

Curriculum Vitae

YURY NIKULIN

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Education and Research:

- 2009 Docentship (habilitation) in Applied Mathematics and Optimization, University of Turku, Finland
- 2003 Ph.D. (Doctor rerum naturalium), Otto-von-Guericke University of Magdeburg, Germany ("Sensitivity analysis of vector discrete optimization problems")
- 2000 M.Sc. in Mathematics, Belarusian State University, Mechanics and Mathematics Faculty, Minsk, Belarus
- 2000 B.Sc. in Economics, Belarusian State University, Minsk, Belarus

Professional Experience:

- June 2016 - present, Senior University Lecturer (tenure), Department of Mathematics and Statistics, University of Turku, Finland
- September 2008 - May 2016, Senior Assistant, University Researcher, Docent, Department of Mathematics and Statistics, University of Turku, Finland
- May 2008 - August 2008 Research Associate, Department of Civil and Environmental Engineering, Imperial College London, group leader Michael Bell, London, United Kingdom
- June 2007- April 2008 Experienced Postdoctoral Researcher, Department of Mathematics and Computer Science, University of Southern Denmark, group leader Joergen Bang-Jensen, Odense, Denmark
- September 2004 - December 2006 Scientific Researcher, project "Planung der Bodenabfertigung an Flughäfen" (sponsored by German Science Foundation), group leader A. Drexler, Christian Albrecht University Kiel, Institute of Economics and Business Administration, Kiel, Germany

- September 2003 - February 2004 Postdoctoral Researcher (6 months), project Multicriteria Combinatorial Optimization problems: Stability Theory and Post-optimal Analysis", person in charge M. Libura, Polish Academy of Sciences, Systems Research Institute, Warsaw, Poland
- September 2001 - December 2002 Ph.D. student, Sensitivity analysis of vector discrete optimization problems, supervisor E. Girlich, University of Magdeburg, Mathematical Optimization Institute, Germany
- September 2000 - August 2001 Junior scientist, Fundamental Research Foundation of Belarus (grant F 97-266), group leader V. Emelichev, Belarusian State University, Mechanics and Mathematics Faculty, Minsk, Belarus

Teaching Experience:

Since 2019 I am lecturing at the Department of Mathematics and Statistics, University of Turku

- Multiobjective Optimization and Sensitivity Analysis

Spring'09

28 lectures+14 demos, 56 + 28 hours;

- Game Theory

Autumn'09, Spring'16, Spring'20, Spring'22, Spring 24

14 lectures + 7 demos, 28 + 14 hours;

- Combinatorial Optimization Algorithms

Autumn'10, Autumn'12, Autumn'22, Autumn'25

14 lectures+6 demos, 28 + 12 hours;

- Scheduling Theory

Spring'11, Spring'18, Spring'20

28 lectures+13 demos, 56 + 26 hours;

- Vector Optimization

Autumn'11, Spring'16, Spring'20, Spring'2023, Autumn'25

14 lectures +6 demos, 28 + 12 hours;

28 lectures+14 demos, 56 + 26 hours;

- Simulation

Autumn'12, Autumn'15, Autumn'17, Spring'19, Spring'22, Spring'25

14 lectures+6 demos, 28 + 12 hours;

- Operations Research

Autumn'13, Spring'21
14 lectures+6 demos, 28 + 12 hours;

- Decision Making

Spring'14, Spring'21
14 lectures+7 demos, 28 + 14 hours;

- Calculus of Variations

Spring'15, Autumn'18, Autumn'21, Autumn'23, Spring'26
14 lectures+7 demos, 28 + 14 hours;

- Control Theory

Spring'15, Autumn'18
14 lectures+7 demos, 28 + 14 hours;

- Partial Differential Equations

Spring'17, Autumn'19, Autumn'22, Autumn'24
28 lectures+13 demos, 56 + 26 hours;

- Phenomena and Models 2021-2025, (person in charge of math. branch)

2007 Guest Lecturer, University of Southern Denmark, IMADA, (Fall'07, 21 Lectures, 42 academic hours)

2006 Guest Lecturer, Christian-Albrechts University, Business Administration Institute, Kiel, Germany (Spring'06, Fall'06, 14 Lectures, 28 academic hours)

2004 Guest Lecturer, Polish Academy of Sciences, Systems Research Institute, Warsaw, Poland (Seminars for Ph.D. students)

2001 Teaching assistant, Belarusian State University, Minsk, Belarus (practical studies in Operations Research, Graph Theory, and Boolean Algebra)

Honours, Awards and Scholarships:

- 10.2025 University of Turku Foundation, Villa Tammekann accommodation grant, Turku-Tartu, Finland-Estonia
- 06.2025 Mathematics Fund Grant for organizing an invited research visit.
- 06.2023 Mathematics Fund Grant for organizing Turku Optimization mini-Symposium, Dec. 04, 2023
- 04.2022 Travel grant from Turku University Foundation, Combined workshop and research trip, May 2022 Bergen, Norway.

