






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

## Research interests







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

## Publications

### Conference Proceedings

- 1 A. Ignatiev, I. Mikhailin, and A. Smal, “Super-cubic lower bound for generalized karchmer-wigderson games,” in *ISAAC*, 2022.
- 2 Y. Dementiev, A. Ignatiev, and F. Fomin, “Inconsistent planning: When in doubt, toss a coin!” In *AAAI*, 2022.
- 3 Y. Dementiev, A. Ignatiev, V. Sidelnik, A. Smal, and M. Ushakov, “New bounds on the half-duplex communication complexity,” in *SOFSEM*, 2021.

## Teaching

- 2023  **Inconsistent Planning**  
Summer School, St. Petersburg University.
-  **Greedy Conjecture in the Superstring problem**  
Sirius.
-  **Mathematical Foundations of Algorithms**  
St. Petersburg University.
- 2022 – 2023  **Computer Science Seminar**  
St. Petersburg University.
- 2022  **Inconsistent Planning**  
Summer School, St. Petersburg University.
- 2018 – 2022  **Olympiad mathematics**

## Miscellaneous Experience

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### 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

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- Languages  Russian, English (upper-intermediate).
- Coding  Python, SQL,  $\text{\LaTeX}$ .