

Martin Drozdík

Curriculum Vitae

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Key skills

- APPLIED MATHEMATICS Multi-objective optimization, evolutionary computation, computational geometry, algorithm design, graph algorithms, probability theory, statistics.
- C++ **6 years** active experience. Deep interest in best practices and C++11/14. Experience with high-performance code and parallelization.
- QT **3 years** active experience, especially in **GUI** design and implementation.

IT skills

- Operating systems LINUX / UBUNTU / BASH
- Office MERCURIAL, LIBREOFFICE, LATEX, INKSCAPE
- Programming VALGRIND, QMAKE, MATLAB/OCTAVE, SQL, R, EIGEN
- Web development JAVASCRIPT, HTML, CSS

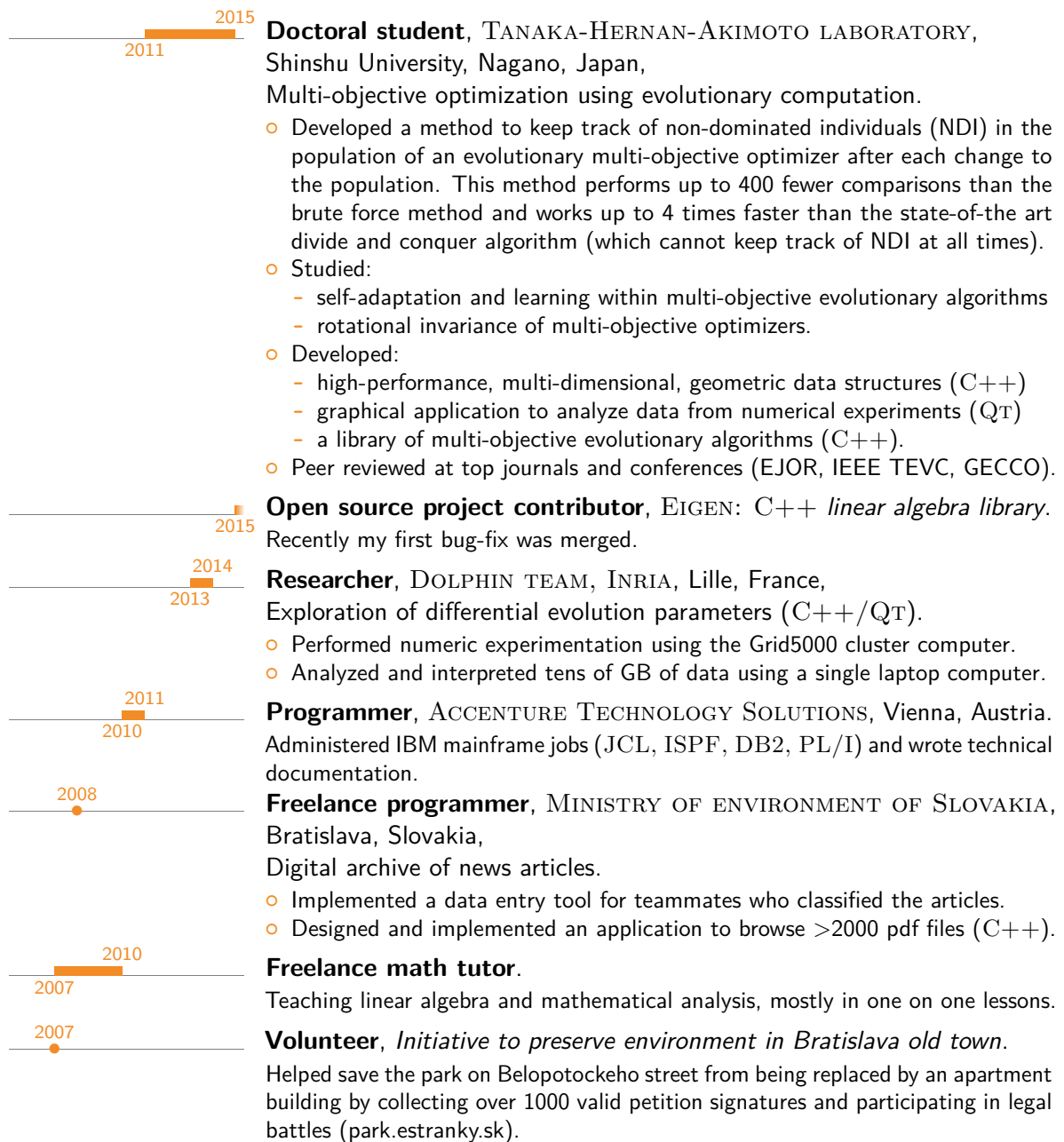
Awards and scholarships

- 2014
2010 **Monbukagakusho**, *Scholarship of the Japanese Ministry of Education*, Awarded to two research students from Slovakia annually. Selection based on research plan quality and recommendation from a prospective supervisor from the Japanese side.
- 2013 **IEEE Young Researcher Presentation Award**, *IEEE Session*, Niigata.
- 2008 **Erasmus**, *Full scholarship and tuition for 5 months (University of Pisa)*.
- 2008 **Dean's motivational scholarship**, *top 10% of class*, awarded 4 times.
- 2005

Languages

- | Fluent | Intermediate | Beginner | Native |
|------------|--------------|----------|----------|
| o English | o Italian | o French | o Slovak |
| o Japanese | o German | | o Czech |

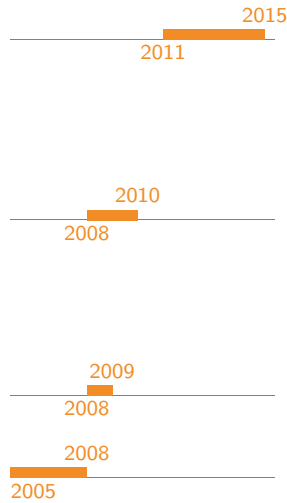
Professional experience



Books that influenced me professionally

Robert C. Martin	Clean Code
Scott Meyers	Effective C++, Effective Modern C++
Herb Sutter	Exceptional C++ Style

Formal education



Doctorate, ENGINEERING (COMPUTER SCIENCE),
