

Martin Drozdík

Curriculum Vitae

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Research interests

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

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 JAVASCRIPT, MATLAB / OCTAVE, SQL, R, EIGEN, MATHGL
Web development HTML, CSS

Awards and scholarships

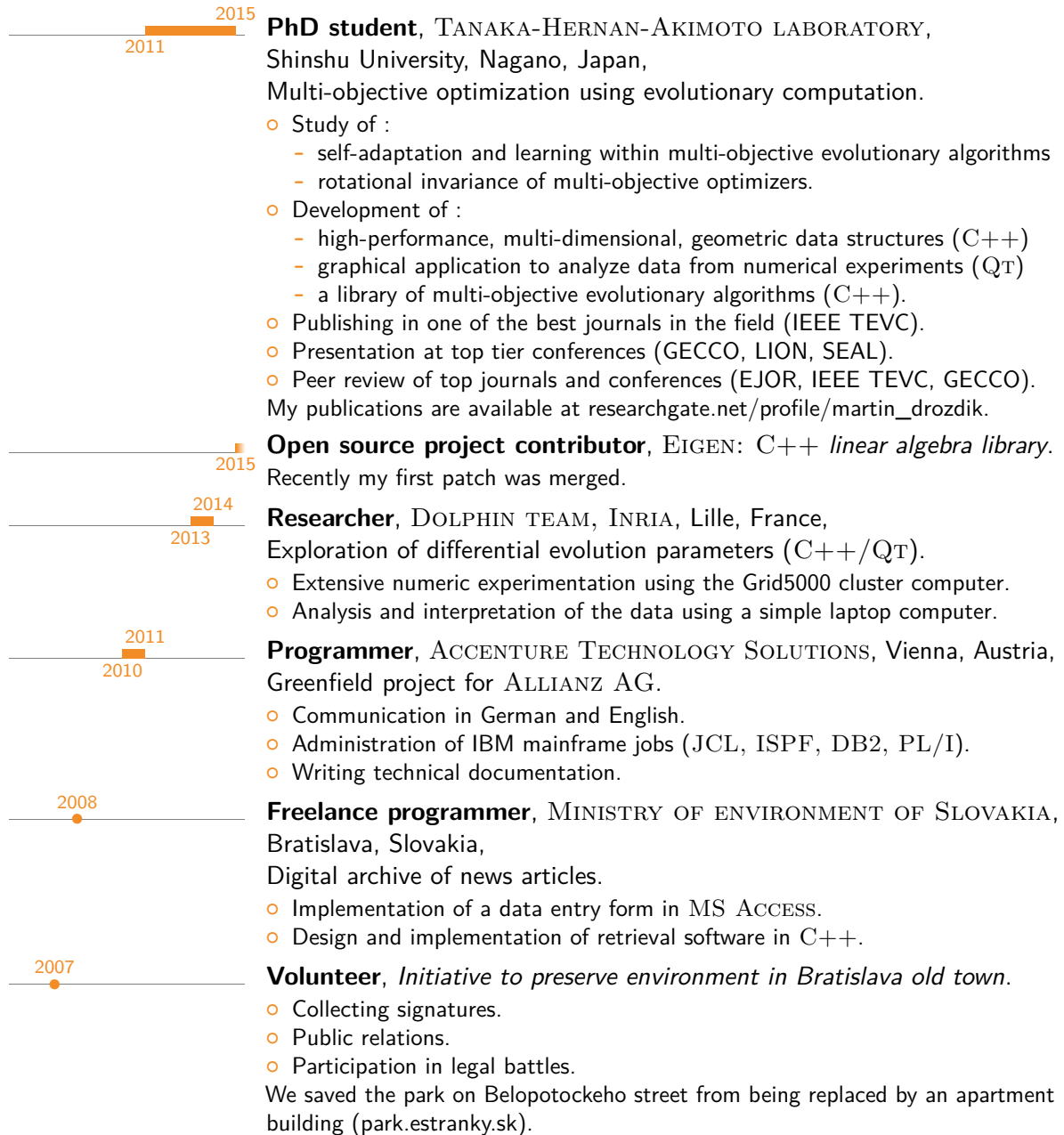
2014
2010
2013
2008
2008
2005

Monbukagakusho, *Scholarship of the Japanese Ministry of Education*, Awarded to two students from Slovakia annually to pursue a PhD course.
IEEE Young Researcher Presentation Award, *IEEE Session*, Niigata.
Erasmus, *Full scholarship and tuition for 6 months (University of Pisa)*.
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



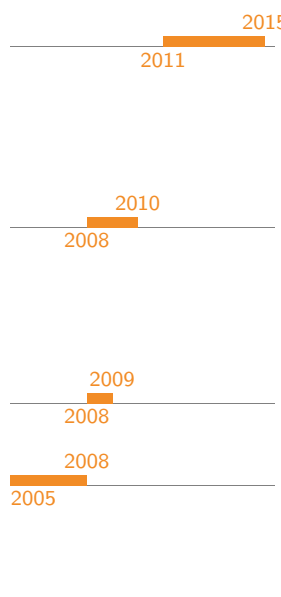
Languages

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*.
- 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 and labels for the years 2005, 2008, 2009, 2010, 2011, and 2015. The segments are connected by thin lines, showing a continuous period of education.
- 2015 **PhD, COMPUTER SCIENCE**,
Department of Mathematics and System Development, Shinshu University,
Nagano, Japan, Graduating on 25th of March 2015.
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 in Bratislava, Slovakia,
Graduated with honors.
Title of thesis : Strange Functions in Mathematical Analysis

Free time

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