Sergey Dovgal

Personal Data

Place and Date of Birth:	Belarus | 06 January 1993
Phone:	+33 6 17 57 58 98
email:	dovgal@lipn.univ-paris13.fr
PhD Thesis:	LIPN Université Paris 13, 99 avenue Jean-Baptiste Clément, 93430 Villetaneuse

Education

2016–Present PhD Thesis. Laboratoire Informatique Paris Nord,
Université Paris 13, 99 avenue Jean-Baptiste Clément, 93430 Villetaneuse
Advisor: Prof. Olivier Bodiny
Co-Advisor: Prof. Vlady Ravelomanana, IRIF, Université Paris 7,
8 Place Aurélie Nemours, 75013 Paris

April–June 2016 M2 internship, Laboratoire d'Informatique Algorithmique: Fondements et Applications
LIAFA, Université Paris 7, 8 Place Aurélie Nemours, 75013 Paris
Topic: Graphs with degree constraints
Advisor: Prof. Vlady Ravelomanana

2014–2016 Master Degree with distinguishment. Department of Control and Applied Mathematics,
Moscow Institute of Physics and Technologies
Thesis: "Fisher and Wilks Theorems for Local Log-Density Estimation"
Advisor: Prof. Vladimir Spokoiny

2010–2014 Bachelor Degree. Department of Control and Applied Mathematics,
Moscow Institute of Physics and Technologies
Thesis: "Bootstrap Credible Sets for Local Maximum Likelihood Approach"
Advisors: Prof. Vladimir Spokoiny, Evgeny Burnaev

Research

2017 Work in progress. Olivier Bodini, Sergey Dovgal: «Fast tuning of Multivariate Boltzmann Samplers and combinatorial Maximum Likelihood Estimator»

2017 Work in progress. Maciej Bendkowski, Olivier Bodini, Sergey Dovgal: «Statistical properties of closed lambda-terms»

2017 ArXiV Preprint. Sergey Dovgal, Vlady Ravelomanana: «Shifting the Phase Transition Threshold for Random Graphs and 2-SAT using Degree Constraints». https://arxiv.org/abs/1704.06683

2016 ArXiV Preprint. Sergey Dovgal: «Towards Model Selection for Local Log-Density Estimation. Fisher and Wilks-type theorems». https://arxiv.org/abs/1607.00806

2015 ITAS Conference. Sergey Dovgal, Vladimir Spokoiny: «Fisher and Wilks Theorems for Likelihood-Based Density Estimation». http://itas2015.iitp.ru/en/statistics.html

Honors & Awards

Jul. 2009, Jul. 2010 **International Mathematical Olympiad** – Silver and Bronze Medals
April 2011 **Student Olympiad on Discrete Mathematics at MIPT** – Winner's Certificate
February 2012 **Ivanilov Sholarship** – Faculty Scholarship for Distinguished Students
May 2012 **All-Russian Student Mathematical Olympiad at MIPT** – 3-rd place.
March 2013, 2014 **Intercollegiate Programming Olympiad in Vologda** – 4-th and 8-th place.

Thematic Workshops and Research Schools Attended

2017 Barcelona, Discrete Random Structures and Beyond
2017 Goteburg, Computational Logic and Applications
2017 Marseille, Journées ALEA 2017
2017 Bordeaux, Journées Combinatoires 2017
2016 Marseille, Mathematical Statistics and Inverse Problems
2015 Sochi, Summer School «**Information Technologies and Systems**»
2015 Sylt, Spring School «**Structural Inference in Statistics**»
2013 Kazan, Summer School on High-Performance Computing
with Applications in Biology and Medicine, **Innopolis University, MIPT**
2012 Dubna, Summer School «**Contemporary Mathematics**»

Teaching. Major Educational Projects.

2011-2015 **LaTeX Lecture Notes for various courses (Complete Course Notes)**:
Differential Equations (two-semester), Quantum Mechanics (two-semester),
Advanced Topics on Discrete Analysis, Foundations of Mathematical Statistics,
Foundations of Ergodic Theory.
2012-2015 School-Lyceum N5, Dolgoprudny. Mathematical Olympiads Corner
Fall 2016 MIPT, Advanced Course on Enumerative Combinatorics
Fall 2014 MIPT, Seminars in Discrete Mathematics
Fall 2014 MIPT, Advanced Topics in Mathematical and Functional Analysis
Spring 2015 MIPT, Seminars in Higher Algebra and Coding Theory
Fall 2015 MIPT, Seminars in Discrete Mathematics
Fall 2015 MIPT, Seminars in Convex Optimization
2012-2014 MIPT, Course in Music Theory and Acoustics [blog] [video]
2013-2014 Summer Ecological School, Mathematical Department.
Mini-courses (4 lectures each) for schoolchildren.
Generating Functions with Application in Combinatorics.
Mathematical Foundations of Cryptography and Computation Complexity.

Languages

Russian: Native
English: Intermediate (IELTS 7: Speaking 6, Reading 9, Writing 6.5, Listening 6.5)
French, German: Basic.