

Martin Drozdík

Curriculum Vitae

Björnsonova 1
Bratislava, 81105
Slovakia

+33 78 36 38 742 (France)
✉ drozdik.svk@gmail.com
www.martindrozdik.com



Research interests

- Evolutionary computation
- Multi-objective optimization
- Computational geometry
- Differential evolution

Key skills

- MATHEMATICS 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

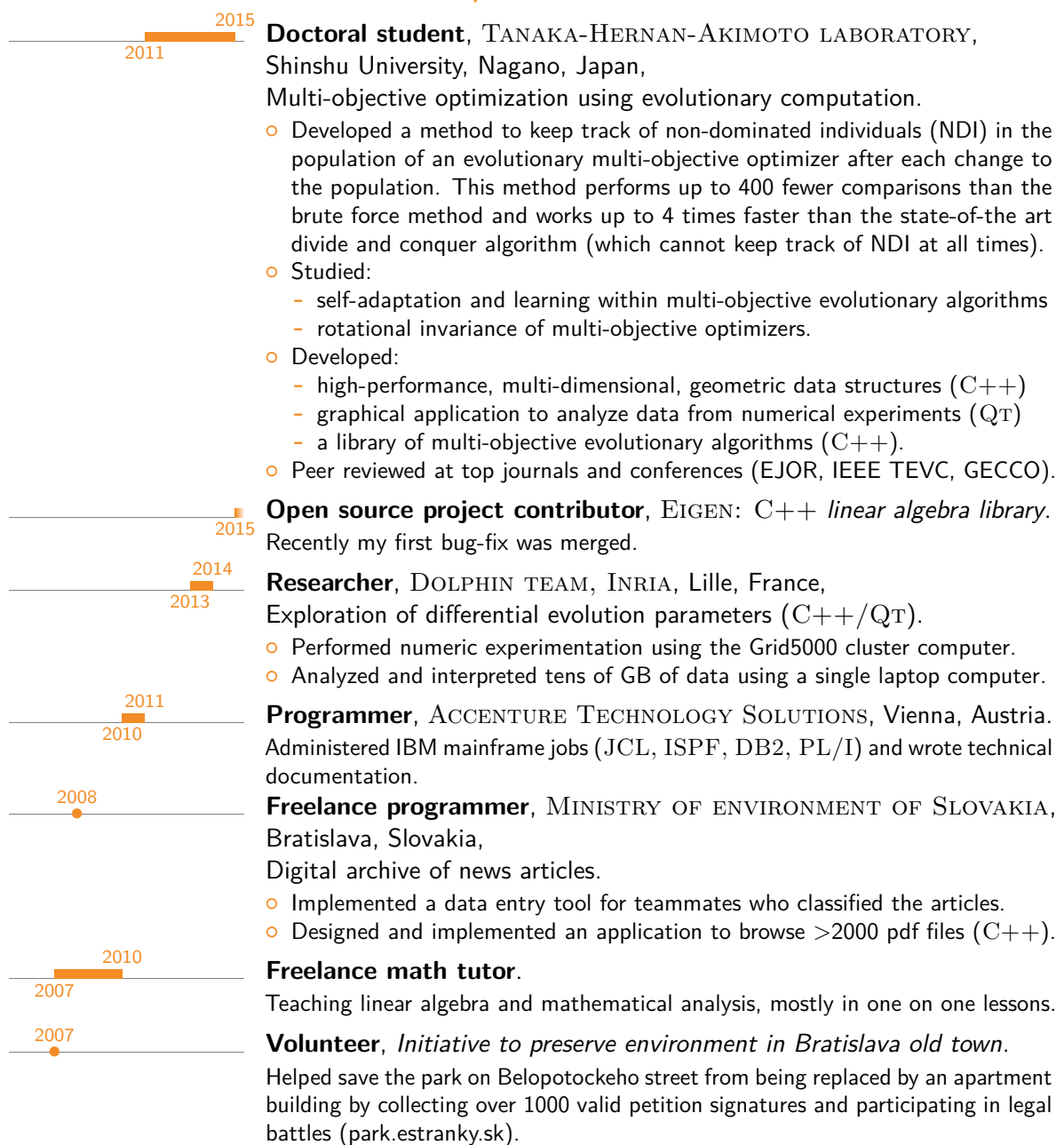
Awards and scholarships

- 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 6 months (University of Pisa)*.
- 2008
2005 **Dean's motivational scholarship**, *top 10% of class*, awarded 4 times.

About me

I have a very strong sense of *beauty* and *quality*. I aim for the highest efficiency in everything I do, and I always strive to *do The right thing*.

Professional experience



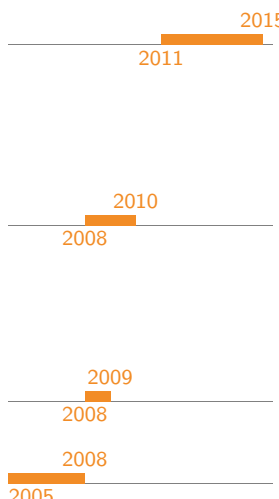
Languages

English	Advanced	10+ years, IT and mathematics terminology.
Japanese	Intermediate	Living in Japan for 3 years, actively studying.
German	Intermediate	8 months on an IT project in Austria.
Italian	Intermediate	Studied mathematics and economics in Italian.
French	Beginner	Actively studying.
Slovak/Czech	Native	

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*.

Formal education

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- A horizontal timeline bar with orange segments representing years. The years 2015, 2011, 2010, 2008, 2009, and 2005 are labeled at the end of their respective segments. The segments are connected by thin lines.
- 2015 **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
- 2010 **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
- 2009 **Erasmus exchange student**, MATHEMATICS AND ECONOMICS,
University of Pisa, Italy.
- 2008 **Bachelor**, APPLIED MATHEMATICS,
Comenius University in Bratislava, Slovakia,
Graduated with honors.
Title of thesis : Strange Functions in Mathematical Analysis
- 2005

Free time

- Football I play regularly.
- Videogames Real time strategy.
- Sci-fi literature Especially Robert Heinlein, Arthur C. Clarke, and Joe Haldeman.