

EDUCATION

- 10.2021–
today **PhD student**, *Faculty of Mathematics, Otto von Guericke University Magdeburg, Germany.*
Supervisor: Prof. Dr. Volker Kaibel
- 10.2019–
09.2021 **M.Sc. in Mathematics**, *Faculty of Mathematics, Otto von Guericke University Magdeburg, Germany.*
Specialization: Computational Mathematics
Supervisor: Prof. Dr. Volker Kaibel
Thesis title: “Polygon Extensions with Small Diameter”
 - DAAD scholarship
 - Best Graduate Student Award 2022
- 08.2020–
10.2020 **Internship**, *Otto-von-Guericke-Universität Magdeburg, Germany.*
Work on research project “Optimization and Vehicular Traffic Light Intersections” with Volkswagen AG.
- 09.2015–
06.2019 **B.Sc. in Applied Mathematics and Computer Science**, *Faculty of Applied Mathematics and Computer Science, Belarusian State University, Minsk, Belarus.*
Specialization: Discrete Mathematics and Algorithmics
Supervisor: Ph.D. Yury Orlovich
Thesis title: “Spanning Trees with Special Properties: Algorithmic and Structural Aspects”
 - University entrance exam score: 390/400
 - Graduated with distinction
- 10.2018–
03.2019 **“Erasmus+” Exchange semester**, *University of Stuttgart, Germany.*
- 2018–
2016 **Research Internships**, *Otto-von-Guericke-Universität Magdeburg, Germany.*
Three summer internships in the research group of Prof. Dr. Volker Kaibel for one or two months each.

SELECTED PUBLICATIONS AND CONFERENCE TALKS

- 11.2023 Kukharenko K., and Sanità L. 2021. *Scale-free Spanning Trees and their Application in Genomic Epidemiology*. Submitted to: Interger Programming and Combinatorial Optimisation (IPCO) 2024.
- 07.2023 Kaibel V. and Kukharenko K. 2021. *Polytope Extensions with Linear Diameters*. Submitted to: SIAM Journal on Discrete Mathematics.
- 10.2021 Orlovich Y., Kukharenko K., Kaibel V., Skums P. 2021. *Scale-free Spanning Trees and their Application in Genomic Epidemiology*. Journal of Computational Biology, Vol.28, No.10:945-960.
- 09.2022 The 25th Workshop on Future Research in Combinatorial Optimization, (FRICO 2022). Bonn, Germany. **Best Talk Award.**

TEACHING EXPERIENCE

- 14.10.2019–
today **Teaching Assistant**, *Fakultät für Mathematik, Otto-von-Guericke-Universität Magdeburg.*
Tutor for Advanced Methods of Discrete Optimization, Combinatorial Optimization, Introduction to Mathematical Optimization, Mathematical Methods I und II, Mathematical Economics.