HCAI @ ETF @ UNSA

Vahidin Hasić
Teaching assistant and PhD student
Human-Centered Artificial Intelligence
Faculty of Electrical Engineering
University of Sarajevo

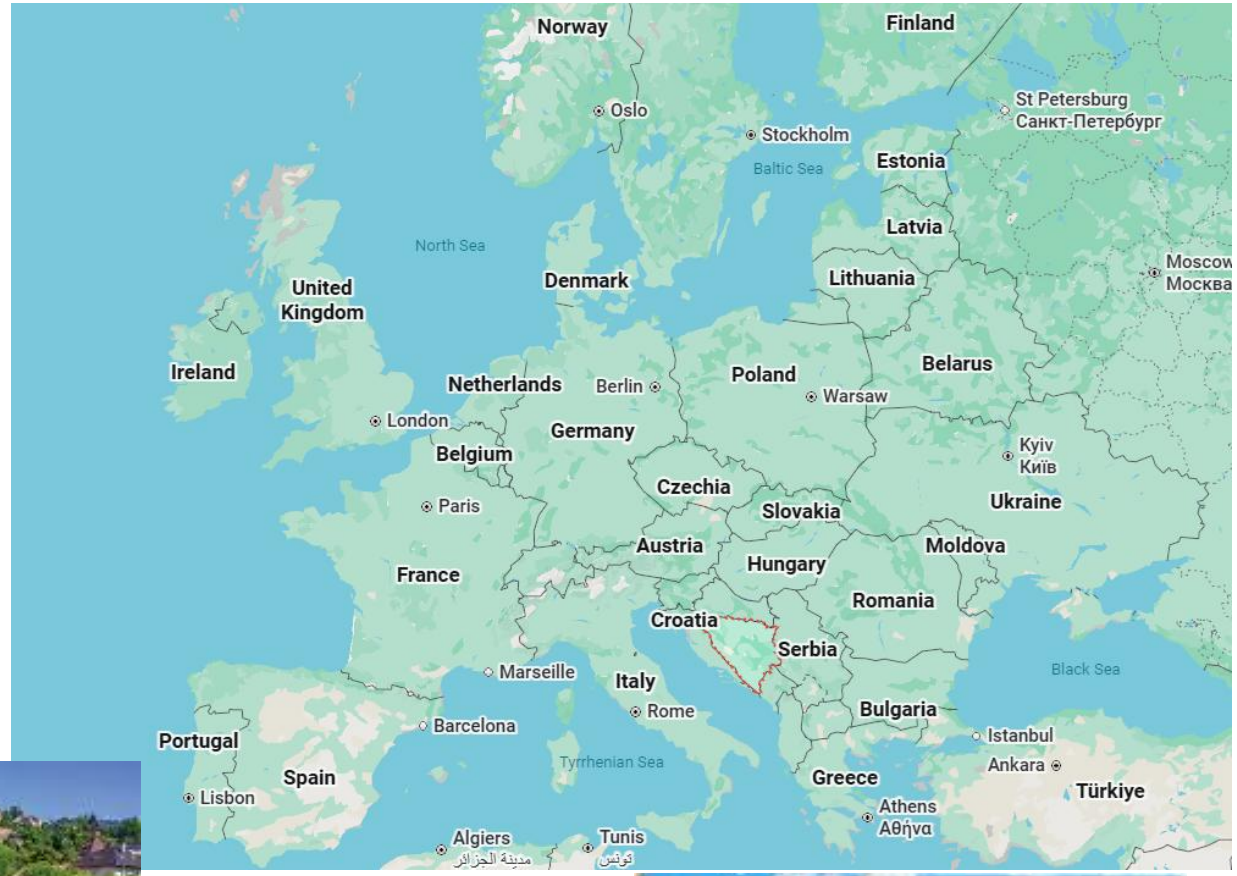


Bosnia and Herzegovina













Sarajevo, 🚋 First Tram

- The first tram officially started operating on **January 1st, 1885**
- It was 3.1 kilometers long
- Sarajevo's first electric tram began service on **May 1, 1895**, replacing horse-drawn trams







Sarajevo, ❄ 1984 Winter Olympics

- **XIV Olympic Winter Games** in Sarajevo, held from **February 8-19, 1984**
- The popular mascot was a friendly wolf named **Vučko**
- The games featured **39 events across 6 sports** (10 disciplines): Alpine Skiing, Biathlon, Figure Skating, Ice Hockey, Ski Jumping,...







