

ALIAKSANDR NEKRASHEVICH

nekrald@hotmail.com | Telegram: @nekrald | [linkedin.com/in/nekrald](https://www.linkedin.com/in/nekrald) | nekrald.netlify.app



Passionate about improving manufacturing and business decisions using data science and optimization. Careful, persistent, patient, respectful, and competent. Ph.D. from Queen's University in the area of revenue management and pricing optimization. A genuine team player committed to group success and growth. Sincere and honest with a high level of personal and professional integrity

EDUCATION

Ph.D. in Management Analytics, Smith School of Business, Queen's University, Kingston, ON, Canada **2020 – 2025**

- Thesis "Three Essays in Resort and Sea Cargo Revenue Management" defended on June 20, 2025 [\[Link\]](#)
- Degree Requirements satisfied on June 30, 2025. Supervisors: Mikhail Nediak, Guang Li, Yuri Levin GPA 3.97 (out of 4.3)

M.Sc. in Statistical Learning Theory, Higher School of Economics (HSE), Moscow, Russia **2017 – 2019**

M.Sc. in Data Science, Skolkovo Institute of Science and Technology (Skoltech), Moscow, Russia HSE GPA 8.56 (out of 10.0)

- Degree is Verified by World Education Services [\[Link\]](#) Skoltech GPA 4.67 (out of 5.0)
- A joint Master's program taught together in HSE and Skoltech, advisors: Alexander Gasnikov, Vladimir Spokoyny
- Defended Thesis "Stochastic Modelling and Optimization in Freight Revenue Management" [\[Link\]](#)

Bachelor of Computer Science, Belarusian State University (BSU), Minsk, Belarus **2011 – 2017**

- Diploma with distinction, advisor: Vladimir Kotov GPA 9.2 (out of 10.0)

PUBLICATIONS

Alexandre Dolgui, Vladimir Kotov, Aliaksandr Nekrashevich, Alain Quilliot. **General parametric scheme for the online uniform scheduling problem with two different speeds**. Information Processing Letters, Elsevier, 2018, 134, pp.18-23 [\[Link\]](#)

WORKING PAPERS

Aliaksandr Nekrashevich, Mikhail Kovalyov, Genrikh Levin, Yuri Levin, Guang Li, Mikhail Nediak. **Scalable Stochastic Model for Sea Cargo Revenue Management with Empty Container Transportation**. [Under Review in Transportation Research Part E]

- Implemented a Sea Freight Revenue Management System prototype. The algorithm is scalable, accounts for uncertainty, makes profits from empty container transportation, and covers multiple business lines
- Presented at the Canadian Operations Research Conference (CORS 2024, June 3-5, London, ON, Canada) [\[Link\]](#)
- Presented at the INFORMS Computing Society Conference (ICS 2025, March 14-16, Toronto, ON, Canada) [\[Link\]](#)

Aliaksandr Nekrashevich, Yuri Levin, Guang Li, Mikhail Nediak. **Randomized Linear Programming for Resort Revenue Management with Ancillary Values and Free Upgrades**. [Rejected by POM after 2nd submit, now targeting EJOR]

- Theoretic and computational study of how a family of randomized linear programming approaches is applied in resort revenue management, with scalable experiments launched on the Frontenac Cluster for clear confidence interval separation

WORK IN PROGRESS

Aliaksandr Nekrashevich, Yuri Levin, Guang Li, Mikhail Nediak. **A Data-Driven Approach for Dynamic Resort Resource Allocation with Auxiliary Values and Free Upgrades**. [Work in progress]

- Implemented a Revenue Management System prototype for a private golf hotel resort with an approximately 5% lift in revenue
- Presented at the Canadian Operations Research Conference (CORS 2022, June 5-8, Vancouver, BC, Canada) [\[Link\]](#)
- Presented at Canadian Conference on Electrical and Computer Engineering (CCECE 2024, August 6-9, Kingston, ON, Canada) [\[Link to proceedings\]](#)

RESEARCH INTERESTS

Dynamic Pricing, Subgradient Optimization, Randomized Linear Programming, Discrete Optimization, Approximation Algorithms

RESEARCH EXPERIENCE

Postdoctoral Researcher, IMT Atlantique, Nantes, Loire-Atlantique, Pays de la Loire, France **2025 – now**

- Postdoctoral position at Automation, Production and Computer Sciences department (DAPI) related to modeling marketplace operations
- Research related to joint pricing and scheduling at a manufacturing-as-a-service marketplace level

