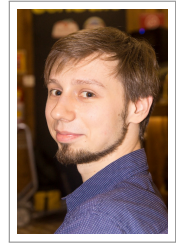


Artem Pelenitsyn

Curriculum Vitæ

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Education

- 2003–2007 **B.Sc. in Applied Mathematics and Computer Science**, *Southern Federal University*, Rostov-na-Donu, Russia.
Major: Foundations and Software Engineering for Computer Science
- 2007–2009 **M.Sc. in Applied Mathematics and Computer Science**, *Southern Federal University*, Rostov-na-Donu, Russia.
Major: Foundations and Software Engineering for Computer Science

Master thesis

- title *BMS-algorithm and its application to decoding*
supervisor Assoc. prof. V.M. Deundyak

Research interests

- Programming languages,
- Type systems and type theory,
- Functional programming,
- Mathematics of programming.

Experience

Occupation

- 2010–2011, 2012–2017 **Assistant professor, lecturer**, *Southern Federal University*, Rostov-na-Donu, Russia.
- Spring 2017 **Research assistant at Programming Research Laboratory**, *Northeastern University*, Boston, MA, USA.
- Fall 2017 **Research assistant at Programming Research Laboratory**, *Czech Technical University*, Prague, Czech Republic.

Teaching (at Southern Federal University)

- Quantum Computations (lectures) — 2016 (fall).
- Computer Architecture (lectures & labs) — 2013–2016 (spring).
- Automata and Ciphers (lectures) — 2013–2016 (fall).
- Programming Basics labs — 2008, 2010–2012, 2014–2016.
- Programming Languages labs — 2008, 2010, 2012–2015 (fall).
- Functional Programming labs — 2011 (spring).

- Automata and Languages — 2010 (spring).
- Microprogramming/Assembler Programming labs — 2009 (fall).
- Geometry and Algebra — 2009 (fall).

Supervising student projects

- *Structuring Effectful Computations* — MSc G. Lukyanov, 2017
- *Generic Programming and Zippers* — A. Bolotina, 2017
- *Generation of algebraic data types descriptions based on JSON data via Template Haskell* — BSc O. Maroseev, 2016
- *Generation of type class instances based on instances of superclasses via GHC API* — BSc O. Filippskaya, 2016
- *Functional parser for Markdown using monad combination and monoidal representation of input* — BSc G. Lukianov, 2015
- *Deduction system for linear logic in Haskell* — BSc V. Pankov, 2015

Summer schools and other extra trainings

- 2017 **Oregon Programming Languages Summer School**, *Univeristy of Oregon*, Eugene, USA, June 26th to July 8th 2017.
- 2015 **Summer School on Generic and Effectful Programming**, *Department of Computer Science, Univeristy of Oxford*, St Anne's College, Oxford, 6th to 10th July 2015.
- 2011 **Summer School "Algebra and Geometry"**, *Laboratory of Algebraic Geometry in the National Research University Higher School of Economics, Teachers' Training University of Yaroslavl'*, Yaroslavl', Russia.
- 2010 **Microsoft Algorithms and Data Structures Summer School**, *Microsoft Research in Silicon Valey*, Saint-Petersburg, Russia.
- 2010 **Winter School on Applied Mathematics and Computer Science**, *National Research University Higher School of Economics*, Moscow province, Russia.
- 2009 **Marktoberdorf Summer School "Logics and Languages for Reliability and Security"**, Marktoberdorf, Germany.

Participation in MOOC

- Coursera, **The Hardware/Software Interface**, *Prof. J.D. Noe*, 2013
- Coursera, **Quantum Mechanics and Quantum Computation**, *Prof. U. Vazirani*, 2012
- Coursera, **Functional Programming Principles in Scala**, *Prof. M. Odersky*, 2012
- Coursera, **Introduction to Logic**, *Assoc. Prof. M. Genesereth*, 2012
- Coursera, **Compilers**, *Prof. A. Aiken*, 2012
- Coursera, **Automata**, *Prof. J. Ullman*, 2012
- Coursera, **Cryptography I**, *Prof. D. Boneh*, 2012

Coursera, **Algorithms I**, Assoc. Prof. T. Roughgarden.
2012

Personal awards, scholarships, etc.