Sarajevo, B&H

National Geographic: Sarajevo is the best world destination for 2025 according to the choice of our readers

"It's official: Sarajevo is our reader's choice winner for 2025," they wrote on the Instagram page of National Geographic Travel.














Siege of Sarajevo

- Lasting from 5 April 1992 to 29 February 1996 (**1,425 days**), it was three times longer than the Battle of Stalingrad and more than a year longer than the siege of Leningrad, making it the **longest siege of a capital city in the history of modern warfare**
- **13,952 people were killed during the siege**, including 5,434 civilian; 1,601 children; 56,000 injured; including 15,000 children; 55,000–145,980 expelled





























University of Sarajevo

- 22 Faculties, 3 Academies and 5 Institutes with the status of full members, internally organized within 6 Science/Arts Groups

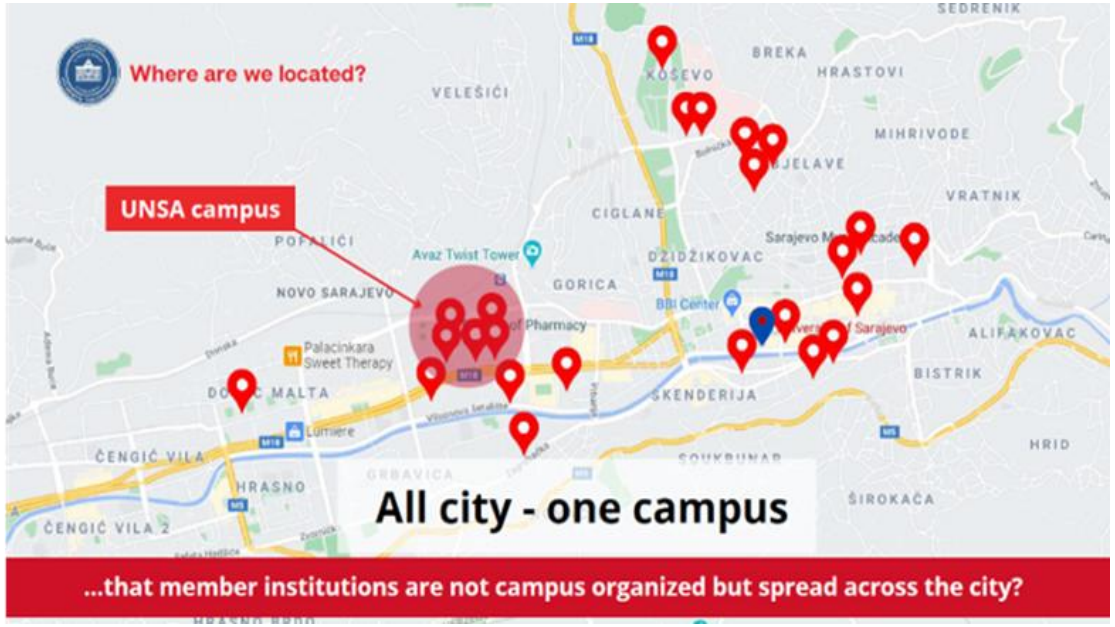




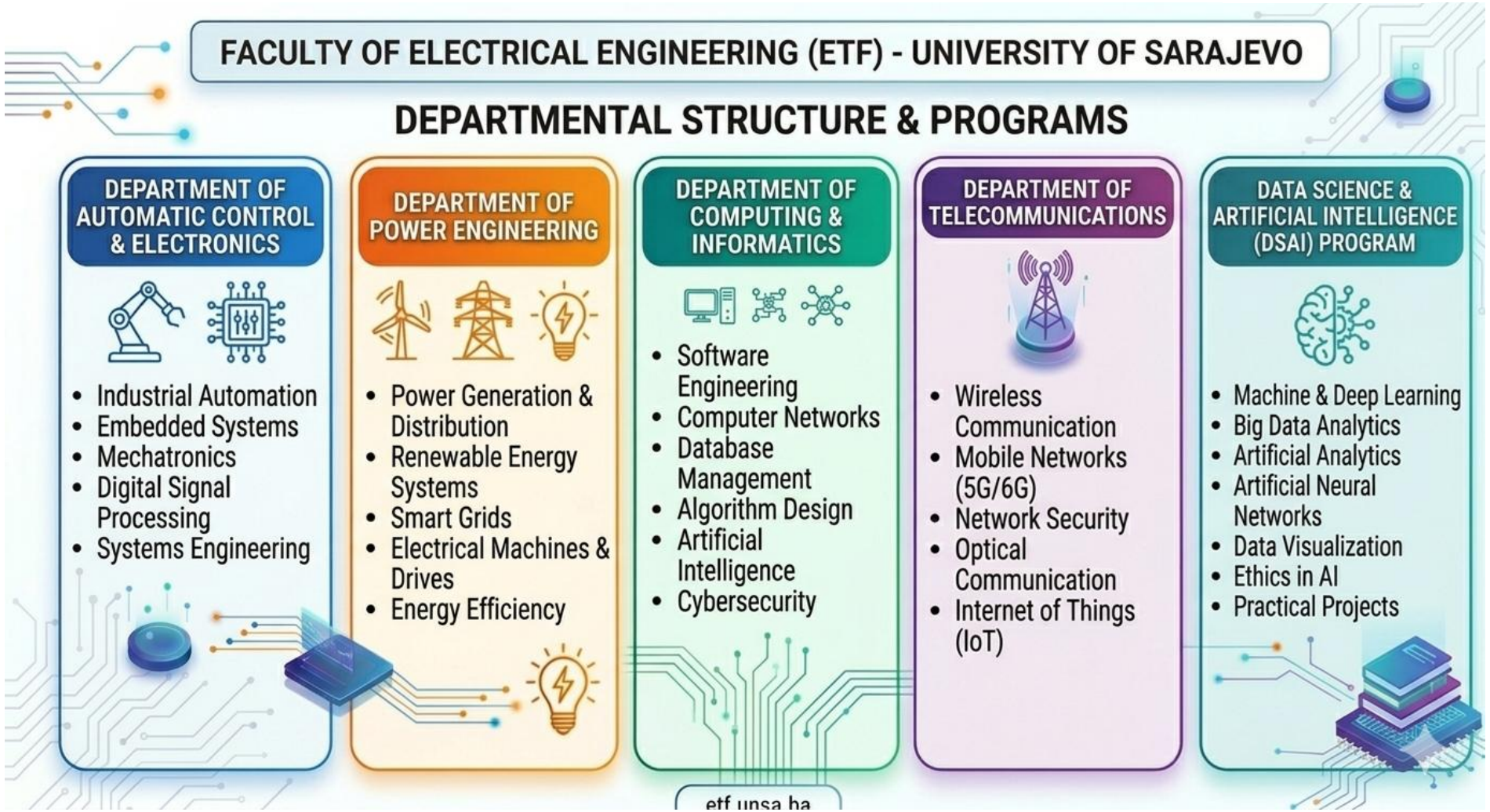
Faculty of Electrical Engineering (ETF) @ UNSA

- Founded in 1961
  - About 120 employees (100 academic staff)
  - About 2000 students
  - Has educated over 19,000 students since its founding.





