

Sandro Paradžik

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in sandropap

Experience

AI/ML Engineer Intern: ModelCat

San Francisco Bay Area (Remote), Aug 2025 – Present

Lecturer: Math School for Gifted Students

Sarajevo, 2022 – Present

- Deliver lectures on **olympiad-level combinatorics** and advanced problem-solving strategies.
- Program participants consistently achieve medals at international competitions.

Research Intern: Max Planck Institute for Biological Cybernetics

Tübingen, Jul – Sep 2024

- Applied **Dynamic Mode Decomposition** (DMD) to analyze zebrafish calcium imaging data, discovering functional subnetworks and significant spatiotemporal patterns like oscillatory dynamics in the optic tectum.
- Demonstrated DMD's superior capability in capturing coupled spatial and temporal neural dynamics compared to traditional methods (e.g., PCA, ICA), contributing to research in the RoLi Lab.
- Selected for a highly competitive program with a 1.35% acceptance rate in 2024.

Education

BSc in Theoretical Computer Science: University of Sarajevo

GPA 8.2/10, Oct 2021 – Sep 2025

Summer Schools.....

Mediterranean Machine Learning Summer School

Split, 8-12 Sep 2025

Acceptance rate: 18%

Eastern European Machine Learning Summer School

Sarajevo, 21-26 Jul 2025

Acceptance rate: ~20%

Math Competitions

Mediterranean Mathematics Competition: **Bronze, Hon. Mention, Bronze**

2021, 2019, 2018

Federal Mathematics Competition of FBiH: Ranked **2nd, 1st, 3rd**

2021, 2019, 2018

Skills

Programming.....

Python (NumPy, SciPy, scikit-learn, PyDMD, Pandas), Git, SQL, Linux/Bash, C++, LaTeX

Languages.....

Bosnian (native), English (C1)