P.O. Box 68 (Gustaf Hällströmin katu 2b) FI-00014 University of Helsinki +358 2941 51469

firstname.am.surname'ät'helsinki.fi

Citizenship: Finnish

CURRENT POSITION

Doctoral student, University of Helsinki, Department of Mathematics and Statistics, 1/2015-I am writing an academic dissertation under the supervision of Prof. Antti Kupiainen and Prof. Konstantin Izyurov in the mathematical physics group. My dissertation is about the geometry of random planar maps of the half-plane coupled to Ising model partition functions.

EDUCATION

Doctor of Philosophy (PhD), University of Helsinki, 2015-

Programme: Doctoral Programme of Mathematics and Statistics (DOMAST); *general & subject studies* (60 credits) completed, with GPA 5.0/5.0, including 5 credits pedagogical studies

Master of Science, University of Helsinki, 2014

Major: mathematics; GPA 5.0/5.0; *master's thesis:* "On random planar maps and their scaling limits", grade "Eximia cum laude approbatur" (5/5)

Bachelor of Science, University of Helsinki, 9/2010-4/2013

Major: mathematics; *minors:* theoretical physics, computer science; GPA 5.0/5.0; *bachelor's thesis:* "Interpolation on L^p spaces", grade 5/5

(PRE)PUBLICATIONS

Critical Ising model on random triangulations of the disk: enumeration and local limits (in collaboration with Linxiao Chen, University of Helsinki), 2018, ArXiv preprint, submitted

Ising model on random triangulations of the disk: phase transition (in preparation, with Linxiao Chen), 2019+

TALKS

Ising model on random triangulations of the half-plane, Random Trees and Graphs Summer School, CIRM, 4 July 2019

Critical Ising model on infinite random triangulation of the half-plane, Young Researchers Symposium at ICMP 2018, McGill University, 20 July 2018

Critical Ising model on random triangulations of the disk: enumeration and limits, RGM follow up, Isaac Newton Institute, Cambridge, 13 July 2018

Introduction to two-dimensional random geometry, Students' seminar, Department of Mathematics and Statistics, University of Helsinki, 9 November 2017

P.O. Box 68 (Gustaf Hällströmin katu 2b) FI-00014 University of Helsinki +358 2941 51469

firstname.am.surname'ät'helsinki.fi

Citizenship: Finnish

Critical Ising model on infinite random triangulation of the half-plane, Mathematical physics seminar, University of Geneva, 16 October 2017

Boltzmann triangulations with Ising model on faces, Stochastics and statistics seminar, Department of Mathematics and Systems Analysis, Aalto University, 3 October 2016

Boltzmann triangulations with Ising model on faces, 46th Probability Summer School Saint-Flour, Saint-Flour, 14 July 2016

Boltzmann triangulations with Ising model on faces, Mathematical physics seminar, Department of Mathematics and Statistics, University of Helsinki, 13 April 2016

Introduction to analytic combinatorics, Students' seminar, Department of Mathematics and Statistics, University of Helsinki, 11 February 2016

A bijection between labelled plane trees and rooted and pointed planar quadrangulations, Seminar on stochastic models, Department of Mathematics and Statistics, University of Helsinki, 5 March 2015

POSTER PRESENTATIONS

XIX International Congress on Mathematical Physics (ICMP 2018), Montréal, 23-28 July 2018

RGM follow up, Isaac Newton Institute, 9 – 13 July 2018

A Mini-school on Random Maps and the Gaussian Free Field, ENS Lyon, 15 – 19 May 2017

Workshop on Enumerative Geometry, IHP, 13 – 17 March 2017

Combinatorics and interactions, Introductory school at CIRM, 9 – 13 January 2017

RESEARCH VISITS

Institut Henri Poincaré, Scientist in Residence during the trimester *Combinatorics and Interactions*, 13 January – 31 March 2017

PARTICIPATION IN CONFERENCES AND SCHOOLS

Random Trees and Graphs Summer School, CIRM, 1 – 5 July 2019

Random maps and matrices from a geometric perspective, ENS Lyon, 20 – 24 May 2019

