




Yuriy Dementiev, M.Sc. student



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🌐 yudementiev.github.io

Current positions

- 2022 – ····  **International Laboratory of Game Theory and Decision Making, HSE University**
Researcher
-  **Leonhard Euler International Mathematical Institute**
Researcher
-  **MY.GAMES**
Data Analyst

Education






- 2022 – 2024  **M.Sc. in Mathematics and Computer Science** in St.-Petersburg University
Emphasys on Software Development and Data Science
In progress, GPA 5.00/5.00
- 2018 – 2022  **B.Sc. in Mathematics and Computer Science** in St.-Petersburg University
Emphasys on Mathematics and Theoretical Informatics
Graduated cum laude
Thesis title: *Half-duplex communication complexity bounds, and topological embedding problem for colored trees*

Research Interests


Algorithms, Parameterized Complexity, Algorithmic Game Theory, Communication Complexity, Data Analysis

Publications

Conference Proceedings

-  N. Morozov, A. Ignatiev, and Y. Dementiev, “Several stories about high-multiplicity efx allocation,” in *AAAI Student Abstract*, 2024.
-  Y. Dementiev, F. Fomin, and A. Ignatiev, “Inconsistent planning: When in doubt, toss a coin!” In *Proceedings of the AAAI Conference on Artificial Intelligence*, 2022, pp. 9724–9731.  URL:
<https://doi.org/10.1609/aaai.v36i9.21207>.
-  Y. Dementiev, A. Ignatiev, V. Sidelnik, A. Smal, and M. Ushakov, “New bounds on the half-duplex communication complexity,” in *Burě’s T. et al. (eds) SOFSEM 2021: Theory and Practice of Computer Science. Lecture Notes in Computer Science, vol 12607*. Springer, Cham, 2021.  URL:
https://doi.org/10.1007/978-3-030-67731-2_17.

Preprints

-  T. Belova, Y. Dementiev, F. Fomin, P. Golovach, and A. Ignatiev, *How to guide a present-biased agent through prescribed tasks?* 2024.

Teaching




- Spring 2024  **Information Theory**
St.-Petersburg University
-  **Communication games**
Sirius
- Summer 2023  **Inconsistent Planning**
Summer School in St.-Petersburg University
- Spring 2023  **Mathematical Foundations of Algorithms**
St.-Petersburg University
-  **Greedy Conjecture in the Superstring problem**
Sirius
- 2022 - 2023  **Computer Science Seminar**
St.-Petersburg University
-  **Supervisor of the research project for students in TCS**
St.-Petersburg University
- Summer 2022  **Inconsistent Planning**
Summer School in St.-Petersburg University
- 2020 - 2022  Math teacher in mathematical club for talented schoolchildren

Research Visits

- 2023  **Institute for Theoretical Computer Science, SUFE**
Shanghai, Host: Nick Gravin

Miscellaneous Experience



Talks and Posters

- 2022  **36th AAI Conference**
Talk “Inconsistent Planning: When in doubt, toss a coin!”
Virtual Conference
-  **36th AAI Conference**
Poster Session, online
- 2021  **SOFSEM Conference**
Conference, online




Student Schools

- 2023  **EPIT 2023: Le Kaléidoscope de la Complexité**
Oleron Island, France
- 2021  **Computational Complexity Theory**
Sirius University, Sochi



Awards and Achievements

- 2022 - 2023  **VK Scholarship**
- 2022  Winner of “**Open competition to support young mathematicians of St.-Petersburg**”
from Leonhard Euler International Mathematical Institute and St.-Petersburg University

Miscellaneous Experience (continued)

- 2021 - 2022  Winner of “**Competition of mathematical projects completed by young researchers**”
from Leonhard Euler International Mathematical Institute
- 2019 - 2022  **Gazprom Neft Scholarship**
-  Prizewinner of several olympiads in Mathematics and Informatics

Skills

- Languages  Russian (native), English (upper-intermediate (B2))
- Coding  Python (including Pandas and Numpy), SQL, XML/XSL, \LaTeX , ...