

# CURRICULUM VITAE

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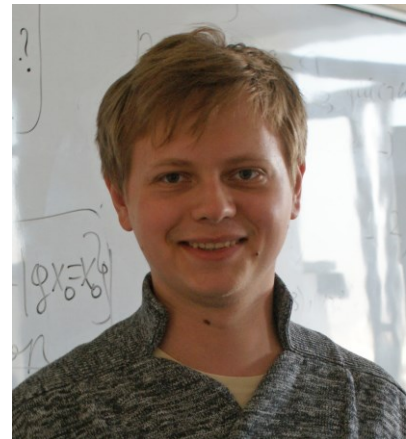
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**Education and degrees:**

**Undergraduate:** Siberian Federal University (2008-2012), B.S. in Mathematics and Computer Science (2012)

**Graduate:** Siberian Federal University (2012-2014), M.S. in Mathematics (with Red diploma, 2014)

**Postgraduate:** Siberian Federal University (2014-until now), Ph.D. in Physics and Mathematics (planned)

**Positions held:**

**2014-until now:** Assistant at the Department of Algebra and Mathematical Logic, Institute of Mathematics and Computer Science, Siberian Federal University.

**Disciplines taught:**

2014-until now: Discrete Mathematics (IM&CS of SibFU, HI of SibFU);

2014-2016: Algebra (IM&CS of SibFU);

2015-until now: Formal Systems in Logic and Algebra (IM&CS of SibFU);

2016-until now: Algorithms and Recursive Functions (IM&CS of SibFU);

2017-until now: Additional Chapters of Logic and Discrete Math. (IM&CS of SibFU).

**Conference Talks:**

**April, 2013:** IX All-Russian Scientific-Technical Conference of Students, Graduate Students and Young Scientists with the International Participation “Youth and Science”, Krasnoyarsk, Russia, SibFU (section talk);

**July, 2013:** International Scientific Conference “Algebra and Logic, Theory and Applications”, Dedicated to the 80th Anniversary of VP Shunkov, Krasnoyarsk, Russia, SibFU (section talk);

**April, 2016:** International Scientific Conference of Students, Graduate students and Young Scientists “Lomonosov-2016”, Moscow, Russia, MSU (section talk);

**April, 2016:** International Scientific Students Conference “MSSC-2016”, Novosibirsk, Russia, NSU-IM SB RAS (section talk);

**April, 2016:** International Youth Scientific Student Conference “Svobodny Avenue-2016”, Krasnoyarsk, Russia, SibFU (section talk);

**July, 2016:** International Scientific conference “Algebra and Logic: Theory and Applications”, Dedicated to the 70th Anniversary of VM Levchuk, Krasnoyarsk, Russia, SibFU (section talk);

**November, 2016:** International Conference on Algebra, Mathematical logic and Applications “Mal’tsev Meeting”, Novosibirsk, Russia, IM SB RAS (section talk);

**June, 2017:** XX All-Russian Scientific and Practical Conference “Mathematics to Altai region (MAR-2017)”, Barnaul, Russia, AltSU (section talk).

#### **Planned Talks:**

**August, 2017:** 5th School-Workshop “The Syntax and Semantics of Logical Systems”, Ulan-Ude – Baikal, Russia (section talk);

**August, 2017:** International Conference “Mathematics in the Modern World” dedicated to the 60th anniversary of the foundation of the Sobolev Institute of Mathematics, Novosibirsk, Russia, IM SB RAS (section talk);

**November, 2017:** International Conference on Algebra, Mathematical logic and Applications “Mal’tsev Meeting”, Novosibirsk, Russia, IM SB RAS (section talk).

#### **Most important publications:**

**SI Bashmakov**, Unification and inference rules in the multi-modal logic of knowledge and linear time LTK, SibFU Journal. Math & Phys., 2016, V. 9 (2), pp. 149–157.

**SI Bashmakov**, AV Kosheleva, VV Rybakov, Non-unifiability in linear temporal logic of knowledge with multi-agent relations, Siberian Electr. Math. Reports, 2016, V. 13, pp. 656–663.

**SI Bashmakov**, AV Kosheleva, VV Rybakov, Projective formulas and unification in linear discrete temporal multi-agent logics, Siberian Electr. Math. Reports, 2016, V. 13, pp. 923–929.

**SI Bashmakov**, MI Golovanov, Axiomatization of intuitionistic logics defined by small frames, Mathematical notes of North-EastFU, 2017, V. 24 (1) – in print. (in russian)

**SI Bashmakov**, AV Kosheleva, VV Rybakov, Multi-agent temporal logics with universal modality, description of non-unifiability, IfCoLog Logics and their Applications, 2017, V.4 (4) – in print.

#### **Research interest:**

Modal, Intuitionistic, Temporal, Multi-modal and Many-valued logics, Unification, Projective Formulas, Inference Rules, Axiomatization, Kripke Relational Semantic.

#### **Summary of main results:**

Finite axiomatization of intuitionistic logics given by small frames (with MI Golovanov, 2013-2016);

The criterion of non-unifiability and the finite basis of passive inference rules for linear temporal logic of knowledge LTK (2015-2016);

The criterion of non-unifiability and the infinite basis of passive inference rules for linear temporal logic of knowledge LFPK (with AV Kosheleva and VV Rybakov, 2016);

The criterions of non-unifiability and the infinite basis of passive inference rules for all

temporal logics with expressible universal modality (with AV Kosheleva and VV Rybakov, 2016-2017);

The Projective unification for linear temporal logic of knowledge LFPK and some modifications (with AV Kosheleva and VV Rybakov, 2016);

The Projective unification for linear modal logic of nontransitive time and universal modality (2017);

**Additional Information:**

**Prizes and honors:**

Diploma for the first place at the conference "Youth and Science" (2013);

Diploma for the first place at the conference "Mathematics to Altai region (MAR-2017)";

Member of the "Staff reserve" of SibFU (since 2016);

Advanced training "Project Management" (2016);

Advanced trainings "Complexes of processing ballot papers" (2012-2016);

Member of the "Council of Young Scientists" of SibFU (since 2017);

Member of the organizing committees of the conference "Algebra and Logic: Theory and Applications" and the School-Conference on Group Theory, Krasnoyarsk, Russia (2016);

Co-organizer of the weekly scientific workshop "Non-standard Logics".