- 2012 **Participation in all-russian final of international student olympiad "IT-planet"**, competition: "Oracle Java Olympic".
- 2012 **Diploma for taking second place in regional stage of international student olympiad "IT-planet"**, competition: "Oracle Java Olympic".
- 2012 **Participation in the final stage of VI Open Programming Contest of Southern Federal University**, individual event.
- 2011 **Scholarship from foundation "Education and Science on the South of Russia"**.
- 2011 **Rector's commendation for participating in international accreditation of university teaching programmes**, *Southern Federal University*.
- 2008 **Diploma for the best talk**, student session during annual "Week of Science", *Southern Federal University*.

Conference Talks: Science

- 2015 **Scientific Conference "Modern Information Technologies and IT-Education"**, talk "C++17 Concepts in their relation to C++0x ones", Lomonosov Moscow State University, Faculty of Computational Mathematics and Cybernetics.
- 2012 **Research and Practice Conference: Free Open Source Software "FOSS Lviv 2012"**, talk "Software Implementation of Decoder For a Class Of Error-Correcting Codes on Algebraic Curves: Designing on a Basis of Generic Metaprogramming Templates", Ivan Franko National University of Lviv, Lviv, Ukraine.
- 2008 **Conference "Week of Science" in Southern Federal University**, talk "On Implementation of Decoder for a Class of Algebraic-Geometry Codes on Projective Curves using Sakata algorithm", Rostov-na-Donu, Russia.

Conference Talks: Education, Technology, Popular Science

- 2015 **Scientific Conference "Modern Information Technologies in Education"**, talk "Store and publication assignment infrastructure for Moodle LMS", Institute for Mathematics, Mechanics and Computer Science in honour of I. I. Vorovich, Rostov-na-Donu, Russia.
- 2014 **Joint International Program For Scientific and Technology Cooperation**, talk "Computer Science Projects Developed inside (in connection with) Department of Mathematics, Mechanics and Computer Sciences / SFedU", Sao Paulo, Rio de Janeiro, Fortaleza, Brasil.
- 2010 **Scientific-Methodic Conference "Modern Information Technologies in Education"**, talk "Methodic Supply and IT-infrastructure for Teaching Low-Level Programming", Computing Center of Southern Federal University, Rostov-na-Donu, Russia.
- 2008 **International Conference on Information Security and Safety**, talk "Building Web-portal for Information and Education purposes on Computing Department", Taganrog, Russia.

Seminar Talks

- 2016 **Functional Visitors**, *Programming Languages and Compilers seminar*.

- 2016 **Seminar on Galois Theory**, Institute for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2011 **Minicourse on Galois Theory**, *Algebra seminar*, Faculty for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2011 **Talks “Foundations for programming Languages”, “Automata and Formal Languages”**, *seminar for undergraduates “Introduction to Theoretical Computer Science”*, Faculty for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2009 **Talk “Higher-Order Computations and Model Checking”**, *Interchair seminar on Computer Science*, Faculty for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2009 **Talk “On multi-dimensional version of Berlekamp-Massey algorithm”**, *Seminar on Mathematical Methods in Information Safety and Security*, Faculty for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2009 **Talk “Inductive Data Types in Programming”**, *Seminar on Category Theory*, Faculty for Mathematics, Mechanics and Computer Science, Southern Federal University, Rostov-na-Donu.
- 2008 **Talk “Spring Framework”**, *Rostov Java User Group*, Computing Center of Southern Federal University, Rostov-na-Donu.

