV SPERANSKI

FIELDS OF RESEARCH INTEREST

My work addresses topics in:

- logic and computability;
- the foundations of mathematics and those of computing;
- the philosophy of mathematics and that of computing.

In general, I am concerned with developing and studying different styles of reasoning and representation, and interested in broader applications of mathematical and computational methods.

ACADEMIC CAREER

<i>Steklov Mathematical Institute</i>	Department of Mathematical Logic	*
— Senior Scientific Researcher		02.2023 – Present
— Scientific Researcher		02.2021 – 01.2023
<i>St. Petersburg State University</i>	Department of Mathematics and Computer Science	*
— Associate Professor (part-time)		02.2021 – 06.2021
— Associate Professor		09.2016 – 01.2021
<i>University of Bristol</i>	Institute for Advanced Studies	*
— IAS Benjamin Meaker Visiting Professor		07.2017 – 08.2017
<i>Sobolev Institute of Mathematics</i>	Laboratory of Logical Systems	*
— Scientific Researcher		01.2014 – 08.2016
— Junior Scientific Researcher		07.2013 – 12.2013
<i>Ludwig-Maximilians-Universität München</i>	Munich Center for Mathematical Philosophy	*
— Humboldt Research Fellow in Logic		11.2014 – 10.2015
<i>Novosibirsk State University</i>	Department of Fundamental and Applied Linguistics	*
— Assistant (part-time)		02.2016 – 08.2016
—————”—————	Department of Discrete Mathematics and Informatics	*
— Assistant (part-time)		09.2012 – 08.2016
—————”—————	Department of General Informatics	*
— Assistant (part-time)		02.2012 – 08.2013

EDUCATION

Sobolev Institute of Mathematics

- Ph.D. (i.e. C.Sc.) in Mathematics and Physics* 04.2013

Novosibirsk State University

- M.Sc. in Mathematics 06.2010
— B.Sc. in Mathematics 06.2008

SEVEN SELECTED JOURNAL ARTICLES

- 2022 [Infinitary action logic with exponentiation](#) [with S. L. Kuznetsov].
Annals of Pure and Applied Logic 173(2), 103057.
- 2021 [Negation as a modality in a quantified setting](#).
Journal of Logic and Computation 31(5), 1330–1355.
- 2020 [Belnap–Dunn modal logics: Truth constants vs. truth values](#) [with S. P. Odintsov].
Review of Symbolic Logic 13(2), 416–435.
- 2019 [Reasoning about arbitrary natural numbers from a Carnapian perspective](#) [with L. Horsten].
Journal of Philosophical Logic 48(4), 685–707.
- 2017 [Quantifying over events in probability logic: An introduction](#).
Mathematical Structures in Computer Science 27(8), 1581–1600.
- 2017 [Notes on the computational aspects of Kripke’s theory of truth](#).
Studia Logica 105(2), 407–429.
- 2015 [Some new results in monadic second-order arithmetic](#).
Computability 4(2), 159–174.

For the complete list of publications and preprints please see a [separate PDF-file](#).

TEACHING EXPERIENCE

I have taught courses and seminars at Steklov Mathematical Institute, Moscow Institute of Physics and Technology, St. Petersburg State University and Novosibirsk State University.

For more details see a [separate PDF-file](#).

SELECTED RESEARCH PROJECTS

The Alexander von Humboldt Foundation

- Research Fellowship 11.2014 – 10.2015
‘Non-Deductive Logics: Expressibility vs. Computability’ (One Year)
(Host: H. Leitgeb.)

*Thesis: Logic of Probability and Probability Logic. (Advisors: S. P. Odintsov and E. E. Vityaev.)

University of Bristol ▷ *Institute for Advanced Studies*

- Visiting Professorship 07.2017 – 08.2017
'Arbitrary Objects and Structures' (One Month)
(Host: L. Horsten.)

The European Commission ▷ *Marie Skłodowska–Curie Actions*

- Project PIRSES-GA-2011-294962 2012 – 2013
'Computable Analysis — Theoretical and Applied Aspects'
(Role: Visiting Fellow. Head: D. Spreen.) (Two One-Month Visits)

'Young Russian Mathematics' Competition

- Individual Award / Fellowship 08.2019 – 12.2020

The Russian Science Foundation

- Project 23-11-00104 2023 – 2025
'Computational and Proof-Theoretic Aspects of Non-Classical Logics'
(Role: Head, together with S. L. Kuznetsov.)
- Project 21-11-00318 2021 – 2023
'Problems of computability, provability and completeness in logic and algebra'
(Role: Investigator. Head: L. D. Beklemishev.)
- Project RSF–FWF 20-41-05002[†] 2020 – 2022
'New concepts of formal proof and proof representations'
(Role: Investigator. Heads: L. D. Beklemishev and M. Baaz.)

