Artur Ignatiev

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🌐 aaignatiev.github.io

Positions

2022 – · · · · **International Laboratory of Game Theory, HSE University**
Junior Research Fellow.

Leonhard Euler International Mathematical Institute
Researcher.

2022 – 2023 **StarKit Studio**
Game Analyst.

2021 – 2022 **Tinkoff**
Internship, Data Scientist.

Education

2022 – 2024 **M.Sc. Computer Science, St. Petersburg University, Department of Mathematics and Computer Science**
Thesis title: *Inconsistent Planning: Task Graph Modification.*

2018 – 2022 **B.Sc. Mathematics, St. Petersburg University, Department of Mathematics and Computer Science**
Thesis title: *Communication complexity bounds on Karchmer-Wigderson games.*
With distinction.

Research interests

Algorithms, Parameterized Algorithms, Algorithmic Game Theory, Communication Complexity.

Publications

Conference Proceedings

1. N. Morozov, A. Ignatiev, and Y. Dementiev, "Several Stories about High-Multiplicity EFx Allocation (Student Abstract)," in *AAAI*, 2024.

2. A. Ignatiev, I. Mikhailin, and A. Smal, "Super-cubic lower bound for generalized Karchmer-Wigderson games," in *ISAAC*, 2022.

3. Y. Dementiev, A. Ignatiev, and F. Fomin, "Inconsistent Planning: When in doubt, toss a coin!" In *AAAI*, 2022.

4. Y. Dementiev, A. Ignatiev, V. Sidelnik, A. Smal, and M. Ushakov, "New Bounds on the Half-Duplex Communication Complexity," in *SOFSEM*, 2021.

Preprints

1. T. Belova, Y. Dementiev, F. V. Fomin, P. Golovach, and A. Ignatiev, *How to guide a present-biased agent through prescribed tasks? (under review in IJCAI 2024).*

Teaching

2024	🔖	**Communication Games** Research project, Sirius.
	🔖	**Information Theory** St. Petersburg University.
2023	🔖	**Parameterized Algorithms** St. Petersburg University.
2023, 2022	🔖	**Inconsistent Planning** Summer School, St. Petersburg University.
2023	🔖	**Greedy Conjecture in the Superstring problem** Sirius.
	🔖	**Mathematical Foundations of Algorithms** St. Petersburg University.
2022 – 2023	🔖	**Computer Science Seminar** St. Petersburg University.

Research Visits

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

Miscellaneous Experience

Talks and Posters

2022	🔖	**AAAI 2022** Poster Session, Online.
2021	🔖	**SOFSEM 2021** 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

2023 – 2024	🔖	**Bonus for Academic Work**, HSE University.
2022 – 2023	🔖	**VK Scholarship**.
2021 – 2022	🔖	Winner of "Competition of mathematical projects completed by young researchers" Leonhard Euler International Mathematical Institute in Saint Petersburg.
2020 – 2022	🔖	**Yandex Scholarship**.
2018 – 2019	🔖	**Gazprom Neft Scholarship**.
	🔖	**Prizewinner of several Olympiads in mathematics**.

Skills

Languages	🔖	Russian, English (upper-intermediate).
Coding	🔖	Python, SQL, LaTeX.