Vitaly Bragilevsky

Curriculum Vitae

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Professional Experience

Academy

2019–2022 **Lecturer, Curriculum Designer**, *Saint Petersburg State University, Department of Mathematics and Computer Science*, Saint Petersburg, Russia.
Courses: Programming Foundations (Julia, Kotlin), Operating Systems, Mathematical Logic in CS.

2021 **Lecturer**, *Computer Science Center*, Saint Petersburg, Russia.
Courses: Mathematical Logic in CS, Practical Minimum for Software Developers.

2021 **Lecturer**, *European University*, Saint Petersburg, Russia.
Courses: Data Visualization in Humanities (with R programming language).

2003–2019 **Lecturer, Curriculum Designer (since 2007)**, *Southern Federal University (SFedU), I.I. Vorovich Institute of Mathematics, Mechanics and Computer Science*, Rostov-on-Don, Russia.
Courses: Functional Programming in Haskell (since 2009), Theory of Computations (since 2012), Theory of Programming Languages, Data Visualization, Abstract Algebra, Category Theory, Web/XML-technologies, Computer Networks, Operating Systems, Programming in (Java, Python), Computer Methods in Discrete Mathematics, *etc.*

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.

Software Development

2019–2022 **Software Developer, Team Lead**, *JetBrains*, Saint Petersburg, Russia.

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

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

Writing and Publishing

Author, *Haskell in Depth, Manning Publications*, 2021.

Technical Proofreader, External Reviewer, Manning Publications.

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.

Other activities

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, Academgorodok, Russia), June 2019.

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).

Community Services

2018–2022 **GHC (Glasgow Haskell Compiler) Steering Committee Member**.

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.

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.