

Anna Bolotina

CURRICULUM VITÆ

UNIVERSITY OF SALZBURG

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EDUCATION	PhD Student <i>University of Salzburg, Salzburg, Austria</i> MSc in Computer Science , September 2024 <i>University of Salzburg, Salzburg, Austria</i> BSc in Computer Science and Information Technologies , June 2018 <i>Southern Federal University, Rostov-on-Don, Russia</i>	2024–present
BACHELOR'S THESIS	Detecting Recursion Points in Generic Programming in the Haskell Language <i>Supervisor</i> Vitaly Bragilevsky <i>Co-supervisor</i> 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 <i>University of Salzburg, Salzburg, Austria</i> Junior Researcher Programming Research Lab , <i>Czech Technical University in Prague, Prague, Czechia</i>	2022–March 2024 2019–2022
REFEREED PUBLICATIONS	Composable Sequence Macros for Fast Iteration <i>Anna Bolotina, Ryan Culpepper</i> In <i>21st ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences</i> , Auckland, New Zealand, December 2022	GPCE 2022 [DOI]
MANUSCRIPTS (UNPUBLISHED)	Handling Recursion in Generic Programming Using Closed Type Families <i>Anna Bolotina, Artem Pelenitsyn</i>	2018 [PDF]
CONFERENCE TALKS	The 19th International Symposium on Trends in Functional Programming Talk “Handling Recursion in Generic Programming Using Closed Type Families” Gothenburg, Sweden, June 2018	TFP 2018 [Slides]
SEMINAR TALKS	Seminar on Advances in Database Research Talk “Tree-Encoded Bitmaps” University of Salzburg, Salzburg, December 2024 Programming Languages and Compilers Seminar Talk “Defining a Generic Zipper Using <i>generics-sop</i> ” (in Russian)	2024 [Slides] 2017 [Slides]

Southern Federal U., Rostov-on-Don, May 2017

Programming Languages and Compilers Seminar

Talk “Differentiation and Generic Zippers in Haskell” (in Russian)

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

2016

[\[Slides\]](#)

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
- ◇ Program Transformation
- ◇ Compiler Development
- ◇ Functional Programming
- ◇ Category Theory
- ◇ Software Design Patterns
- ◇ Theory of Automata and Formal Languages
- ◇ Theory of Computation

Spring 2019

Fall 2018

Fall 2017

Fall 2017

Spring 2017

Spring 2017

Fall 2016

Spring 2016

MOOC

Introduction to Functional Programming, *edX*
Prof. Erik Meijer, TU Delft

January 2016

[\[Certificate\]](#)

COMPUTER
SKILLS

<i>Languages</i>	Haskell, Racket, C#, C++, Pascal, Rust, Agda, Python, Julia, Lisp
<i>Markup</i>	L ^A T _E X, Scribble, Markdown, HTML, CSS
<i>Environment</i>	Emacs, git, stack, bash
<i>Operating systems</i>	GNU/Linux family, Windows family

LANGUAGES

<i>Russian</i>	Mother tongue
<i>English</i>	Fluent