
Education

- 09/2020–09/2021 **MSc in Data Science**, *London School of Economics*.
Relevant Courses:
 - Machine Learning and Data Mining
 - Artificial Intelligence and Deep Learning
 - Distributed Computing for Big Data
 - Data Analysis and Statistical Methods
 - Bayesian Machine Learning
 - Managing and Visualizing Data
- 06/2018 **PhD in Pure Mathematics**, *Leibniz University Hannover*.
Thesis Title: *Equivariant Indices of Vector Fields and 1-Forms on Varieties*
Supervisor: *Prof. Dr. Wolfgang Ebeling*
Grade: *magna cum laude*
- 06/2012 **Specialist in Mathematics**, *Lomonosov Moscow State University*.
Diploma with Honours, GPA: *4.8/5.0*

Work Experience

- since 12/2020 **Capstone Project**, *Capgemini and London School of Economics*.
 - Revealing genes linked to tumor cells using different combinatorial optimization techniques
- 10/2018–06/2020 **Assistant Actuarial Developer**, *Hannover Re*.
 - Developed and maintained actuarial modelling systems
 - Integrated new accounting requirements (IFRS 17) into existing risk models
- 08/2016–09/2018 **Research Associate**, *Institute of Algebraic Geometry, Leibniz University Hannover*.
 - Conducted research in Singularity Theory and Algebraic Geometry
 - Presented results at research seminars and international conferences
 - Taught and prepared problem sessions for courses "Algebraic Geometry" and "Mathematics for Engineers II"
- 10/2015–07/2016 **Visiting Scholar with a Research Grant from the German Academic Exchange Service (DAAD)**, *Institute of Algebraic Geometry, Leibniz University Hannover*.
 - Conducted research in Algebraic Geometry
- 10/2012–07/2015 **Junior Research Fellow**, *Department of Mechanics and Mathematics, Lomonosov Moscow State University*.
 - Conducted research in Differential Topology

Publications

- [1] F. I. Mamedova. Simplest singular points of 1-forms invariant with respect to an action of group of order three. *Moscow University Mathematics Bulletin*, 73(5):199–202, 2018.

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- [2] F. I. Mamedova. *Equivariant indices of vector fields and 1-forms on varieties*. PhD thesis, Hannover: Institutionelles Repositorium der Leibniz Universität Hannover, 2018.
- [3] S. M. Gusein-Zade and F. I. Mamedova. On equivariant indices of 1-forms on varieties. *Functional Analysis and Its Applications*, 51(3):177–184, 2017.

Technical Skills

Python	Main language, experience with Pyspark, Scipy, Numpy, Tensorflow
C/C++	Professional experience and 4 years of practice during the undergraduate studies
R	Professional experience
Mathematical	Undergraduate classes taken include: <ul style="list-style-type: none"> ○ Statistics, ○ Stochastics, ○ Probability, ○ Numerical Methods, ○ Optimal Control
SQL	Basic experience
MS Office	Improved models of reinsurance treaties in Excel

Languages

English	fluent
German	fluent
Russian	native