

# Rodion Zaytsev

[rvzaytsev@edu.hse.ru](mailto:rvzaytsev@edu.hse.ru) | +79037770244 | [personal website](#)  
Moscow, Russia

## EDUCATION

2022-24	Faculty of Mathematics, Higher School of Economics (HSE)	M.Sc. in Mathematics <b>GPA 9.82/10.00, top 3 / 42</b>
2022-24	Skolkovo Institute of Science and Technology	Mathematical and Theoretical Physics
2021-23	Yandex School of Data Analysis <b>Acceptance rate: 5%</b>	Machine Learning Developer M.Sc. equivalent additional education <b>GPA 4.7/5.0</b>
2017-21	Moscow Institute of Physics and Technology (with transfer credits from HSE)	B.Sc. in Applied Mathematics and Informatics

## INTERSHIPS

SUMMER 2023	École Polytechnique Topic: Inverse Scattering Supervisor: R.G. Novikov	Summer Research Student ◦ Derived formulas for inverting band-limited Hankel transform ◦ Implemented code for numerical examples
SUMMER 2021	Deutsches Elektronen-Synchrotron (DESY) Topic: Interferometric Mirror Tracking System Supervisor: M. Lyubomirskiy	Summer Research Student ◦ Developed & implemented a method for X-ray scanning ◦ Presented the results at the faculty seminar

## PUBLICATIONS

IN PROGRESS	Rodion Zaytsev "Commutation Relations in Yangian-type Algebras"	<a href="#">current draft</a>
IN PROGRESS	Mikhail Isaev, Roman G. Novikov, Rodion Zaytsev "PSWF-Radon approach to reconstruction from band-limited Hankel transform"	To be submitted to <i>Inverse Problems</i> <a href="#">current draft</a>
IN PROGRESS	Alexey Kanel-Belov, Rodion Zaytsev "Insolvability of $x^x = a$ in elementary functions"	Submitted to <i>Mathematics</i> , MDPI <a href="#">draft</a>
2020	A. Kanel-Belov, A. Malistov and R. Zaytsev "Solvability of equations in elementary functions"	<i>Journal of Knot Theory &amp; Its Ramifications</i> , 29(2) <a href="#">arxiv preprint</a>

## HONORS & AWARDS

2023-24	Tinkoff Scholarship (awarded for academic merit) <b>1.5% acceptance</b>	25'000P (ca. 250\$) monthly
APR. 2023	"I am a professional" National Olympiad, Artificial Intelligence	Bronze Medalist (Absolute 3rd place), <b>top 0.3%</b> 150'000P (ca. 1'500\$) award
AUG. 2019, AUG. 2021	International Mathematics Competition for University Students	First prize

## TALKS

OCT. 2023	Skoltech, Moduli Space of Curves Seminar Presentation	Modular Forms and $\psi_1$ on $\overline{\mathcal{M}}_{1,1}$
OCT. 2023	HSE, Representation Theory Seminar Presentation	Path Integral. Correlation Functions in Klein-Gordon and $\varphi^4$ Theories
AUG. 2023	Skoltech Center for Advanced Studies Summer School, Presentation	Commutation relations in Yangian-type algebras
APR. 2021	Moscow State University Lomonosov 2021 Conference, Presentation	Solvability of equations in elementary functions

## TEACHING

FALL 2023	HSE teaching assistant Geometric Introduction to Algebraic Geometry	Marking weekly assignments of ca. 15 students
2019-PRESENT	Online private lessons	Helping students prepare for exams in math