Faculty of Electrical Engineering (ETF) @ UNSA



Human-Centered Artificial Intelligence

HCAI Lab Members



Senka Krivić, PhD

Assistant Professor at the Faculty of Electrical Engineering at the University of Sarajevo and Visiting Lecturer at King's College London

Formerly, Senka spent several years as a Research Associate at the Department of Informatics at King's College London as a member of the Planning and Reasoning Group and the Human-AI Teaming (HAT) lab. She obtained her Ph.D. degree in Computer Science from the University of Innsbruck at Intelligent and Interactive Systems Group. Dr. Krivic is a member of ELLIS network.



Amar Halilović

Ph.D. Candidate

Amar Halilovic is a PhD student and research and teaching assistant at Ulm University, Germany. His research is on Explainable Robotics, where his focus is on developing methods that make the decision-making processes in robot motion planning interpretable. Amar's academic journey includes a Bachelor's and Master's degrees in Electrical Engineering from the University of Sarajevo and a Master's degree in Computer Science from Mälardalen University, Sweden.



Vahidin Hasić

Ph.D. Candidate

Vahidin Hasić is a PhD student and teaching assistant at Faculty of Electrical Engineering, Department for Computer Science and Informatics, University of Sarajevo. His research is on AI explainability and Computer Vision. He holds a Master's Degree in Computer Science, Faculty of Electrical Engineering, University of Sarajevo.



Amina Mević

Ph.D. Candidate

Amina Mević is a PhD student and teaching assistant at the Department for Computer Science and Informatics, University of Sarajevo, Faculty of Electrical Engineering. Her research focus is on data-driven Virtual Metrology. She previously studied Physics at the University of Sarajevo, Faculty of Natural Science and Mathematics, and holds a Master's Degree in Theoretical Physics.



Mubina Kamberović

Ph.D. Candidate

Mubina Kamberović is a PhD student at the Faculty of Electrical Engineering, Department of Computer Science and Informatics, University of Sarajevo. Her main research area is AI-Assisted Learning. She also works as an MLOps/ML Engineer at Starbyte in Sarajevo. She completed her Bachelor's and Master's degrees in Computer Science at the Faculty of Electrical Engineering at the University of Sarajevo.



Ajla Karajko

Ph.D. Candidate

Ajla Karajko is a Ph.D. candidate specializing in AI governance, with a research focus on the intersection of artificial intelligence, policy, and regulatory frameworks to advance responsible AI governance. She holds a Bachelor's degree in Economics from Barnard College, Columbia University, and a Master's degree from the School of International and Public Affairs (SIPA) at Columbia University. With over a decade of experience in startups, business development, and marketing across diverse industries, Ajla has been instrumental in driving innovation and strategic growth.

Human-Centered Artificial Intelligence

Research Areas



Explainable AI

Developing transparent and interpretable AI systems that humans can understand and trust.



Robot Learning

Advancing robotic systems through machine learning and automated planning techniques.



Human-Agent Interaction

Creating intuitive and effective collaboration between humans and AI agents.



Reinforcement Learning

Teaching AI systems to make optimal decisions through interaction with environments.



Ethical AI

Ensuring AI systems align with human values, fairness, and societal well-being.



Cognitive Systems

Developing AI models to enable reasoning, learning, and intelligent decision-making.

Association for Advancing Science and Techology

Educational projects

2017

Year of establishment

130+

Active members and volunteers

30+

Successfully realized projects

EEML

STEM Youth Camp

Mali Muzej NAUKE

PSI

PROJEKAT STUDENTSKIH ISTRAŽIVANJA

- AI hackathon
- Science Night

Strateški projekti

BH akademski imenik

LANDSCAPE BOSNIA AND HERZEGOVINA

insight

- Writing a strategy for the development of science, technology and innovation
- Establishment of a scientific institute

Eastern European Machine Learning 2025 (EEML 2025)



