Anna Bolotina

Curriculum Vitæ

University of Salzburg
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Education	**PhD Student** *University of Salzburg*, Salzburg, Austria	*2024–present*
	MSc in Computer Science, September 2024 *University of Salzburg*, Salzburg, Austria	
	BSc in Computer Science and Information Technologies, June 2018 *Southern Federal University*, Rostov-on-Don, Russia	
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

Employment	**Junior Researcher** *University of Salzburg*, Salzburg, Austria	*2022–March 2024*
	Junior Researcher Programming Research Lab, *Czech Technical University in Prague*, Prague, Czechia	*2019–2022*

Refereed Publications	**Composable Sequence Macros for Fast Iteration** *Anna Bolotina*, Ryan Culpepper In *21st ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences,* Auckland, New Zealand, December 2022	*GPCE 2022* [DOI]
Manuscripts (Unpublished)	**Handling Recursion in Generic Programming Using Closed Type Families** *Anna Bolotina*, Artem Pelenitsyn	*2018* [PDF]
Conference Talks	**The 19th International Symposium on Trends in Functional Programming** *Talk "Handling Recursion in Generic Programming Using Closed Type Families"* Gothenburg, June 2018	*TFP 2018* [Slides]
Seminar Talks	**Programming Languages and Compilers Seminar** *Talk "Defining a Generic Zipper Using generics-sop"* (in Russian) Southern Federal U., Rostov-on-Don, May 2017	*2017* [Slides]
	Programming Languages and Compilers Seminar *Talk "Differentiation and Generic Zippers in Haskell"* (in Russian)	*2016* [Slides]

Southern Federal U., Rostov-on-Don, November 2016

Summer Schools	**The 2nd International Programming Language Implementation Summer School** Bertinoro, Italy, 19–24 May 2019	*PLISS 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* Prof. Erik Meijer, TU Delft	*January 2016* [Certificate]

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

Languages	*Russian* *English*	Mother tongue Fluent