

Aleksa Milojević

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Education

ETH Zürich , Zürich, Switzerland	2023–
– Ph.D. in Mathematics, advised by Prof. Benny Sudakov	
Princeton University , Princeton, NJ	2019–2023
– Bachelor of Arts in Mathematics, Valedictorian	
Mathematical Grammar School , Belgrade, Serbia	2013–2019
– Valedictorian	

Prizes and Awards

International Mathematical Olympiad

- **2 Gold medals**, IMO 2018 and IMO 2019
- **2 Silver medal**, IMO 2016 and IMO 2017

International Physical Olympiad

- **Silver medal**, IPhO 2019

International Olympiad in Informatics

- Participation, IOI 2018

William Lowell Putnam Mathematical Competition

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| – Individual Rank Top 100, Honorable mention | 2022 |
| – Individual Rank Top 200 and Team Second place | 2021 |
| – Individual Rank Top 100, Honorable mention | 2019 |

Educational and Outreach activities

On-campus jobs

2020-2022

- Worked as a grader/tutor for several math and computer science classes, including as well as a peer tutor for MAT 215 (Single Variable Analysis), MAT 217 (Honors Linear Algebra), MAT 377 (Introduction to Combinatorics), MAT 478 (Extremal Combinatorics), COS 487 (Theory of Computation) and COS 495 (Blockchains, Cryptocurrencies and Decentralization)

Organization of extracurricular classes and competitions for younger students

2016-2022

- Organizer of the Olympiad preparation classes for younger students in my high-school.
- Directing 2022 edition of PUMaC, a day-long contest with more than 500 high-school students participating

Publications

O. Janzer, A. Methuku, A. Milojević, B. Sudakov *Power saving for the Brown-Erdős-Sós problem*, arXiv:2311.12765

A. Milojević, *Connectivity of Old and New Models of Friends-and-Strangers Graphs*, to appear in Advanced in Applied Mathematics, arXiv:2210.03864

N. Alon, A. Gujgiczer, J. Körner, A. Milojević, G. Simonyi, *Structured Codes of Graphs*, SIAM Journal on Discrete Mathematics, arXiv:2202.06810.