The Russian Foundation for Basic Research

- Project 18-501-12019[‡] 2018 – 2019
'FDE-Based Modal Logics' (Two Years)
(Role: Principal Investigator. Heads: S. P. Odintsov and H. Wansing.)

SELECTED TALKS

I gave numerous talks at conferences, workshops and seminars. Here is a list of seven selected talks.

- Invited Plenary Talk
Title: Strengthening complexity results in quantified probability logic
[International Conference 'Computing in Topological Structures: Foundations and Implementations'](#)
Sochi + Online, June 27–July 1, 2022
- Invited Section Talk
Title: Monadic second-order definability in weak arithmetics
[All-Russian Conference of World-Class International Mathematical Centers](#)
Sochi, August 9–13, 2021
- Invited Plenary Talk
Title: A constructive interpretation for independence quantifiers
[St. Petersburg Days of Logic and Computability V](#)
(dedicated to the 80th anniversary of V. P. Orevkov)
Online, May 12–15, 2021

[†]This is a joint Russian–German project. The Russian investigators and the German ones are sponsored by the Russian Science Foundation and the Austrian Science Fund (i.e. ASF) respectively.

[‡]This is a joint Russian–German project. The Russian investigators and the German ones are sponsored by the Russian Foundation for Basic Research and the German Research Foundation (i.e. DFG) respectively.

- Invited Keynote Talk
Title: A modal framework for reasoning about arbitrary natural numbers
Conference for Philosophy of Science and Formal Methods in Philosophy 2019
of the Polish Association for Logic and Philosophy of Science
Gdansk, Poland, December 4–8, 2019
- Invited Plenary Talk
Title: On negation as a modal operator in a quantified setting
Workshop on Proof Theory, Modal Logic and Reflection Principles 2019
(also known as the Fifth International Wormshop)
Barcelona, Spain, November 5–8, 2019
- Invited Public Lecture
Title: On the discovery of incomputability and unsolvability
University of Bristol (organised by Institute for Advanced Studies)
Bristol, UK, August 3, 2017
- Invited Plenary Talk
Title: On the computational aspects of Kripke’s theory of truth
Workshop on Proof Theory, Modal Logic and Reflection Principles 2017
(also known as the Forth International Wormshop)
Moscow, Russia, October 17–20, 2017

SOME PROFESSIONAL ACTIVITIES

ORGANISATION

- Co-Chair, Programme and Organising Committees
Semantical and Computational Aspects of Non-Classical Logics 2023
Moscow, Russia + Online, June 13–17, 2023
- Co-Chair
Logical Perspectives 2022 Open Lectures
Online, December 15, 2022
- Member, Organising Committee
Section ‘Mathematical Logic and Theoretical Computer Science’
at Second Conference of Russian Mathematical Centers
Moscow, Russia, November 7–11, 2022
- Co-Chair, Programme and Organising Committees
Logical Perspectives 2021 Conference and
Logical Perspectives 2021 Summer School & Workshop
Moscow, Russia, June 7–11 and 14–19, 2021
- Member, Programme Committee
St. Petersburg Days of Logic and Computability V
(dedicated to the 80th birthday of V. P. Orevkov)
Saint Petersburg, Russia, May 12–15, 2021
- Co-Chair
Logical Perspectives 2020 Open Lectures
Online, November 17–18, 2020

- Member, Programme Committee
St. Petersburg Days of Logic and Computability IV
(dedicated to the 100th anniversary of N. A. Shanin)
Saint Petersburg, Russia, May 23–26, 2019
- Chair, Organising Committee
Logical Perspectives 2018
Saint Petersburg, Russia, May 14–18, 2018
- Co-Chair, Programme Committee
Logical Perspectives 2018
Saint Petersburg, Russia, May 14–18, 2018
- Member, Organising Committee
36th Journées sur les Arithmétiques Faibles Conference
(dedicated to the 70th birthday of Yu. V. Matiyasevich)
Saint Petersburg, Russia, June 5–7, 2017
- Co-Chair
Section ‘Weak Arithmetics’
at Computability in Europe 2016
Paris, France, June 27–July 1, 2016
- Co-Chair
Section ‘Mathematical Logic and Universal Algebra’
at International Scientific Student Conference 2014
Novosibirsk, Russia, April 11–18, 2014

Moreover, I used to be the head of the City Seminar in Mathematical Logic (St. Petersburg), also known as the Logic Seminar in Saint Petersburg.

REFEREEING ACTIVITIES

I have served as a referee for various journals (such as Algebra and Logic, Archive for Mathematical Logic, Journal of Applied Logic, Journal of Logic and Computation, Journal of Philosophical Logic, Journal of Symbolic Logic, Review of Symbolic Logic, Logique et Analyse, and Mathematical Notes).

CONTACTS

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