

# Ilya Losev

Losevilya14@gmail.com  
+44 7415 097148

## *Education*

---

<b>University of Cambridge</b> PhD in Mathematics of Information	October 2021 – Present <i>Supervisor: James Norris</i>
<b>St. Petersburg State University</b> Master in Mathematics; GPA: 5/5	September 2019 – June 2021 <i>Supervisor: Yurii Belov</i>
<b>University of Geneva, SwissMAP Master Class</b> Master in Mathematical Physics; GPA: 5.9/6	September 2019 – August 2020 <i>Supervisor: Stanislav Smirnov</i>
<b>St. Petersburg State University</b> Bachelor in Mathematics; GPA: 5/5	September 2015 – June 2019 <i>Supervisor: Yurii Belov</i>

## *Job experience*

---

<b>Research Assistant</b> Chebyshev Laboratory, St. Petersburg State University	November 2017 – September 2021
<b>Organizer of St. Petersburg Math Olympiad</b> Mathematics Olympiad Committee, St. Petersburg	September 2016 – May 2018
<b>Teaching Assistant</b> Physics and Mathematics Lyceum 239, St. Petersburg	September 2015 – August 2019

## *Research interests*

---

My research is mainly focused on problems related to probability theory, statistical physics and quantum field theories. I am studying probabilistic models that come from mathematical physics, and I am interested in questions related to the description of their large-scale or large-time (for stochastic processes) behaviour.

## *Research papers*

---

Ilya Losev; Large Deviations of the Schwarzian Field Theory, *arXiv:2406.17069*, 2024

Ilya Losev; Probabilistic derivation of the correlation functions of the Schwarzian Field Theory, *arXiv:2406.17071*, 2024

Roland Bauerschmidt, Ilya Losev, Peter Wildemann; Probabilistic Definition of the Schwarzian Field Theory, *arXiv:2406.17068*, 2024

Ilya Losev, Stanislav Smirnov; How long are the arms in DBM?, *arXiv:2307.14931*, 2023

Ilya Losev; Jacobi matrices with lacunary spectrum, *Journal of Mathematical Analysis and Applications*, Volume 503, Issue 1, 2021

## *Awards*

---

**Edouard Gans Prize** 2020

Best Master's Thesis in Mathematics, University of Geneva

**International Mathematics Competition, Gold Medal** 2017

University Level Competition

## *Research talks and posters*

---

**Sapienza Probability Seminar** Rome, Italy; March 2024  
How long are the arms in DBM? *Seminar Talk*

**Cambridge Probability Seminar** Cambridge, UK; October 2023  
How long are the arms in DBM? *Seminar Talk*

**Phase Transitions and Correlated Random Processes** Cambridge, UK; May 2023  
Schwarzian Field Theory *Short Talk*

**Probability and Mathematical Physics Conference** Helsinki, Finland; July 2022  
How long are the arms in DBM? *Poster*

**7th SwissMAP General Meeting** Gstaad, Switzerland; August 2020  
How long are the arms in DBM? *Poster*

**SwissMAP Site Visit** Online; June 2020  
How long are the arms in DBM? *Poster*

**Emergent Trends in Complex  
Function Theory Workshop**  
Jacobi matrices with lacunary spectrum

Barcelona, Spain; October 2019  
*Short Talk*

**Spectral Function Theory  
International Spring School**  
Jacobi matrices with lacunary spectrum

St. Petersburg, Russia; April 2019  
*Short Talk*

*Other research visits*

---

**Oberwolfach Arbeitsgemeinschaft**  
QFT and Stochastic PDEs

Oberwolfach, Germany; December 2023  
*Reading Group*

**SwissMAP Research Station**  
Short Research Stay

Les Diablerets, Switzerland; August 2023  
*Research Visit*