Sergey DovgaL

PERSONAL DATA

PLACE AND DATE OF BIRTH: Belarus | 06 January 1993

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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. Maciej Bendkowski, Olivier Bodini, Sergey Dovgal:

«Statistical properties of closed lambda-terms»

arXiv Preprint. Maciej Bendkowski, Olivier Bodini, Sergey Dovgal: «Polynomial tuning of multiparametric combinatorial samplers». https://arxiv.org/abs/1708.01212

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

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 Proceedings. 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.