

Institute of Discrete  
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# Ekaterina Fokina

## Curriculum Vitae

### Personal Data

ORCID: [orcid.org/0000-0002-4598-458X](https://orcid.org/0000-0002-4598-458X)  
Place of birth Novosibirsk, Russia  
Citizenship Austrian, Russian

### Main Area of Research

Computability theory. More generally: mathematical logic and theoretical computer science.

### Education

- 05/2013 **Habilitation in Mathematics**, Department of Mathematics, University of Vienna, Vienna, Austria
- 04/2013 **Dipl.Ing. in Computer Science, Master Program “Scientific Computing”**, Department of Computer Science, University of Vienna, Vienna, Austria (with distinction, among the best 3 alumni of the year)
- 12/2008 **PhD. in Mathematics**, Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences; Supervisor: S. S. Goncharov, Novosibirsk, Russia (no notion of honors or distinction exists; all 13 members of the examination committee voted in favor of awarding the title)
- 06/2005 **M.S. in Mathematics**, Novosibirsk State University, Russia (with distinction)
- 06/2003 **B.S. in Mathematics**, Novosibirsk State University, Russia (with distinction)
  
- 11/2016 **Doctor in Technical Mathematics**, completed to get an official Austrian title, Vienna University of Technology; Supervisor: M. Baaz, Vienna, Austria (with distinction)

### Employment

- 09/2015–present **University Postdoc Assistant**, Institute of Discrete Mathematics and Geometry, Department of Mathematics, Vienna University of Technology
- 05/2013–present **Lecturer**, Department of Computer Science, University of Vienna
- 01/2012–08/2015 **Elise Richter Senior Postdoc**, Kurt Gödel Research Center for Mathematical Logic, University of Vienna
- 01/2010–12/2011 **Lise Meitner Postdoc**, Kurt Gödel Research Center for Mathematical Logic, University of Vienna

- 07/2008–01/2010 **FWF Postdoc**, Kurt Gödel Research Center for Mathematical Logic, University of Vienna
- 10/2005–06/2008 **Junior Scientific Fellow**, Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences
- 08/2006–06/2007 **Research Scholar**, Department of Mathematics, University of Notre Dame, Notre Dame, IN, USA
- 09/2004–06/2008 **Assistant, Chair of Discrete Mathematics and Informatics**, Department of Mathematics, Novosibirsk State University

## Teaching Experience

- SS/2015–present **Computability Theory; Discrete and Geometric Algorithms; Advanced Mathematical Logic**, Department of Mathematics, TU Wien
- SS/2013–present **Theoretical Computer Science**, Department of Computer Science, University of Vienna
- SS/2014 **Basic Concepts of Mathematical Logic**, Department of Mathematics, University of Vienna
- SS/2011, SS/2010 **Theoretical Computer Science; Application Areas of Logic**, Department of Mathematics, TU Wien (joint with Matthias Baaz)
- WS/2004–SS/2008 **Theory of Algorithms; Mathematical Logic I and II**, Department of Mathematics, Novosibirsk State University

## Supervision of graduate students and postdocs

- 2012–2014 2 postdocs (M. Müller and D. Turetsky), KGRC, University of Vienna
- since 2015 2 Master theses (D. Rossegger and V. Dorskoc), 1 PhD thesis (D. Rossegger — ongoing), 1 Postdoc (L. San Mauro — ongoing), TU Wien

## Research Projects

**Total amount of received funding as PI: EUR 888 285,50.**

Principal Investigator for:

- 10/2015–09/2018 Stand-alone Project P27527 of the Austrian Science Fund (FWF) (EUR 346 468,50)
- 01/2012–03/2016 Elise Richter Project V206 of the Austrian Science Fund (FWF) (EUR 289 884,00)
- 10/2011–05/2014 Stand-alone Project P23989 of the FWF (EUR 139 713,00)
- 01/2010–01/2012 Lise Meitner Project M1188 of the FWF (EUR 112 220,00)

Co-applicant for a Lise Meitner Project M2461 (PI Luca San Mauro, 2018–2020, EUR 156 140,00). Made a major contribution to writing the scientific proposal for the FWF Joint Project I 1238 (PI's S. Friedman and S. Goncharov, EUR 412 293,00). Participated in various projects supported by the FWF, the Russian Fund of Basic Research (RFBR), US National Science Foundation.

