Anna Bolotina

Curriculum Vitæ

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Education

Southern Federal University, Rostov-on-Don, Russia — *2014–2018*
BSc in Computer Science and Information Technologies, June 2018

Bachelor's Thesis

Detecting Recursion Points in Generic Programming in the Haskell Language
Supervisor Vitaly Bragilevsky
Co-supervisor Artem Pelenitsyn

Research Interests

Datatype-generic programming · Functional programming · Haskell · Programming languages design and implementation · Type theory · Formal semantics · Compilers · Design patterns · Domain-specific languages · Dependently typed programming · Formal methods · Verification techniques · Theorem provers · Category theory

Occupation

Junior Researcher — *2019–present*
Programming Research Lab, *Czech Technical University in Prague*, Prague, Czechia

Manuscripts

Fast Sequences in Racket — *2022*
Anna Bolotina, Ryan Culpepper — *Work in submission* [PDF]

Handling Recursion in Generic Programming Using Closed Type Families — *2018*
Anna Bolotina, Artem Pelenitsyn — [PDF]

Conference Talks

The 19th International Symposium on Trends in Functional Programming — *TFP 2018*
Talk "Handling Recursion in Generic Programming Using Closed Type Families"
Gothenburg, June 2018 — [Slides]

Seminar Talks

Programming Languages and Compilers Seminar — *2017*
Talk "Defining a Generic Zipper Using generics-sop" (in Russian) — [Slides]
Southern Federal U., Rostov-on-Don, May 2017

Programming Languages and Compilers Seminar — *2016*
Talk "Differentiation and Generic Zippers in Haskell" (in Russian) — [Slides]
Southern Federal U., Rostov-on-Don, November 2016

Summer Schools

The 2nd International Programming Language Implementation Summer School — *PLISS 2019*
Bertinoro, Italy, 19–24 May 2019

Selected Courses (taken at SFedU)

- Development of Optimizing Compilers — *Spring 2019*
- Program Transformation — *Fall 2018*
- Compiler Development — *Fall 2017*
- Functional Programming — *Fall 2017*

- ◇ Category Theory *Spring 2017*
- ◇ Software Design Patterns *Spring 2017*
- ◇ Theory of Automata and Formal Languages *Fall 2016*
- ◇ Theory of Computation *Spring 2016*

MOOC

Introduction to Functional Programming, *edX* *January 2016*
Prof. Erik Meijer, TU Delft [Certificate]

Computer Skills

Languages	Haskell, Racket, C#, C++, Pascal, Agda, Python, Julia, Lisp
Markup	LaTeX, Scribble, Markdown, HTML, CSS
Environment	Emacs, git, stack, bash
Operating systems	GNU/Linux family, Windows family

Languages

Russian	Mother tongue
English	Fluent