Publications

- Lujyanov G., Pelenitsyn A. Building parsers with algebraic effects // Proceedings of the First Russian Conference on Programming Languages and Compilers (PLC'17), 2017, pp. 185–190.
- Pelenitsyn A. Associated Types and Constraint Propagation for Generic Programming in Scala // “Programming and Computer Software” (english trans. of “Programmirovaniye”), 2015, No 4, pp. 224–230. DOI: 10.1134/S0361768815040064
- Pelenitsyn A. Generic and meta- programming approach to design of software implementation of decoder for a class of algebraic geometry codes // “Prikladnaya informatika” (Applied computer science), 2012, No 2(38), pp. 60–70.
- Pelenitsyn A. On exploiting one metaprogramming technique. Journal of the Ivanovo Mathematical Society, 2011, No. 1(8), pp.79–84.
- Deundyak V., Pelenitsyn A. Operator-theoretic approach to Berlekamp–Massey Algorithm, // Izvestia vuzov (Universities’ Bulletin), Sev.-Kav. Region (Caucasus Region), Estestvennye Nauki (Sciences), 2011, No. 3. Pp. 11–13.
- Mayevskiy A., Pelenitsyn A. Software Implementation of Algebraic-Geometry Codec using Sakata algorithm, // Izvestia Yufu (Southern Federal University Bulletin), Technology Sciences, 2008, No. 8, pp. 196–198.

Papers In Conference Transactions

- Pelenitsyn A. On Implementation of n-Dimensional BMS-algorithm Using Generic Programming // Transactions of Scientific School of I.B. Simonenko, 2010, pp. 197–203.
- Mayevskiy A., Pelenitsyn A. Methodic Supply and IT-infrastructure for Teaching Low-Level Programming // Transactions of Scientific-Methodic Conference “Modern Information Technologies in Education”, 2010, pp. 210–212.

- Mayevskiy A., Pelenitsyn A. On Software Implementation of Algebraic-Geometry Codec using Sakata algorithm, // Transactions of X International Conference on Information Security and Safety, 2008, pp. 55–57.
- Pelenitsyn A. On Implementation of Decoder for a Class of Algebraic-Geometry Codes on Projective Curves using Sakata algorithm, // Transactions of the Conference "Week of Science" in Southern Federal University, 2008, vol. 1, pp. 55–57.
- Bragilevsky V., Mihalkovich S., Pelenitsyn A. Building Web-portal for Information and Education purposes on Computing Department // Transactions of Scientific-Methodic Conference "Modern Information Technologies in Education", 2008, pp. 48–49.

Book Translations

- Dowek, Gilles, Levy, Jean-Jacques. Introduction to the Theory of Programming Languages. / Springer. 2011. Russian translation together with V. Bragilevskiy. Published by DMK Press in 2013.
- Bird, Richard. Pearls of Functional Algorithm Design. / Cambridge University Press. 2010. Russian translation together with V. Bragilevskiy. Published by DMK Press in 2013.

Computer skills

Programming languages	C, C++(14) , Haskell , Java , Scala, Julia, Pascal, C#
Markup, Scripting	LaTeX , HTML, CSS, JavaScript, PHP, bash, Regular expressions
Environment	Git, Make, Wiki/Markdown
Operating systems	GNU/Linux family , Windows family

(Not So) Toy Programming Projects (mostly on GitHub)

chek-test	Remove groove from checking students' submissions / Haskell
cpp-mv-poly	C++-implementation of multivariate polynomials and the BMS-algorithm massively using C++ templates
mmcs-entrance	Generation of entrance diagrams (in PNG) in MMCS/SFedU from oficial data (XLS) / Java, 2010
lj-comments-notifier	A tool for notifying about new comments in some livejournal.com-based blog / Haskell
Project Euler GitHub	Link to the participant record / Haskell (mostly), C++ ulysses4ever

Languages

Russian	Native
English	Advanced (IELTS exam band score 7.5 taken in 2012)

Interests

Classical literature	Homer, Goethe, Joyce, Kafka, Camus, Sartr, Brodsky
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Art cinema Bergman, Fellini, Truffaut, Tarkovsky, Wenders, Kitano, von Trier

Extra info

Gender Male

Marital status Single

Current place
of living Prague, Czech Republic

Citizenship,
Homeland Russia