États de la recherche SMF: Statistical mechanics, IHP, 10-14 December 2018

FI-00014 University of Helsinki +358 2941 51469

firstname.am.surname'ät'helsinki.fi

Citizenship: Finnish

Celebration of Mathematics: 150 Years of the Finnish Mathematical Society, University of Helsinki, 30 November – 2 December 2018

XIX International Congress on Mathematical Physics (ICMP 2018) and Young Researchers Symposium, Montréal, 20-28 July 2018

RGM follow up, Isaac Newton Institute, 9 -13 July 2018

Dynamics on Random Graphs and Random Maps, CIRM, 23 -27 October 2017

A Mini-school on Random Maps and the Gaussian Free Field, ENS Lyon, 15-19 May 2017

Combinatorics and interactions, CIRM & IHP, 9 January – 31 March 2017

Quantum integrable systems, conformal field theories and stochastic processes, Institut d'Études Scientifiques de Cargèse, 12 -23 September 2016

The 26th Jyväskylä Summer School, University of Jyväskylä, 8 -19 August 2016

46th Probability Summer School Saint-Flour, Saint-Flour, 3 -15 July 2016

The Helsinki Workshop on Quantum Gravity, University of Helsinki, 1 -3 June 2016

Random processes and random media: a conference on the occasion of Alain-Sol Sznitman's **60**th birthday, ETH Zürich, 11 -15 January 2016

Meeting for young mathematicians in Finland, Aalto University, 26 -28 August 2015

Summer school: Stochastic processes and random matrices, École de Physique des Houches, 6 - 31 July 2015

20th Itzykson conference: Random Surfaces and Random Geometry, CEA Saclay, 10 -12 June 2015

Saint Petersburg – Helsinki Math Colloquium, Chebychev Laboratory at St. Petersburg State University, 6 -7 May 2015

Mathematics meets physics on the occasion of Antti Kupiainen's 60th birthday, University of Helsinki, 24 -27 June 2014

TEACHING

Probability theory I-II, Department of Mathematics and Statistics, University of Helsinki, fall 2018 (teaching assistant & substitute lecturer)

Stochastic methods, Department of Mathematics and Statistics, University of Helsinki, fall 2017 (teaching assistant & substitute lecturer)

P.O. Box 68 (Gustaf Hällströmin katu 2b) FI-00014 University of Helsinki +358 2941 51469

firstname.am.surname'ät'helsinki.fi

Citizenship: Finnish

Stochastic methods in physics and biology, Department of Mathematics and Statistics, University of Helsinki, spring 2016 (teaching assistant)

Linear algebra and differential equations, Department of Mathematics and Systems Analysis, Aalto University, fall 2013 (teaching assistant)

Elementary course in discrete mathematics, Department of Mathematics and Systems Analysis, Aalto University, fall 2013 (teaching assistant)

THESIS SUPERVISION

Marcus Leivo, bachelor's thesis Counting binary trees, spring 2017

LANGUAGE SKILLS

Finnish: mother tongue English: excellent German: fluent Swedish: fluent

French: basics

IT SKILLS

Programming: Matlab, Java

Mathematical writing: LaTeX **Computer algebra:** Maple

COMPETITION SUCCESS, AWARDS AND GRANTS

Competitive grant of Mathematics and Science Fund of University of Helsinki for undergraduate students, 2013 VII Estonian-Finnish Olympiad in Physics, contestant, 2009

National physics competition (high school), contestant in the finals (top 20), 2009

POSITIONS OF TRUST

Deputy member of the Department Council, Department of Mathematics and Statistics, University of Helsinki, 2014

OTHER ACADEMIC EXPERIENCE

Intern, Finnish Meteorological Institute, 6-8/2013 (3 months)

I completed a full-time internship in the Wave and Sea Level Group of the Marine Research Unit. I participated in a project on the interaction of carbon dioxide between the sea and the atmosphere. My main task was to collect, control and combine the weather data of the journey with turbulence measurements made in the ship using Matlab.