

Danil Sagunov

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Education

St. Petersburg Department of Steklov Institute of Mathematics of the Russian Academy of Sciences. 2019–present

Ph.D. student

- o Advisor: Ivan Bliznets
- o Major: Theoretical Computer Science

St. Petersburg Academic University of the Russian Academy of Sciences. 2017–2019

M.Sc., Department of Mathematics and Information Technology

- o Thesis title: "Algorithms and Lower Bounds for the Target Set Selection Problem"
- o Advisor: Ivan Bliznets
- o Major: Theoretical Computer Science

Saratov State University. 2013–2017

Bachelor, Department of Mathematical Cybernetics and Computer Science

- o Graduation project: "Graphs as a Representation of Program Output Context"
- o Advisor: Alexander Ivanov
- o Major: Software Engineering

Publications

- [1] Ivan Bliznets and Danil Sagunov. **Lower Bounds for the Happy Coloring Problems.** In *Computing and Combinatorics – 25th International Conference, COCOON 2019, Xi'an, China, July 29–31, 2019, Proceedings*, pages 490–502, 2019.
- [2] Ivan Bliznets and Danil Sagunov. **Solving Target Set Selection with Bounded Thresholds Faster than 2^n .** In *13th International Symposium on Parameterized and Exact Computation (IPEC 2018)*, pages 22:1–22:14.

Employment and Teaching

Researcher, St. Petersburg Department of Steklov Institute of Mathematics of the Russian Academy of Sciences, St. Petersburg, Russia. 2019–present

Algorithms Teacher, Saint Petersburg State University, St. Petersburg, Russia. 2019–present

teaching students in algorithms

Algorithms and Programming Teacher, Saratov State University, Saratov, Russia. 2014–2017

preparing students for programming contests

Problem Coordinator, HackerRank. 2016–2017

preparing and testing programming contest rounds

Problem Coordinator, Codeforces. 2016

preparing and testing programming contest rounds

Android Software Developer, Displair Inc., Astrakhan, Russia. 2012

developing low-level Android emulation software

Additional projects

- School programming team coach, Saratov, Russia. 2016
- Jury member of regional stage of the All-Russian Olympiad in Informatics, Saratov, Russia. 2015–2016
- Jury member of regional stage of the All-Russian Team Olympiad in Informatics, Saratov, Russia. 2015–2016

Honors and awards

- Eighth Place in Google Hash Code Final Round, Dublin, Ireland. 2018
- Second Degree Diploma in ACM ICPC Northeastern Europe Sub-regional Contest, St. Petersburg, Russia. 2016
- Fourteenth Place in The 40th Annual ACM-ICPC World Finals, Phuket, Thailand. 2016
- Ninth Place in ACM ICPC Northeastern Europe Subregional Contest, St. Petersburg, Russia. 2015

Schools and conferences attended

- The 25th International Computing and Combinatorics Conference (COCOON 2019), Xian, China. August 2019
- 45th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2019), Vall de Núria, Spain. June 2019
- The 17th Annual Winter School in Algorithms, Graph Theory and Combinatorics, Finse, Norway. March 2019
- ALGO 2018, Helsinki, Finland. August 2018
- Summer School on Algorithms and Lower Bounds, Prague, Czech Republic. July 2018
- Recent Advances in Algorithms (RAA 2018), St. Petersburg, Russia. May 2018

Talks

- Parameterized Complexity of the Happy Coloring Problems, The 17th Annual Winter School in Algorithms, Graph Theory and Combinatorics, Finse, Norway. March 2019
- Lower bounds and exact exponential algorithms for the Target Set Selection problem, Workshop of Summer School on Algorithms and Lower Bounds, ICALP 2018, Prague, Czech Republic. July 2018

Research interests

Exact algorithms, Parameterized complexity, Kernelization, Algorithms for NP-hard problems, Graph algorithms, Computational complexity

References

Ivan Bliznets (advisor), iabliznets@gmail.com.

St. Petersburg Department of Steklov Institute of Mathematics of the Russian Academy of Sciences