

Ervin Macić

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EDUCATION

University of Oxford

Candidate for Master of Science in Mathematics and Computer Science

• Relevant Coursework: Probability | Functional Programming in Haskell | Linear Algebra

Oct. 2024 – June 2028

Oxford, United Kingdom

University of Sarajevo

Candidate for Bachelor of Engineering in Computer Science

GPA: 9.8/10 – Top of class

• Relevant Coursework: Probability and Statistics | Multi-variable Calculus | Linear Algebra | Advanced Programming in C++ | Mathematical Logic and Computability Theory

Oct. 2023 – July 2024

Sarajevo, Bosnia and Herzegovina

SKILLS

- Programming: Python, C++, C, Haskell, JavaScript, Django, Git, LaTeX
- Languages: Bosnian (Native) | English (TOEFL 115) | German (B1+)

PROJECTS AND EXPERIENCES

Isaac code

Junior Machine Learning and IoT Engineer

[Link to landing page](#)

- Working on a smart cattle monitoring system “Cow Gazer” making extensive agriculture more efficient and increasing animal welfare, co-funded by the EU through the EU4AGRI grant
- Implemented object detection and classification to identify cattle with RFID cross-verification
- Implemented forecasting algorithms on weight data and notified farmers of unusual behaviour and notable trends
- Configured weight scales, cameras, Raspberry Pi devices with Coral AI accelerators

Feb. 2020 – Present

Glamoč, Bosnia and Herzegovina

ARTI Analytics

Research Associate

[Link to website](#)

- Implemented various experiments in PyTorch and TensorFlow
- Developed extension to the TensorFlow NN module that allows the user to create unique neural network structures while maintaining reasonable training convergence with a comprehensive analysis of performance and architecture visualisations
- Sped up model training with minor losses in accuracy using decomposition algorithms

Sept. 2023 – Present

Sarajevo, Bosnia and Herzegovina

Bosnian-Herzegovinian Math Olympiad Society

Lecturer; Organiser; Proposer

- Lectured and organised mock exams at the IMO preparation camp
- Proposed and graded three out of the six problems for the 29th Bosnian-Herzegovinian Olympiad in Mathematics 2024 (IMO Team Selection Test)
- Leader of the IMO team at the International Math Summer Camp 2024 held in Beijing, China

Jan. 2022 – Present

Sarajevo, Bosnia and Herzegovina

Maths Beyond Limits Balkans

Lecturer and organiser

- As a part of the organising committee of the first international mathematics camp in the Balkan region, reviewed and evaluated students’ applications and worked on the camp brochure - [Link to brochure](#)
- Prepared and presented a three-day interactive lecture with a co-lecturer about applications of mathematical expectations to an audience of 20 students from various countries – [Link to lecture](#)

2021 – 2023

Konjic, Bosnia and Herzegovina

SELECTED AWARDS AND HONOURS

Bronze medal, International Mathematical Olympiad 2023

Bronze medal, International Mathematical Olympiad 2021

Silver medal, Balkan Mathematical Olympiad 2021

Second prize, Non-Trivial Fellowship 2023 – [Link to project pitch paper](#)

Open Philanthropy Undergraduate Scholarship

BIG Scholar, Global Talent Fund

Chiba, Japan

St Petersburg, Russia (Online)

Cyprus (Online)

Online