

Anna Bolotina

CURRICULUM VITÆ

UNIVERSITY OF SALZBURG

KAPITELGASSE 4/6

5020 SALZBURG, AUSTRIA

Email: anne.bolotina@gmail.com

Web: annbolotina.github.io

Phone: +43 699 8196 2515

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

GPCE 2022

Anna Bolotina, Ryan Culpepper

[DOI]

In *21st ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences*,

Auckland, New Zealand, December 2022

MANUSCRIPTS (UNPUBLISHED)

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”

[Slides]

Gothenburg, Sweden, June 2018

SEMINAR TALKS

Seminar on Advances in Database Research

2024

Talk “Tree-Encoded Bitmaps”

[Slides]

University of Salzburg, Salzburg, December 2024

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

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

PLIIS 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

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

LANGUAGES

Russian Mother tongue
English Fluent