Department of Mathematics and System Development, Shinshu University,
Nagano, Japan.

Title of thesis : Improvements in Understanding and Performance of Multi-objective Differential Evolution ➡

Master, APPLIED MATHEMATICS,
Comenius University in Bratislava, Slovakia,
Graduated with honors.

Title of thesis : Stochastic Processes in State Space Form and ML Estimation of Their Parameters

Erasmus exchange student, MATHEMATICS AND ECONOMICS,
University of Pisa, Italy.

Bachelor, APPLIED MATHEMATICS,
Comenius University in Bratislava, Slovakia,
Graduated with honors.

Title of thesis : Strange Functions in Mathematical Analysis

Major publications

- 2015 M. Drozdik, H. Aguirre, Y. Akimoto, and K. Tanaka
Comparison of Parameter Control Mechanisms in Multi-objective Differential Evolution
Presented at the *Learning and Intelligent Optimization (LION9)* conference, To appear in *Lecture Notes in Computer Science, volume 8994*. ➡
- 2014 M. Drozdik, H. Aguirre, Y. Akimoto, and K. Tanaka
Computational Cost Reduction of Non-dominated Sorting Using M-front
In *IEEE Transactions on Evolutionary Computation*. ➡
- 2014 M. Drozdik, K. Tanaka, H. Aguirre, S. Verel, A. Liefooghe, and B. Derbel
An Analysis of Differential Evolution Parameters on Rotated Bi-objective Optimization Functions
Presented at the *Simulated Evolution and Learning (SEAL2014)* conference, published in *Lecture Notes in Computer Science, volume 8886*. ➡
- 2013 M. Drozdik, H. Aguirre, and K. Tanaka
Attempt to Reduce the Computational Complexity in Multi-objective Differential Evolution Algorithms
Presented at the *GECCO 2013 conference*, published in *Proceedings of the 15th Annual Conference on Genetic and Evolutionary Computation*. ➡