- 02.2020 Grant for visiting University of Nantes, France, Feb. 20.-28, 2020
- 02.2018 Grant for visiting University of Alicante, Spain, Apr. 1.-13, 2019
- 10.2017 Grant for visiting University of Milan, Italy, Oct. 24-27, 2017
- 02.2016 Grant for visiting University of Alicante, Spain, May 1.-11, 2017
- 02.2016 Grant for visiting University of Nantes, France, Nov. 14.-27, 2016
- 04.2014 University of Turku, Travel grants, Finland
- 11.2012 The Finnish Academy of Science and Letters Travel grant, Finland
- 10.2012 University of Turku Foundation, Villa Tammekann accommodation grant, Turku-Tartu, Finland-Estonia
- 05.2012 University of Turku, Personal Project grant, Finland
- 11.2011 University of Turku Travel grant, Finland
- 2013,.2015, 2017 Magnus Ehrnrooth Travel grants, Finland
- 01.2009 - 12.2009 The Finnish Academy of Science and Letters Scholarship and Travel grant, Vilho, Yrjö and Kalle Väisälä Foundation, Finland
- 09.2003 - 02.2004 NATO Young Scientist Fellowship grant, Polish Academy of Sciences, Systems Research Institute, Warsaw, Poland
- 01.2002 - 12.2002 Bundesland Saxon-Anhalt Grant for Ph.D. thesis promotion, 1 year, University of Magdeburg, Germany
- 09.2001 - 12.2001 DAAD scholarship, 4 months, Magdeburg, Germany
- 07.2000 BSc in Economics, Belarusian State University, Belarus
- 06.2000 Honour Diploma, MSc in Mathematics, Belarusian State University, Belarus
- 07.2000 Republican competition for the best student scientific work, Laureate, I Degree Honour Diploma, Ministry of Education, Belarus
- 03.1999 Republican competition for the best student scientific work, Laureate, II Degree Honour Diploma, Ministry of Education, Belarus
- 1996 - 1997 The Skorina Student, personal grant, Belarusian State University (awarded two best university students every year)
- 06.1995 Gold medal, school graduation, Minsk, Belarus

Research Interests:

- Mathematical Programming and Operations Research
- Combinatorial and Continuous Optimization
- Multiobjective Optimization and Multi-Criteria Decision Making
- Parameterization and Regularization
- Graph Theory, Game Theory, Discrete Mathematics
- Mixed Integer Programming
- Heuristics, Meta-heuristics and Evolutionary Optimization
- Scheduling Theory, Transport and Logistics, Routing and Planning
- Sensitivity Analysis, Stability Theory and Robustness

Talks, research and teaching visits (most recent):

- Networking event, University of Poitiers, June 2025, Poitiers, France
- Research visit, University of Leipzig, January 2025, Leipzig, Germany
- ICOCA, May 27-29, 2024, Alicante, Spain
- FORS50, September 23 - 24, 2023, Jyväskylä, Finland
- Desdeo Forum, June 19 - 20, 2023, Jyväskylä, Finland
- Research visit, University of Elce, Dec. 15 - 20, 2022, Spain
- TSL Workshop 2022, June 8 - 10, Bergen, Norway
- OPTIMA-2021 Conference, September 2021, Montenegro
- RuFiDiM VI, May, 18 - 23, 2021, Turku, Finland
- OPTIMA-2020 Conference, October 2020, Montenegro
- RuFiDiM V, May, 18 - 23, 2019, Veliky Novgorod, Russia
- Invited guest lecture, March 2019, Warsaw, Poland
- Invited guest lectures, December 2018, Jyväskylä, Finland
- HPC-UA18, October, 22 - 23, Kyiv, Ukraine
- Logistics Analytics 2018, June 18 - 19, Minsk, Belarus
- Int. Conference in Manag. Sci. and Dec. Making, May 2018, Taiwan

- 24th International Conference on MCDM, July 2017, Ottawa, Canada
- 2 Erasmus teacher exchanges, April 2019 and May 2017, Alicante, Spain
- Invited guest lectures, 2016, 2020 Nantes, France
- ISMP2015, July 2015, Pittsburgh, USA
- WebConf2015, May 2015, Minsk, Belarus
- Erasmus teacher exchange, November 2014, Magdeburg, Germany
- KOI 2014, September 2014, Osijek, Croatia
- FORS40 Workshop. August 2013, Lappeenranta, Finland
- Invited talk, 22nd Int. Conf. on MCDM, June 2013, Malaga, Spain
- Invited talk, May 2013, Saint-Petersburg State University, Russia
- Invited talk, November 2012, Tampere University of Tech., Finland
- Cooperation visit, October 2012, Academy of Sciences, Kyiv, Ukraine
- EURO'12, 25th , July 2012, Vilnius, Lithuania

Graduated doctoral researchers:

- Bishwesvar Pratap Singh, 2025, licentiate, supervision jointly with M.M. Mäkelä
- Alaleh Maskooki, 2023, supervision jointly with M.M. Mäkelä
- Outi Wilppu, 2020, supervision jointly with M.M. Mäkelä and N. Karmitsa
- Vladimir Korotkov, 2015, supervision jointly with V.A. Emelichev
- Volha Karelkina, 2012, supervision jointly with M.M. Mäkelä

Current doctoral researchers:

- Ville Rinne, defence expected 2026, supervision jointly with Prof. M.M. Mäkelä
- Alekski Kristian Winsten, supervision jointly with Prof. Jukka Lempa
- Muhamad Fikri, defence expected 2027, supervision jointly with Prof. Azwirman Gusrialdi. Faculty of Engineering and Natural Sciences, Automation Technology and Mechanical Engineering

Another professional activities:

- Participation in two big team research projects on autonomous maritime logistics and waste management of spent nuclear fuel (2018-2019)
- Dec. 2012, shortlisted and interviewed among four best candidates for tenure-track Professorship in Operations Research, Aalto University, School of Science, Finland
- more than 20 master's and 30 bachelor's students supervised
- session organizer, MCDM 2011, Jyväskylä, Finland
- participated in the organization of the EURO 2009 Conference in Bonn, Germany
- served as a referee for Chile Academy Research Grant Applications
- served as a referee for Romanian Academy Research Grant Applications

Languages:

- Native Belarusian
- Proficient in English
- Intermediate in Finnish
- Fluent Ukrainian
- Fluent Russian
- Sufficient in Polish
- Basic in German

Personal Data:

Date of birth: March 23, 1978 Place of birth: Minsk, Belarus
Citizenship: Finnish

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