Doina Precup

McGill University

Google DeepMind



Razvan Pascanu

Google DeepMind



Viorica Patraucean

Google DeepMind



Suad Krilašević

ANNT



Harun Muhić

ANNT



Senka Krivić

University of Sarajevo

King's College



Vahidin Hasić

University of Sarajevo

Infineon



Petar Veličković

Google DeepMind

University of Cambridge



Hamza Merzić

Google DeepMind

University College London



Matko Bošnjak

Google DeepMind



Zlatan Ajanović

RWTH Aachen

ANNT



Ajla Karajko

ANNT



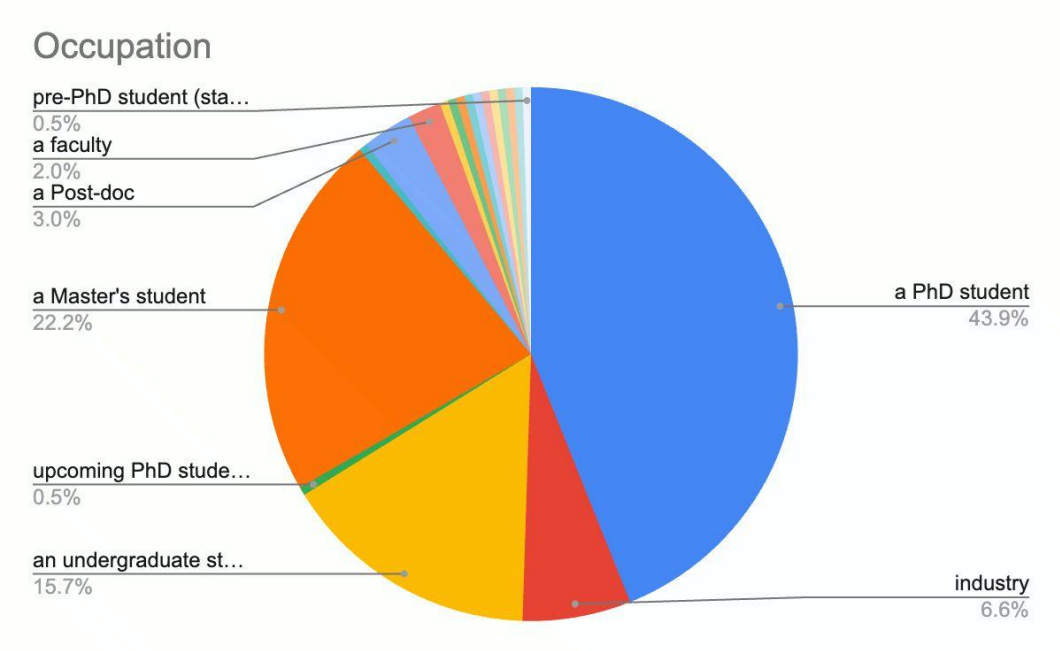