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## Highest academic Prizes/Recognition Received

- 08/2017 Nomination by the Dean of the Department of Mathematics, TU Wien, for the "TU Wissenschaftspreis", decision yet unknown
- 08/2015 Honorary citizenship of Austria awarded by Austrian Government "for extraordinary scientific achievements"
- 05/2013 FWF List of 35 outstanding researchers under 35 years old working in Austria
- 06/2011 FWF Elise Richter Research Fellowship
- 06/2008 Award of the Siberian Fund of Algebra and Logic for productive research
- 02/2008 Award "The Best 100 PhD. Students of the Russian Academy of Sciences" of the Russian Science Support Foundation
- 04/2007 Silver Medal of the Kurt Gödel Centenary Research Prize Fellowship of the Templeton Foundation
- 01/2007 Prize of the Siberian Mathematical Journal
- 05/2006 Russian President's Fellowship to study abroad, used for being research scholar in the University of Notre Dame, USA
- 06/2003 Diploma of the Ministry of Education of Russian Federation for an excellent bachelor graduation work

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## Selected Invited Conference Talks

- 2018 Invitations to the 15th International Conference on Computability and Complexity in Analysis (plenary talk) and Logic Section in the European Women in Mathematics Meeting, declined due to maternity leave
- 09/2017 Section Algebra, Logic and Set Theory, 19th International ÖMG Congress and Annual DMV Meeting, Salzburg, Austria
- 07/2017 Special Session on Computability Theory, 11th Panhellenic Logic Symposium, Delphi, Greece
- 03/2017 Special Session on Computability Theory, SEALS 2017, University of Florida, Gainesville, FL, USA
- 09/2016 Keynote speaker, Colloquium Logicum 2016, University of Hamburg, Germany
- 05/2016 Special Session on Computability Theory, ASL 2016 North American Meeting, University of Connecticut, Storrs, CT, USA
- 02/2016 Special Session on Computability Theory, SEALS 2016, University of Florida, Gainesville, FL, USA
- 08/2015 Special Session on Computability Theory, Logic Colloquium, Helsinki, Finland
- 03/2015 Special Session on Computable Structure Theory, Spring Eastern Sectional Meeting, Georgetown University, Washington, DC, USA.
- 01/2015 Plenary talk, ASL Winter Meeting joint with JMM, San Antonio, TX, USA
- 11/2013 Workshop on Computable Model Theory, Banff, Canada
- 10/2011 Plenary talk, Mal'cev Meeting, Novosibirsk, Russia
- 08/2011 Computational Prospects of Infinity II: Workshop on Recursion Theory, National University of Singapore, Singapore
- 07/2010 Workshop on Computability Theory, Logic Colloquium, Paris, France

- 07/2009 Special Session on Computability Theory, CiE'09, Heidelberg, Germany
- 11/2007 Plenary talk, Mal'cev Meeting, Novosibirsk, Russia

## ■■■■■ Institutional Responsibilities

- since 2016 Deputy member of the Study Commission "Technical Mathematics", TU Wien

## ■■■■■ Most Important Activities for the Community

- since 2010 Member of the Steering and Organizing Committees for "Workshop on Computability Theory", (<http://wct.math.uconn.edu>)
- since 2015 Member of the Award Committee for "VCLA International Student Awards" 2016 and 2018, Vienna
- since 2016 Member of the Program Committee of "Computability in Europe" 2017 and 2018
- 2015–2017 Guest Editor of Special Issue "Mind, Mechanism and Mathematics: Computability Unchained" of the journal *Mathematical Structures in Computer Science*
- 2014 Organizer of the Special Session "Computability Theory", Logic Colloquium 2014, Vienna Summer of Logic, Vienna
- 2013 Organizer of the Sy David Friedman's Conference, Kurt Gödel Research Center, University of Vienna
- 2009 Organizer of "Computable Structure Theory" Workshop, Kurt Gödel Research Center, University of Vienna
- 2007 Organizer of the Conference "Computable Structures and Numberings", Novosibirsk, Russia
- 2005–2006 Technical coordinator of "Proceedings of the 9th Asian Logic Conference"
- 2005 Organizer of the "9th Asian Logic Conference", Novosibirsk, Russia
- Referee for: *The Journal of Symbolic Logic*, *Annals of Pure and Applied Logic*, *Lecture Notes in Computer Science*, *Algebra and Logic*, *Notre Dame Journal of Formal Logic*, *Siberian Mathematical Journal*, *Journal of Mathematical Logic*, *Mathematical Logic Quarterly*

## ■■■■■ Most Important Outreach Activities

- since 2017 Coordinator of a Facebook group "Women of Vienna STEM" for women living in Vienna and interested in STEM, currently around 400 members
- since 2015 Mentoring a teenage girl in STEM, Vienna, Austria
- 2016 Article for general audience "Wenn Computer auf ihre Grenzen Stoßen" in *Kronen Zeitung* (daily reach 32%)
- 2015 Role model for Ada Lovelace Day in Vienna Technical Museum, Vienna
- 2015 Interview for article "Ada Lovelace - die Zauberin der Zahlen" by [science.orf.at](http://science.orf.at)
- 2013 Role model for the WWTF Proposer's day for the "Mathematics and ..." Call 2014, Vienna
- 2012 Interview for article "Theoretische Mathematik pur mit Turingmaschine: Was ist überhaupt berechenbar?" in *Falter*