Aleksa Milojević

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Education

ETH Zürich, Zürich, Switzerland   2023–
  – Ph.D. in Matematics, 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
  – 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

Z. Hunter, A. Milojević, I. Tomon, B. Sudakov, *Kővári-Sós-Turán theorem for hereditary families*, arXiv:2401.10853

A. Milojević, I. Tomon, B. Sudakov, *Point-hyperplane incidences via extremal graph theory*, arXiv:2401.06670

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*, 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.