

# Sandro Paradžik

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in sandropa

## Experience

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**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

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**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

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Mediterranean Mathematics Competition: **Bronze, Hon. Mention, Bronze** *2021, 2019, 2018*

Federal Mathematics Competition of FBiH: Ranked **2nd, 1st, 3rd** *2021, 2019, 2018*

## Skills

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**Programming** .....

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

**Languages** .....

Bosnian (native), English (C1)