Džan Ahmed Jesenković

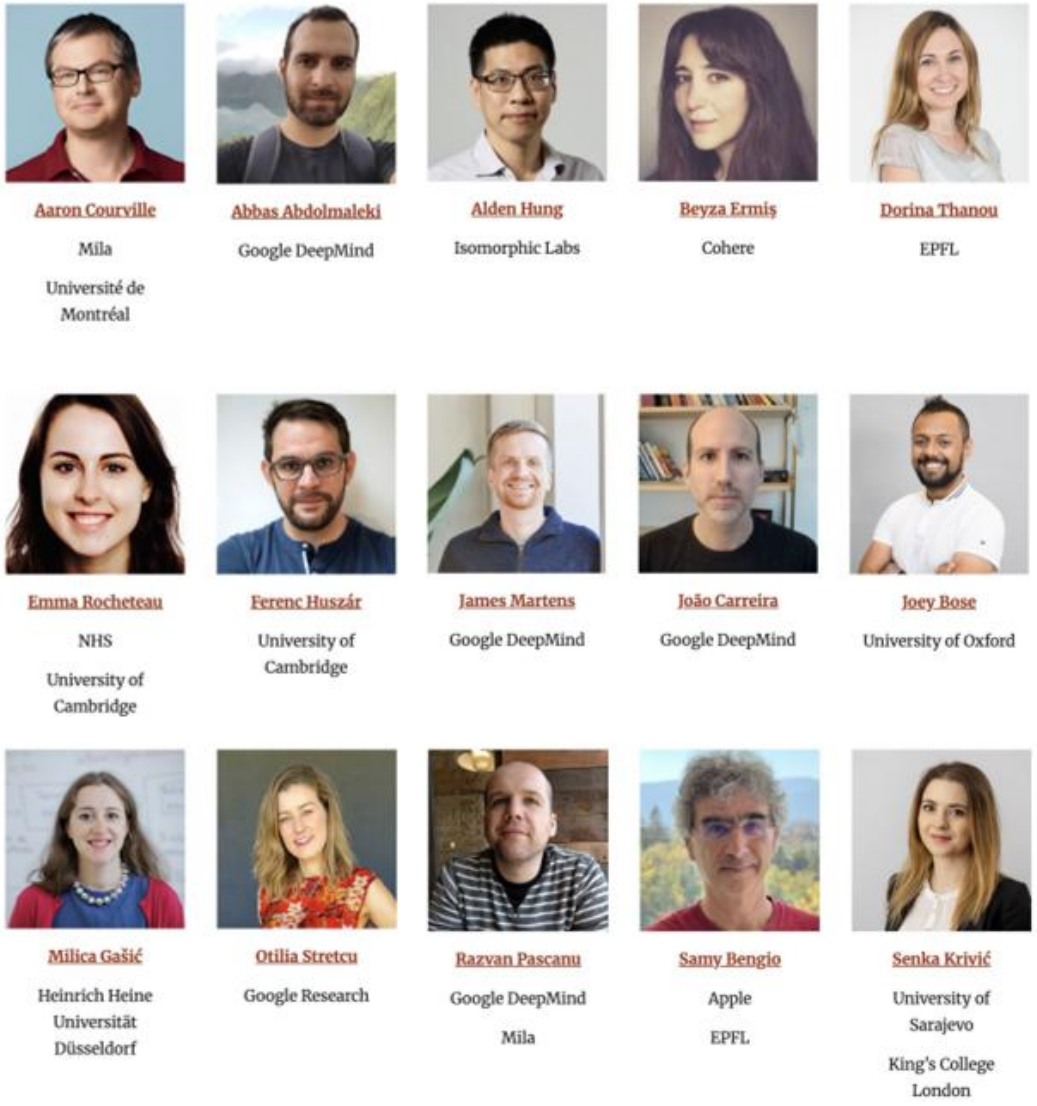
University of Sarajevo

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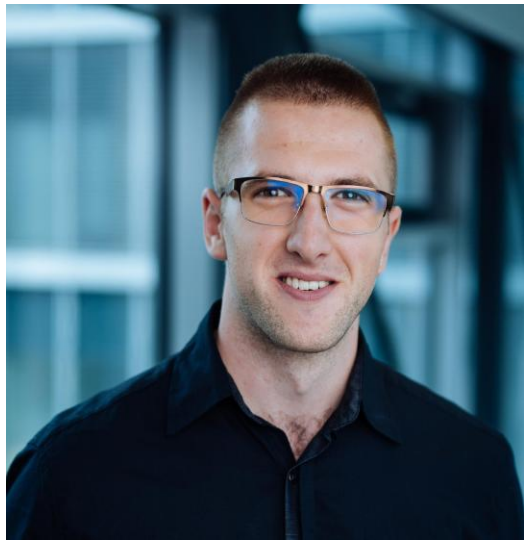
Eastern European Machine Learning 2025 (EEML 2025)

- 991 applications (!) makes EEML2025 the **most popular applied to** one so far – acceptance rate of ~20%.
- 300 participants (with industry)
- **More than 44 countries!**





⚡ Thank you for your attention!



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