

Mikhail Raskin

Curriculum vitae

Personal details

Date and place of birth	21 August 1987, Moscow, Russia
Nationality	Russia
Address	University of Bordeaux, LaBRI (Bât A30), 351, Cours de la Libération, F-33405 Talence Cedex, France
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Current position

Since 2017 Research Engineer, University of Bordeaux, LaBRI

Research interests

Theoretical computer science; expressive possibilities for Human–Computer and Program–Program interaction; data analysis; algorithms.

Education

2008–2014 PhD, Moscow State University, Dept. of mechanics and mathematics

PhD thesis supervisor: Prof. Nikolay K. Vereshchagin

PhD thesis title: Automata on infinite words: direct and semidirect products approach.

2002–2008 Master of Science, Independent University of Moscow

2003–2008 Master of Science, Moscow State University, Dept. of mechanics and mathematics (cum laude)

MSc thesis supervisor: Prof. Nikolay K. Vereshchagin

MSc thesis title: Partial orderings on measures on the set of infinite words over a two-symbol alphabet

1999–2003 Moscow State School N 57

Publications

1. Ivan Damgård, Jesper Buus Nielsen, Antigoni Polychroniadou, Michael Raskin. On the Communication Required for Unconditionally Secure Multiplication. *Advances in Cryptology - CRYPTO Proceedings* 2016, part 2, pp. 459–488.
2. K. Chatterjee, M. Henzinger, S. Krinninger, V. Loitzenbauer, M. Raskin. Approximating the minimum cycle mean. *Theoretical Computer Science*, 2014, vol. 547, pp. 104–116

3. M. Raskin. Toom's Partial Order Is Transitive. *Problems of Information Transmission*, 2012, vol. 48, N2, pp.154–172
4. M. Raskin. Lower Estimate of the Regulator of the Direct Product of almost Periodic and Periodic Sequences. *Vestnik Moskovskogo Universiteta (MSU Bulletin)*, Series 1, Mathematics. Mechanics. 2011, v. 6
5. M. Raskin. Coupling of computable measures coordinated with an order relation is not always computable. *Vestnik Moskovskogo Universiteta (MSU Bulletin)*. Series 1. Mathematics. Mechanics. 2012, v. 2

Conference talks

Reviewed talks

1. Writing a best-effort portable code walker in Common Lisp. European Lisp Symposium 2017, Brussels, Belgium.
2. Paradox of choice in social network games with product choice. (joint work with Nikita Nikitenkov) Game theory society congress 2016, Maastrich, Netherlands.
3. Accessing local variables during debugging. (joint work with Nikita Mamardashvili) European Lisp Symposium 2016, Krakow, Poland.
4. Computable measures that are couplable but not computably couplable. International Conference on Computability, Complexity and Randomness 2013, Moscow, Russia.
5. Data-transformer: an example of data-centered tool set. European Lisp Symposium 2013, Madrid, Spain.
6. Almost periodicity and finite automata (joint work with Yu. Pritykin). Workshop on Infinite Words, Automata and Dynamics 2007, Ekaterinburg, Russia.

Lightning talks

1. Lisp-in-the-middle, or I wanted a Lisp Machine and all I got was a fancy sudo. Lightning talk. European Lisp Symposium 2017, Brussels, Belgium.
2. OpenCV wrapper and form processing for Common Lisp — implementation notes. Lightning talk. European Lisp Symposium 2015, London, UK.
3. Julia: an outside view. Lightning talk. European Lisp Symposium 2014, Paris, France.
4. Screen subareas in StumpWM via tagging. Lightning talk. European Lisp Symposium 2014, Paris, France.

5. Personal software for PC: how I ended up reading email using Common Lisp. Lightning talk. European Common Lisp Meeting 2013, Madrid, Spain.
6. QueryFS: a virtual filesystem based on queries and related tools. Lightning talk. European Lisp Symposium 2012, Zadar, Croatia.

Conferences attended

1. European Lisp Symposium 2017, Brussels, Belgium
2. Game theory society congress (GAMES) 2016, Maastricht, Netherlands
3. Logical foundations of game theory (LOFT) 2016, Maastricht, Netherlands
4. European Lisp Symposium 2016, Krakow, Poland
5. European Lisp Symposium 2015, London, UK
6. Games, Automata, Logic and Formal Verification (GandALF) 2014, Verona, Italy
7. European Lisp Symposium 2014, Paris, France
8. Computability, Complexity and Randomness 2013, Moscow, Russia
9. Games, Automata, Logic and Formal Verification (GandALF) 2013, Borca di Cadore, Italy
10. European Lisp Symposium 2013, Madrid, Spain
11. European Lisp Symposium 2012, Zadar, Croatia
12. Computer Science in Russia 2007, Ekaterinburg, Russia

Computer experience

Main languages: Common Lisp, Python, Pascal (Free Pascal Compiler, Delphi), POSIX Shell/Bash, Nix

Other: Julia, Scheme, C, JavaScript, OCaml, C++

System administration: GNU/Linux servers; small networks with complicated routing

Professional programming

2008–2015 Design and implementation of web-based software systems for data collection, automated validation, unification and analysis. (MCCME)

2004–2008 Development of software systems for automated data acquisition, processing and monitoring in engineering tests. (NATI)

Contributions to open source projects

NixPkgs	import software packages to the NIX platform, minor patches to the Nix package manager
Agnostic Lizard	author and current maintainer of a code walking library for Common Lisp
StumpWM	tag-based window management code for Stump Window Manager
CL-Emb	current maintainer

Teaching experience

Independent University of Moscow (2007–2015):

Lecture courses: Introduction to probability theory, Set theory, Mathematical logic

Teaching assistant: Geometry, Algebra, Mathematical analysis

Moscow Institute of Physics and Technology (2011–2014):

Teaching Assistant: Mathematical logic, Algorithmic complexity.

Lecture Courses at the Summer School “Contemporary Mathematics” (2007–2015)

- “We cannot wait for favors from Nature” (forcing method in set theory model construction);
- “Who am I? Where am I?” (on sampling assumptions);
- A set of conventions and conventions about sets (a survey of alternative set theories);
- Cellular automata;
- Classical nonclassical logics and standard nonstandard models;
- Fortune-teller is of no use (what can and what cannot be predicted),
- Conditional probability and other probabilistic notions;
- Introduction to game theory;
- Sequences, close to periodical (with Yu.Pritykin).

Languages spoken

- Russian (native)
- English (advanced)
- French (basic)