



STEFAN MALBAŠIĆ

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CAREER OBJECTIVE

Mathematician and data enthusiast with a strong foundation in Probability Theory, Financial Mathematics, Macroeconomics, and Risk Theory. Skilled in advanced data analysis, programming, and machine learning, with expertise in R and Python, statistical modeling, and database management. Experienced in implementing cutting-edge techniques, including deep learning and AI-driven models, to solve complex problems and optimize decision-making. Passionate about leveraging data-driven insights to deliver innovative solutions.

EDUCATION

Faculty of Mathematics – University of Belgrade <i>PhD student • Probability and Statistics • GPA: 10.00/10.00</i>	2023 – present
Faculty of Mathematics – University of Belgrade <i>Master • Statistics, Actuarial and Financial Mathematics • GPA: 10.00/10.00</i> <i>Final thesis: "Credit Risk Management in the Banking Sector of the Republic of Serbia Using Statistical Learning Methods", http://elibrary.matf.bg.ac.rs/bitstream/handle/123456789/5669/v1_masterStefanMalbasic.pdf</i>	2022 – 2023
Faculty of Mathematics – University of Belgrade <i>Bachelor • Statistics, Actuarial and Financial Mathematics • GPA: 9.53/10.00</i>	2018 – 2022
High school "Pale" – East Sarajevo, Bosnia and Herzegovina <i>„Vuk Karadžić” Award • Award for the Best Student of Generation • GPA: 5.00/5.00</i>	2014 – 2018
Primary school "Pale" – East Sarajevo, Bosnia and Herzegovina <i>„Vuk Karadžić” Award • Award for the Best Student of Generation • GPA: 5.00/5.00</i>	2005 – 2014

WORK EXPERIENCE

Teaching Assistant – Department of Probability and Statistics, Faculty of Mathematics • Courses: Probability Theory, Time Series and Applications in Finance, Probability and Statistics A & B, Elements of Actuarial Mathematics, Statistical Software 1 & 3, Introduction to Sampling Theory.	2023 – Present
Co-Founder, Data Scientist and Financial Analyst – FinAsk • I played a key role in developing an AI-driven platform that revolutionizes corporate data discovery and analysis. Leveraging my expertise in financial mathematics, machine learning, and statistical modeling, I ensured the platform delivered accurate, actionable insights for decision-making. I collaborated on integrating advanced AI technologies, including Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG), while engaging with regional finance leaders to refine the platform for corporate development teams, consulting firms, and investors. My contributions focused on enhancing data accuracy, risk analysis, and user-driven insights, enabling businesses to make informed, data-driven decisions.	2025 – Present
Teaching Associate – Faculty of Mathematics, University of Belgrade	2022 – 2023

OTHER ACADEMIC ACTIVITIES

Student Ambassador of the Circle U. and CUSU – Circle U. Student Union (CUSU)	2022 – 2025
Student Vice Dean – Faculty of Mathematics, University of Belgrade	2022 – 2024
Vice President of Students’ Affairs – Students’ Parliament, University of Belgrade	2022 - 2024
Member of the Senate of the University of Belgrade and Quality Assurance Committee	2022 - 2024
SKONUS Assembly Delegate – Students Conference of Serbian Universities (SKONUS)	2022 - 2023
Co-Founder, Supervisory Board Member and Public Relations Team Lead – Student Union of Mathematicians - SUM, Faculty of Mathematics, University of Belgrade	2020 - 2023

CONFERENCES

XV Serbian Mathematical Congress – S. Malbašić, Z. Vidović, Objective analysis for generalized exponential distribution based on records with applications, M34, presenting author June 19-22, 2024, Belgrade, Serbia
https://www.smak15.matf.bg.ac.rs/download/SMAK_2024.pdf, page 108

BankFinIng - Risk and Capital Management in Banks – S. Malbašić, Credit Risk Management in the Banking Sector of the Republic of Serbia Using Statistical Learning Methods, Association of Serbian Banks, presenting author May 23-24, 2024, Zlatibor, Serbia
<https://www.ubs-asb.com/files/BankFinIng%202024%202005.pdf>, page 2

Climate Change and Student Entrepreneurship: From Academia to Policy – S. Malbašić, European University Alliances and region – opportunities and challenges, Circle U. National Conference, CUSU ambassador at Workshops May 15-16, 2023, Belgrade, Serbia
<https://climate-change.rect.bg.ac.rs/program.php>

PROJECTS

Innovation Workshop 2025 – Skolkovo Institute of Science and Technology (Skoltech), Moscow Sept 2025

- Developed a prototype software platform for intuitive control of upper-limb prosthetics by processing electromyographic (EMG) signals through Spiking Neural Networks (SNNs) on neuromorphic hardware. Contributed to signal preprocessing, feature extraction, model training, and validation, as well as integration with a robotic hand. Project included implementation of classification pipelines, design of inference logic for low-latency on-device use, and preparation of datasets from experimental EMG recordings.
- Awarded **1st Place Winner** at the Innovation Workshop 2025, cited for outstanding innovation, technical rigor, and clear translational potential

Actuarial Science Special Course – MILENIJUM OSIGURANJE Insurance Company Jan 2024 – July 2024

- Developed and delivered a professional R programming course, creating a structured curriculum that integrated foundational R skills with advanced applications in Data Analysis and Actuarial Science. The program included comprehensive training on the Chain Ladder method for actuarial reserving, where I led participants through Data Preparation, Implementation, and Visualization using specialized R packages.

Zero Knowledge Proofs – Academy of Mathematics Oct 2023 – Dec 2023

- Completed an advanced Zero Knowledge Proofs (ZKP) course, mastering foundational and applied cryptography concepts, including ZKP SNARKs/STARKs, elliptic curves, pairings, PLONK, and CIRCOM. As part of the course, I authored a final project titled "Exploring Elliptic Curve Pairings", which deepened my understanding of their role in modern cryptographic protocols and privacy-preserving systems.

EXTRACURRICULAR ACTIVITIES

MATF Hackathon – Student Union of Mathematicians, Member of the Organizing Committee 2021 – 2023

Students' conference "Modern Mathematics and Applications - AfterMath" – Student Union of Mathematicians, Member of the Organizing Committee 2021 – 2023

Job and Internship Fair "Math & Co." – Student Union of Mathematicians, Project Coordinator 2021 – 2023

"High School Algorithm" Competition – Student Union of Mathematicians, Member of the Competition Committee 2022 – 2023

Student Mentor Program – Faculty of Mathematics, Project Coordinator 2021 – 2023

CHOSEN AWARDS

Dositeja Scholarships of Foundation for Young Talents – Ministry of Science, Technological Development, and Innovation of the Republic of Serbia 2021/22, 2022/23

Awards for the Best Master's Students of the Faculty of Mathematics 2022/23

Certificate of Recognition for the Outstanding Contribution in Student Leadership Programs and Organisations at Faculty of Mathematics 2022/23

SKILLS SUMMARY

- Programming languages: R, Python, C, Java, Matlab
- Other computer experience: MS Office Suite (emphasis on Excel), Rmarkdown, L^AT_EX
- General Business Skills: Project Management, Problem Solving, Communication Skills, Analytical Thinking
- Languages: Serbian (Native), English (Proficiency C1.2)