

Martin Drozdík

Curriculum Vitae

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Belgium

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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

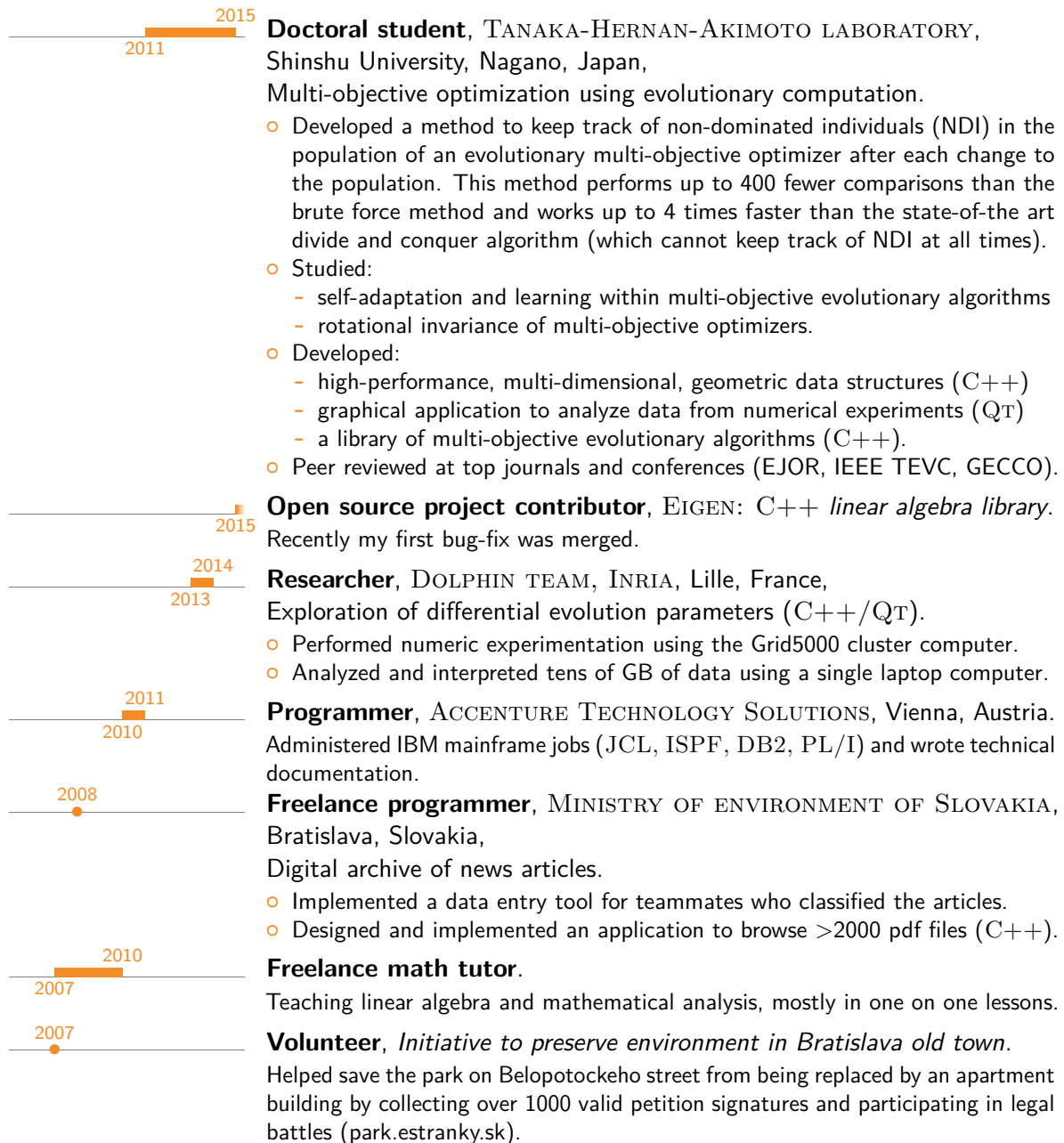
- Operating systems LINUX / UBUNTU / BASH
- Office MERCURIAL, LIBREOFFICE, LATEX, INKSCAPE
- Programming VALGRIND, QMAKE, MATLAB/OCTAVE, SQL, R, EIGEN
- Web development JAVASCRIPT, HTML, CSS

Languages

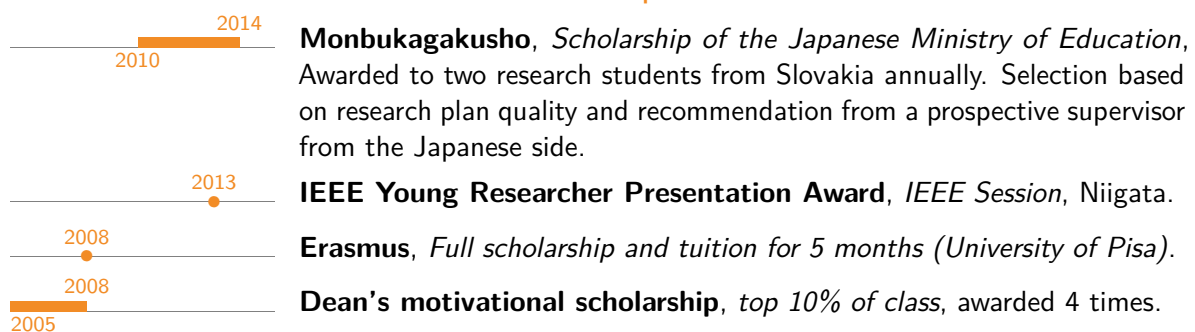
- | Fluent | Intermediate | Beginner | Native |
|------------|--------------|----------|----------|
| ○ English | ○ Italian | ○ French | ○ Slovak |
| ○ Japanese | ○ German | | ○ Czech |

Professional experience

- 2015 **Software developer**, OM PARTNERS, Antwerp, Belgium,
Developing and maintaining an advanced enterprise planning application.
Key technologies: C++, QT, SQL, WINDOWS.
As a part of a 10 member team, using the *agile* methodology we maintain and develop a shared code base of over 6 million lines of code.



Awards and scholarships



Books that influenced me professionally

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

Formal education

2015
2011 **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
2008 **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
2008 **Erasmus exchange student**, MATHEMATICS AND ECONOMICS,
University of Pisa, Italy.

2008
2005 **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*.