Research Assistant, Scotiabank Centre for Customer Analytics, Kingston, ON, Canada **2022 – 2023**

- Research Internship at **Scotiabank Marketing Group** related to a D2D Acquisition marketing campaign
- Applied recency-frequency modeling to investigate marketing attribution and conversion impact
- Received personal **Dean Travel Grant for Field Research**

Research Assistant, Scotiabank Centre for Customer Analytics, Toronto, ON, Canada **2018**

- Research position at **Scotiabank Data Science and Analytics Lab** targeting funds transfer pricing improvements
- Used time series clustering to study client transaction behavior over deposit accounts
- Received **Mitacs Globalink Research Internship**

INDUSTRIAL EXPERIENCE

Junior Software Engineer, Yandex BY LLC, Minsk, Belarus **2016 – 2017**

- Focused on improving the core engine for speech recognition at the **Yandex Speech Kit** department
- Trained deep recurrent neural models and helped with moving the model learning process to the cloud platform Nirvana

Software Developer Intern, Yandex LLC, Moscow, Russia **2013**

- Experimented with the service Yandex Music at the **Recommender Systems** department
- Implemented latent factor models with implicit alternating least squares optimization

Self-Employment, UNP 192519340, Minsk, Belarus **2015 – 2020**

- Individual entrepreneurship of small scale in the area of IT, machine learning, revenue management, and pricing optimization

SPECIALIZED TRAINING

Yandex School of Data Analysis (YSDA), Computer Science, Minsk, Belarus **2012 – 2014**

- Master's-level independent program in Computer Science and Data Analysis provided by the Russian search engine Yandex

PROJECTS

Study with Fitness Tracker **2023**

- A data-science study of personal sleep experience based on the data collected from the Fitbit fitness tracker using semi-advanced Time Series forecasting [[Link to Repository](#)]

Client Behavior on Car Credit Payments at a Bank in Eastern Europe **2021**

- Addresses the problem of issuing a credit loan to purchase a car. The goal is to understand clients' behavior and repayment policies based on individual features [[Link To Repository](#)]

Capsule Networks for Car Sign Recognition **2021**

- Implemented and applied well-known Capsule Networks for the standard car sign recognition problem [[Link To Repository](#)]

ESICUP Challenge 2015 [[Link to Data](#)] **2014 – 2015**

- International project contest about the best packing for a **real-life logistic problem from the car manufacturer RENAULT**
- Team passed qualification with 4th place [[Link To Qualifier Repository](#)]. Final Results: Instances A – 5th place, Instances B – 6th place, Instances X - 5th place [[Link To Final Repository](#)]
- Published in conference proceedings: Aliaksei Kolesau, Pavel Irzhauski, Aliaksandr Nekrashevich, Henadzi Klimuk, Vladimir Kotov. **Genetic approach to ESICUP Renault Container Loading Challenge 2015**. 12th ESICUP Meeting Booklet, 2015, pp. 24-25

TEACHING EXPERIENCE

Smith School of Business, Kingston, ON, Canada

- **Teaching Assistant**, MMA-867 (Predictive Modeling). Student Hours, Assignment Verifications **2023**
- **Teaching Assistant**, MMAI-830 (Pricing Analytics). Student Hours, Assignment Verifications **2020**
- **Technical Assistant**, MMAI-847 (Capstone Projects). Technical Consultations **2020**
- **Teaching Assistant**, MMA-867 (Predictive Modeling). Student Hours, Assignment Verifications **2020**

Yandex School of Data Analysis, Minsk, Belarus

- **Teaching Assistant**, Machine Learning. Seminars for Belarusian branch of Yandex Data Analysis School **2017**

Life Telecommunications (3rd largest Belarusian mobile operator), Minsk, Belarus

- **Technical Instructor**, Machine Learning. Professional education for the business analytics department **2016**

41st Gymnasium, Minsk, Belarus

- **Teaching Instructor**, Advanced Mathematics. Transferred experience to further generations **2011**

PROGRAMMING SKILLS

- **Programming Languages:** Python (professional), R (basic), C++ (professional), Java (basic), Bash (intermediate)
- **Frameworks:** pytorch, tensorflow, sklearn, pyspark, numpy, scipy, matplotlib, django, pandas, plotly, seaborn

