







## 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**
- 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

- 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  **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.
- 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,  $\text{\LaTeX}$ .