

# Vitaly Bragilevsky

## Curriculum Vitae

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### Education

- 2001–2003 **M.Sc. in Applied Mathematics and Computer Science**, *Rostov State University*, Rostov-on-Don, Russia, *with honours*, Singular-type operators in the spaces of vector-valued functions, supervised by prof. V.S. Pilidi.
- 1997–2001 **B.Sc. in Applied Mathematics and Computer Science**, *Rostov State University*, Rostov-on-Don, Russia, *with honours*.

#### Other

- DeepSpec Summer School on Verified Systems, Princeton, NJ, USA, July 16–July 27, 2018.
- Summer School Marktoberdorf 2011 (Tools for Analysis and Verification of Software Safety and Security), Bayrischzell, Germany, August 2–14, 2011.
- 10th Annual Oregon Programming Languages Summer School (Types, Semantics and Verification), University of Oregon, Eugene, OR, USA, June 16–July 1, 2011.

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### Academy Awards

- Aug 2018–  
Jan 2019 **Fulbright Faculty Development Program Grantee, Courtesy Research Assistant**, *University of Oregon*, Eugene, OR, USA.
- June 2017–  
June 2018 **Vladimir Potanin Foundation Grantee**, *Developing Graduate Course in Data Visualization*, Southern Federal University, Rostov-on-Don, Russia.

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### Academy Experience

- 2003–2019 **Senior Lecturer**, *Southern Federal University (SFedU), I.I. Vorovich Institute of Mathematics, Mechanics and Computer Science*, Rostov-on-Don, Russia.

Current Courses: Functional Programming in Haskell (since 2009), Theory of Computations (since 2012), Theory of Programming Languages, Data Visualization.

Past Courses: Abstract Algebra, Category Theory, Web/XML-technologies, Computer Networks, Operating Systems, Programming in (Java, Python), Computer Methods in Discrete Mathematics, *etc.*

#### Guest Lecturing

- Programming in Idris with Dependent Types, University of Twente (Enschede, The Netherlands), May 2016; CS Club (St. Petersburg, Russia), February 2017; Higher School of Economics (Moscow, Russia), November 2017.
  - The Curry–Howard Correspondence: from Logic to Programming and Back Again, Summer School on Contemporary Mathematics (Dubna, Russia), July 2017.
  - The Glasgow Haskell Compiler: Theory of Programming Languages at Work, CS Club (St. Petersburg, Russia), March 2018.
  - The Type Theory Behind the Glasgow Haskell Compiler Internals, LambdaConf (Boulder, CO, USA), June 2018.
  - Type Inference from Hindley–Milner to GHC, CS Club (St. Petersburg, Russia), March 2019.
  - Introduction to the Theory of Programming Languages, CS Summer School (Novosibirsk, Akademgorodok, Russia), June 2019.
- 2007–2019 **Curriculum Designer**, *Southern Federal University, I.I. Vorovich Institute of Mathematics, Mechanics and Computer Science*, undergraduate and graduate programs in Theoretical Computer Science and Information Technologies.
- 2015–2019 **Coordinator**, *AWS Educate Initiative, iOS Developer University Program (for SFedU)*.
- 2002–2017 **Teacher**, *Computer School for children (Southern Federal University)*, Rostov-on-Don, Russia.

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## Writing and Publishing

2017–2019 **Writer**, *Haskell in Depth*, Manning Publications, *work in progress*, available via MEAP.

2015–2018 **Technical Proofreader, External Reviewer**, Manning Publications.

2012–2018 **Translator, Editor**, DMK Press.

Translations from English to Russian

- M. Lipovača. Learn you a Haskell for Great Good (*editor*), 2012.
- G. Dowek, J.-J. Lévy. Introduction to the Theory of Programming Languages (*translator, with Artem Pelenitsyn*), 2013.
- R. Bird. Pearls of Functional Algorithm Design (*translator, with Artem Pelenitsyn*), 2013.
- S. Marlow. Parallel and Concurrent Programming in Haskell (*translator*), 2014.
- C. Okasaki. Purely Functional Data Structures (*editor*), 2016.
- W. Kurt. Get Programming with Haskell (*editor*), 2018.

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## Software Development Experience

2012–2013 **Senior Developer**, *Implementing vector operations within LLVM infrastructure*, Angstrom-SFedU laboratory.

2012 **GHC Contributor**, *Implementing `-interactive-print` feature in GHCi (Haskell)*.

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## Selected Conference Talks

- FPConf-2016 (Moscow, Russia), Haskell 2020: problems and perspectives.
- F(by)-2019 (Minsk, Belarus), Haskell and Type Theory: Better Together.
- BobKonf-2019 (Berlin, Germany), A Tutorial on Type-level programming in Haskell.
- AppsConf-2019 (Moscow, Russia), Don't bother me with functional programming.
- FPure-2019 (Kazan, Russia), Crash Course on Compiler Development in Haskell.
- *Meetup and seminar talks* in Russia (Rostov-on-Don, St. Petersburg) and USA (Eugene, OR; Portland, OR; Boston, MA; New York, NJ).

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## Community Services

2018–present **GHC Steering Committee Member**.

2016–present **Haskell 2020 Language Committee Member**.

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## Interests

History Medieval Europe

Literature Contemporary writers

Music 19th century music, opera