Sandro Paradžik

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⌂ sandropa • **in** sandro-paradzik

Experience

Machine Learning Intern: ModelCat   *San Francisco Bay Area (Remote), Aug 2025 – Present*

Lecturer: Math School for Gifted Students   *Sarajevo, 2022 – Present*

- Teach olympiad-level combinatorics (∼2 lectures per month).
- Our students achieve medals at IMO.

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%

Selected awards from math competitions

Mediterranean Mathematics Competition: **Bronze, HM, Bronze**   *2021, 2019, 2018*

Federation of Bosnia and Herzegovina: Ranked **2nd, 1st, 3rd**   *2021, 2019, 2018*

Skills

Programming   **Languages**
Python, Git   Bosnian (native), English (C1)