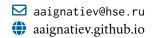
Artur Ignatiev



Positions

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

2018 – 2022 **B.Sc. Mathematics, St. Petersburg University**

With distinction

Thesis title: Communication complexity bounds on Karchmer-Wigderson games.

Research interests

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

Publications

Conference Proceedings

- N. Morozov, A. Ignatiev, and Y. Dementiev, "Several Stories about High-Multiplicity EFx Allocation (Student Abstract)," in *AAAI*, 2024.
- A. Ignatiev, I. Mikhailin, and A. Smal, "Super-cubic lower bound for generalized Karchmer-Wigderson games," in *ISAAC*, 2022.
- Y. Dementiev, A. Ignatiev, and F. Fomin, "Inconsistent Planning: When in doubt, toss a coin!" In *AAAI*, 2022.
- Y. Dementiev, A. Ignatiev, V. Sidelnik, A. Smal, and M. Ushakov, "New Bounds on the Half-Duplex Communication Complexity," in *SOFSEM*, 2021.

Preprints

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 Information Theory
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.

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

Bonus for Academic Work, HSE University.

VK Scholarship.

2021 – 2022 Winner of "Competition of mathematical projects completed by young researchers" Leonhard Euler International Mathematical Institute in Saint Petersburg.

2020 – 2022 **Xandex Scholarship**.

2018 – 2019 **Gazprom Neft Scholarship**.

Prizewinner of several Olympiads in mathematics.

Skills

Languages Russian, English (upper-intermediate).

Coding Python, sql, LaTeX.