RONAN MEMIN

PERSONNAL DATA

Birth date: 26 Sept. 1995
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EDUCATION AND DIPLOMAS

Post doctoral position with Michel Pain
IMT, Toulouse, funded by the Labex CIMI
2023-2025

PDH thesis under the supervision of Alice Guionnet, « Analyse de certains modèles intégrables grâce aux matrices aléatoires/Analysis of some integrable models thanks to random matrices »
ENS Lyon
2019-2023

Research Master in probability, internship under the supervision of Alice Guionnet
ENS Rennes – Université de Rennes 1
2018-2019

Mathematics Agrégation
Normalien at ENS Rennes
2017-2018

L3-M2 (undergraduate studies)
Normalien at ENS Rennes
2015-2019

MPSI, MP* (preparatory class for scientific studies)
Lycée Rabelais, St Brieuc 2013-2014
Lycée Chateaubriand, Rennes 2014-2015

PUBLICATIONS

CLT for real beta-ensembles at high temperature, with Charlie Dworaczek Guera, preprint (arXiv:1310.7835), in revision in Electronic Journal of Probability

CLT for beta ensembles at high temperature, and for integrable systems : a transfer operator approach, with Guido Mazzuca, preprint (arXiv:2304.10323), accepted for publication in Annales de l'Institut Henri Poincaré, probabilités et statistiques.

Large deviations for Ablowitz-Ladik lattice, and the Schur Flow, with Guido Mazzuca, Electronic Journal of Probability, 28: 1-29, 2023

Large deviations for generalized Gibbs ensembles of the classical Toda chain, with Alice Guionnet, Electronic Journal of Probability, 27: 1-29, 2022

PhD THESIS

Analysis of certain integrable models via random matrix theory, under the supervision of Alice Guionnet, defended on the 09/22/2023 (https://theses.hal.science/THESES-ENS-LYON/tel-04236939v1).

CONFERENCES

The multiple facets of the six-vertex model
From 10/31/2022 to 11/04/2022
ENS Lyon, Lyon, France

GDR MEGA autumn School
From 10/10/2022 to 10/14/2022
Aussois, France

Mini-school on Universality in mathematical physics: random geometries, field theories and hydrodynamics
From 09/26/2022 to 09/30/2022
ENS Lyon, Lyon, France

50th Probability Summer School
From 07/11/2022 to 07/23/2022
Saint Flour, France

Workshop Randomness, Integrability and Universality
From 04/26/2022 to 04/29/2022
GGI Institute, Florence, Italy

School and Workshop on Random Matrix Theory and Point Processes
From 09/23/2019 to 09/27/2019
ICTP, Trieste, Italy

TALKS

CLT for the Lax matrix of some integrable systems, and for high temperature beta ensembles,
02/09/24, MEGA seminar, IMT, Toulouse

Analysis of certain integrable models via random matrix theory,
10/17/23, probability seminar, IMT, Toulouse

PhD defense : Analysis of certain integrable models via random matrix theory,
22/09/23, PhD defense, ENS Lyon, Lyon

CLT for beta ensembles at high temperature, and for integrable systems,
03/31/23, probability working group, Université de Lille

CLT for beta ensembles at high temperature, and for integrable systems,
03/23/23, random matrices working group, ENS Lyon, Lyon

Large deviations for Gibbs ensembles of the classical Toda Chain,
11/29/22, at the probability seminar, CMI, Marseille

Nonasymptotic random matrix theory,
11/24/22, at the working group of probability, ENS Lyon, Lyon
The working group focused on the mini course given by Ramon Van Handel at the 50th summer school of St Flour

Large deviations for Gibbs ensembles of the classical Toda Chain,
11/10/22, at the GDR MEGA autumn school, Aussois

Large deviations for Gibbs ensembles of the classical Toda Chain,
04/28/22, at the Workshop Randomness, Integrability and Universality at Galileo Galilei Institute, Florence

Grandes déviations et convergence de la mesure empirique pour un modèle de matrices tridiagonales aléatoires
03/11/21, PHD students seminar, Rennes
arXiv:2103.04858

Almost-additivity of the free energy and estimation for uniform densities
03/05/21, working group large deviations and random matrices, ENS Lyon, Lyon
The working group focused for several weeks on a series of articles by Sylvia Serfaty and collaborators. We presented some aspects of an article by Serfaty and Armstrong.
arXiv:1906.09848v2

TEACHING

Teaching assistant, advanced probability, M1
ENS Lyon, course given by Grégory Miermont
2019-2020 (24h) and 2020-2021 (24h)

Teaching assistant, analysis and PDEs, L3
ENS Lyon, course given by Eric Dumas
2019-2021 (24h) and 2020-2021 (24h)

Interventions in preparation for mathematics agregation, M2
ENS Lyon
2019-2020 (16h), 2020-2021 (16h), 2021-2022 (16h) and 2022-2023 (3h)

Last update : 27 Mar. 2023