

CURRICULUM VITAE

Sergey Slavnov

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Personal information:

Born: 16 September 1976

Citizenship: Russia

Education:

Cornell University, PhD in Mathematics, 2005, thesis: “Semantic investigations of Linear Logic”, thesis adviser: Anil Nerode;

Cornell University, M.S. in Mathematics, 2003;

Moscow State University, *spetsialist*, 2000.

Academic employment:

Teaching assistant, Cornell University, USA, Fall 2000 — Spring 2005.

Postdoctoral assistant, University of Ottawa, Canada, Fall 2005 — Spring 2006.

Postdoctoral researcher, Université Denis Diderot, France, Fall 2006 — Summer 2007.

Assistant professor, Moscow State University of Railroad Engineering (MIIT), Russia, Fall 2007 — Spring 2010.

Part-time math instructor, High School of Economics, International college of Economics and Finance, Russia, Fall 2011 — present.

Other employment:

Cognitive technologies, developer (part time), 2008.

Journal ”Theoretical and Mathematical Physics”, scientific editor of the English version (part time), 2008 — 2010

Huawei technologies, R&D engineer, 2010 — present.

Teaching experience

Lecture courses:

Discrete mathematics;

Mathematical analysis — 2 semester course, including calculus in one and many variables;

Linear algebra;

Higher mathematics — 3 semester course of mathematics for humanities students, including calculus in one and many variables, linear algebra, probability theory;
Mathematical logic.

Teaching assistance in

Mathematical analysis, Linear algebra, Probability theory, Applied algebra, Mathematical logic, Complex variables, Differential geometry.

Research interests:

Linear logic, categorical logic, denotational semantics, monoidal categories.

Publications:

Two Counterexamples in the Logic of Dynamic Topological Systems, CUNY Tech report TR-2003015, 2003.

Geometrical semantics for Linear Logic, Theoretical Computer Science, v. 357, pg. 215-229, 2006.

Coherent phase spaces. Semiclassical semantics, Annals of Pure and Applied Logic, v 131, pg 177-225, 2005.

From proof-nets to bordisms. The geometric meaning of multiplicative connectives, Mathematical Structures in Computer Science, v 15, pg 1151-1178, 2005.

On completeness of Dynamic Topological Logic, Moscow Mathematical Journal, v. 5:2, pg. 477-492, 2005.

Semantic investigations of Linear Logic, Cornell University, PhD thesis, 2005.

Is there any geometry in Geometry of Interaction?, manuscript, 2005.

Categorical models of deep inference and probabilistic coherence spaces, (with R. Blute and P. Panangaden), Applied Categorical Structures, v. 20:3, pg. 209-228, 2012.

Modelling linear logic with implicit functions, 2007, submitted

Conference talks:

Geometrical semantics for linear logic (multiplicative fragment), Federated logic conference — workshop on linear logic (FLoC'02-LL), Copenhagen, Denmark, 2002.

Is there any geometry in Geometry of Interaction?, Category Theory Octoberfest'05, University of Ottawa, Canada, 2005.

Geometry of Interaction and Hamiltonian dynamics, Geometry of Computation 2006 (GeoCal'06), Marseille-Luminy, France, 2006.

"Physical" interpretations of Linear Logic: semiclassical vs. quantum, ASL 2006 annual meeting, Universite de Quebec a Montreal, Montreal, Canada, 2006.

"Modelling linear logic with implicit functions", L.O.G.I.C., workshop on linear logic, ludics, implicit complexity, operator algebras, dedicated to J.-Y. Girard on his 60-th birthday, Siena, Italy, 2007.

Languages:

Russian: native speaker;

English;

French: reading, basic speaking.