

OLGA KUZNETSOVA

www.okuznetsova.com

EDUCATION

- 08.2019 – 07.2023 **Aalto University School of Science, Helsinki, Finland**
PhD Candidate in Mathematics and Statistics
- Topic: Non-parametric Algebraic Statistics
 - Advisor: Prof. Kaie Kubjas
 - Theoretical studies completed
 - Teaching: Calculus I&II, Algebraic Statistics (Master's)
- 08.2017 – 06.2019 **Aalto University School of Science, Helsinki, Finland**
MSc in Mathematics and Operations Research
- 01-08.2017 Pre-degree coursework in mathematical methods, abstract algebra, analysis and topology
 - GPA: 4.8/5.0,
 - Thesis "Private Information Retrieval: Combinatorics of the Star-Product Scheme" – grade 5.0/5.0. Supervisor – Prof. Camilla Hollanti, advisor – Dr. Ragnar Freij-Hollanti
- 10.2015 – 12.2016 **London Business School, London, UK**
Graduate Coursework in Management Science and Operations
- Coursework: stochastic modelling, optimisation, econometrics, microeconomics
 - Full scholarship
- 03.2009 – 07.2011 **Aalto University School of Business, Helsinki, Finland**
MSc in Information and Service Management
- Thesis "Tax Return Filing Online – Case Finnish Tax Administration" – grade 4.0/5.0. Supervisor – Dr. Esko Penttinen, Research Manager, Aalto University Service Factory
 - GPA 4.0/5.0
- 08.2010 - 07.2011 **Aalto University School of Business, Helsinki, Finland and University of Cologne, Cologne, Germany**
CEMS Masters in International Management
- Business project "IT Sourcing and Organization Study" in co-operation with Accenture GmbH. Supervisor – Professor Thorsten Semrau, University of Cologne
 - Outstanding Achievement Award from University of Cologne, given to the top 10% of the total exchange student population
 - GPA 4.5/5
- 09.2007 - 05.2010 **Aalto University School of Business, Helsinki, Finland**
BSc in Business Technology
- Thesis "E-government: E-Government development models evolution" – grade 5.0/5.0
 - GPA 3.8/5.0
 - Winner of student assistant grant 2009-2010 from the Department of Business Technology worth 1000 EUR
- 09.2005 - 06.2007 **Kyiv National Economic University, Kyiv, Ukraine**
Business Studies

PUBLICATIONS

1. **Exact Solutions in Log-Concave Maximum Likelihood Estimation.** With Alexandros Grosdos, Alexander Heaton, Kaie Kubjas, Georgy Scholten, Miruna-Stefana Sorea [arXiv:2003.04840](https://arxiv.org/abs/2003.04840)
2. **Information Hiding Using Matroid Theory.** With Ragnar Freij-Hollanti [arXiv:2009.02991](https://arxiv.org/abs/2009.02991)

ACADEMIC CONFERENCES

INVITED TALKS

- 2021 SIAM Conference on Applied Algebraic Geometry 2021. Minisymposium “Algebraic Geometry of Data” (Texas, US – August 2021)
- 2020 28th Nordic Congress of Mathematicians. Session “Applied Algebra” (Helsinki, Finland – August 2020 *postponed due to COVID19*)

CONTRIBUTED TALKS

- 2020 Workshop “Geometry of curves in time series and shape analysis” (online, organized by Max Planck Institute for Mathematics in the Sciences, Leipzig, August 2020). Poster
- 2019 Summer School on Geometric and Algebraic Combinatorics (Paris, France, June 2019). Poster
- 2018 Number theory and coding theory: Contemporary applications in security (Turku, Finland – May 2018). Talk
ECCO 2018: The Colombian Meeting on Combinatorics (Barranquilla, Colombia – June, 2018). Talk
Summer School on Numerical Computing in Algebraic Geometry (Leipzig, Germany – August, 2018). Poster
Summer School in Algebraic Statistics (Tromso, Norway – September 2018). Talk

ATTENDANCE

- 2020 Macaulay2 Workshop (online, May, 2020)
- 2019 SIAM Conference on Applied Algebraic Geometry 2019 (Bern, Switzerland) – Received SIAM Student Travel Award
- 2018 Munich Workshop on Coding and Cryptography 2018 (Munich, Germany - April 2018)
ASGARD Math 2018: Real Algebraic Geometry and Tropical Mathematics (Oslo, Norway - May, 2018)
Nordfjordeid Summer School 2018: Combinatorics and Hodge Theory (Nordfjordeid, Norway – June, 2018)
Young Topologists Meeting 2018 (Copenhagen, Denmark – July, 2018)
Connections for Women Workshop: Geometric and Topological Combinatorics (Mathematical Sciences Research Institute, Berkeley, CA)
- 2017
- 2016 Trans-Atlantic Doctoral Conference (London Business School)

SERVICE

Member of the Standing Committee of the European Women in Mathematics

- Website (manage a team of 4 volunteers and relations with developers)
- Fundraising

IT SKILLS

Git, Macaulay2, Mathematica, MATLAB, Maple, R, Stata

WORK EXPERIENCE

06.2017 - 08.2017	AALTO UNIVERSITY SCHOOL OF SCIENCE Research Assistant	Finland/UK
01.2014 – 09.2015	SELF-EMPLOYED Entrepreneur/ Management Consultant	Finland/UK/Ukraine
10.2011 – 01.2014	MCKINSEY & CO Management Consultant	Finland
09.2009 – 08.2010	FINNISH TAX ADMINISTRATION Researcher	Finland
06.2008 – 12.2008	SYNOCUS OY Project Assistant	Finland

LANGUAGES

Russian (native), English (fluent), Finnish (fluent), Spanish (upper-intermediate)