AWARDS AND RECOGNITION

Smith School of Business, Kingston, ON, Canada

- Monieson Centre Scholarship 2021
- International Tuition Award 2021
- Smith School of Business Award 2021-2024
- Queens Graduate Award 2023-2024
- Graduate Research Fellowship, Yuri Levin and Guang Li 2021-2023

ACADEMIC SERVICES

- Session Chair, Pricing and Revenue Management - INFORMS Computing Society Conference 2025 2025
- Treasurer - CORS Student Chapter in Kingston 2024-2025

CONTESTS AND OLYMPIADS

Google Hashcode Team Programming Contest 2017 – 2018

- Hashcode Finals – 30th place in 2017 (Paris, France) [\[Link\]](#), 34th place in 2018 (Dublin, Ireland) [\[Link\]](#)
- Hashcode Elimination – 13th place in 2017, 35th place in 2018

ACM-ICPC Collegiate Sports Programming 2012 – 2015

- ACM-ICPC World Finals – 14th place in 2014 (Marrakech, Morocco) [\[Link\]](#), 21st place in 2015 (Ekaterinburg, Russia) [\[Link\]](#)
- ACM-ICPC Northeastern European Regional Contest – 24th place in 2012 [\[Link\]](#), 23rd place in 2013 [\[Link\]](#), 14th place in 2014 [\[Link\]](#)
- ACM-ICPC Western Subregional Contest 2015 (Minsk, Belarus) - Problem Setter. Designed some of the contest problems

IMC Individual International Competition in Mathematics for University Students 2014 – 2015

- 2nd Diploma in 2015 (Blagoevgrad, Bulgaria) [\[Link\]](#), 3rd Diploma in 2014 (Blagoevgrad, Bulgaria) [\[Link\]](#)

International Team Tournament of Young Mathematicians 2010 – 2012

- 3rd Diploma in 2010 (Orsay, France) [\[Link\]](#), 1st place in 2011 (Minsk, Belarus) [\[Link\]](#)
- Belarusian team coach in 2012 (Orsay, France) [\[Link\]](#)

Belarusian Individual National Olympiad in Mathematics 2010 – 2012

- 2nd diploma in 2011, 8th place at IMO Selection 2011

Team Research Project "Combinatorial Analogue of a Tomography Problem" 2010 – 2011

- European Union Contest for Young Scientists (EUCYS 2010, Lisbon, Portugal). Poster presentation
- Intel International Scientific-Engineering Fair (Intel ISEF 2011, Los Angeles, USA). Poster presentation
- Baltic Scientific-Engineering Fair (BaltSEF 2011, St. Petersburg, Russia). Poster presentation
- 5th Festival of Sciences (Moscow, 2010). Poster presentation
- Belarusian National Conference (Minsk, 2010). Conference talk

EXTRACURRICULAR EXPERIENCE

Ultimate Frisbee Section, Manager, Belarusian State University, Minsk, Belarus 2011 – 2013

- Provided an opportunity for semi-professional players at Minsk Ultimate Frisbee clubs (Spinin, X3, Rukhavik) to count sports experience for physical education classes
- Organized discounted gym rentals for cross-club ultimate training in 41st and 75th Minsk gymnasiums
- Played and trained in parallel at the Spinin ultimate frisbee club, participated in Eastern European tournaments

REFEREES

- Mikhail Nediak, mikhail.nediak@queensu.ca (scientific supervisor at Smith School of Business)
- Guang Li, guang.li@queensu.ca (co-advisor at Smith School of Business)
- Yuri Levin, yuri.levin@queensu.ca (co-advisor at Smith School of Business)

ADDITIONAL INFORMATION

- **Professional Societies:** CORS (Jul 2024 - Mar 2025), INFORMS (Jul 2024 - current), POMS (Jul 2024 – Dec 2024), ROADEF (Oct 2025 – current), EURO (Aug 2025 – current)
 - **Profiles:** [ORCID](#) 0009-0009-3364-6805, [WOS](#) MFK-3101-2025, [Google Scholar](#) PzrqbSIAAAAJ, [Scopus ID](#) 57200496094
 - **Networks:** [Academia.edu](#) AliaksandrNekrashevich, [Research Gate](#) Aliaksandr-Nekrashevich
 - **Repositories:** [Github](#) @smith-nekrald, [GitLab](#) @smith-nekrald, [Github](#) @nekrald, [GitLab](#) @nekrald
 - **Languages:** English (professional), French (beginner), Polish (beginner), Russian (native), Belarusian (native)
 - **Sports/Hobbies:** Photography, Volleyball, Pickleball, Fishing
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