

# Dmitry (Dima) Ivanov

PhD (exp. 2024)

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## Education

**Postdoctoral Student, October 2022 - September 2024**

Data and Decision Sciences, Technion, Haifa, Israel

**Doctoral Student, November 2018 - November 2021**

AI and ML, HSE University, St. Petersburg, Russia

**MSc, September 2016 - June 2018**

DS and ML, HSE University, St. Petersburg, Russia

**BSc, September 2012 - June 2016**

Biophysics, Polytechnic University, St. Petersburg, Russia

## Work Experience

**Research Fellow, July 2019 - April 2022**

Agent Systems and RL lab, JetBrains Research, St. Petersburg, Russia

**Research Fellow, April 2017 - September 2022**

[Game Theory and Decision Making](#) lab, HSE, St. Petersburg, Russia

**Data Analyst, August 2017 - January 2018**

404 Group, St. Petersburg, Russia

## Teaching Experience

**Lectures and Seminars, 2021**

– [Introduction to ML](#) for 4th year BSc economists, HSE, St. Petersburg, Russia

– Introduction to Deep RL for high school students, summer school, Pushkin, Russia

## Achievements

– [1st place RL track](#), AICrowd Flatland, NeurIPS 2020, team JBR.HSE

– Winner of [Yandex ML Prize](#) for young researchers, 2020

## Languages and Skills

Russian (native), English (fluent)

L<sup>A</sup>T<sub>E</sub>X, Python 3

## Research Interests

Deep Learning, Reinforcement Learning, Multi-Agent Reinforcement Learning;

Automated Mechanism Design: Auctions, Contracts

## Selected Papers

**Principal-Agent Reinforcement Learning**

Ivanov D, Dütting P, Talgam-Cohen I, Wang T, Parkes D; under review at ICML 2024

**Personalized Reinforcement Learning with a Budget of Policies**

Ivanov D, Ben-Porat O; AAAI 2024, [arXiv:2401.06514](#)

**Deep Contract Design via Discontinuous Networks**

Wang T, Dütting P, Ivanov D, Talgam-Cohen I, Parkes D; [NeurIPS 2023](#), [arXiv:2307.02318](#)

**Mediated Multi-Agent Reinforcement Learning**

Ivanov D, Zisman I, Chernyshev K; [AAMAS 2023](#), [arXiv:2306.08419](#)

**Optimal-er Auctions through Attention**

Ivanov D, Safiulin I, Filippov I, Balabaeva K; [NeurIPS 2022](#), [arXiv:2202.13110](#)

**Identifying Bid Leakage In Procurement Auctions: ML Approach**

Ivanov D, Nesterov A; [EC'19](#), [arXiv:1903.00261](#)