Thibaut Lemoine

Born on 10/07/1991 in Beaumont (63). Address: 3, rue de la Marnière, 95280 Jouy-le-Moutier

□+33 (0)607672686 | ► thibaut.lemoine@univ-lille.fr | ↑ https://thibaut-lemoine.github.io/

Education & Professional Experience	
CRISTAL, CNRS & Université de Lille POSTDOC • Mentor: Rémi Bardenet • Subject: determinantal point processes and applications	Villeneuve-d'Ascq (France, 2022 - en cours
IRMA, Université de Strasbourg Postdoc • Mentor: Semyon Klevtsov • Subject: geometric aspects of the quantum Hall effect	Strasbourg (France 2020 - 2022
LPSM, Sorbonne Université PHD IN MATHEMATICS • Title: Asymptotic representation theory and applications to Yang–Mills theory • Advisor: Thierry Lévy (Sorbonne Université)	Paris (France, 2016 - 2020
Sorbonne Université MSc IN MATHEMATICS • Specialization in "probability and random models"	Paris (France, 2014 - 2016
EDHEC Business School BUSINESS SCHOOL DIPLOMA • Specialization in "financial markets"	Lille, Nice (France 2010 - 2014
Papers	
Publications	
2023. Antoine Dahlqvist, Thibaut Lemoine, Large N limit of Yang–Mills partition function faces, to appear in Probability and Mathematical Physics	and Wilson loops on compact sur
2021. Thibaut Lemoine, Large N behaviour of the two-dimensional Yang–Mills partition fu and Computing, 1-22	nction, Combinatorics, Probability
PREPRINTS	
2023. Thibaut Lemoine, Almost flat highest weights and application to Wilson loops on con	npact surfaces, arXiv:2303.11286
2022. Thibaut Lemoine, <i>Determinantal point processes associated with Bergman kernels</i> . arXiv:2211.06955	: construction and limit theorems
2022. Antoine Dahlqvist, Thibaut Lemoine, Large N limit of the Yang–Mills measure on comequations and planar master field, arXiv:2201.05886	pact surfaces II: Makeenko–Migda
In preparation	
Thibaut Lemoine, Rémi Bardenet, Monte Carlo methods on compact complex manifolds us	ing Bergman kernels
Presentations	
2023. Determinantal point processes associated with Bergman kernels: construction and as ical modelling and analysis, Umeå (Sweden)	symptotics. Seminar in mathemat

2023. Boucles de Wilson dans la théorie de Yang-Mills en deux dimensions. Séminaire d'équipe, CRIStAL, Lille (France) 2022. Effet Hall quantique, une approche probabiliste. GDT "processus ponctuels", Laboratoire Painlevé, Lille (France)

- 2022. Grandes déviations de mesures empiriques de mesures de Gibbs sur une surface de Riemann compacte. GDT "Une approche probabiliste des métriques de Kähler–Einstein", IRMA, Strasbourg (France)
- 2022. Large N Limit of Yang-Mills partition function. Spectra/moduli seminar, Durham (UK)
- 2022. The master field on the torus. 14e rencontres du GDR Dynamique Quantique, IMT, Toulouse (France)
- 2021. Introduction aux probabilités non-commutatives. Séminaire de calcul stochastique, IRMA, Strasbourg (France)
- 2020. Noncommutative harmonic analysis of $\mathrm{U}(N)$ and application to 2D Yang–Mills theory. Séminaire d'analyse, IRMA, Strasbourg (France)
- 2020 Asymptotics of two-dimensional Yang–Mills partition function. Bernoulli-IMS One World Symposium (séminaire en ligne)
- 2018. Calcul stochastique libre par rapport au q-mouvement Brownien. GDT "probabilités non-commutatives et chemins rugueux", LPSM, Sorbonne Université, Paris (France)
- 2017. L'algorithme RSK appliqué aux permutations aléatoires. GDT "Combinatorics and random matrix theory", Université Paris 7, Paris (France)

Teaching _____

2019 - 2020	Tutoring in Probability (L3), Sorbonne Université, Paris (France)
2019 - 2020	Tutoring in Probability (1styear), ISUP, Paris (France)
2019 - 2020	Tutoring in General Mathematics (L1), Sorbonne Université, Paris (France)
2016 - 2019	Tutoring in C++ Programming for mathematicians (M1), Sorbonne Université, Paris
	(France)
2016 - 2018	Tutoring in Vector calculus (L2), Polytech' Paris, Paris (France)

Other Activities _____

SCIENTIFIC DUTIES

2022 Conference on quantum Hall effect and topological phases, Co-organization of the conference and making of the website

Strasbourg (France)

EXTRACURRICULAR ACTIVITIES

Since 2015 Volunteer Firefighter, Rank: sergeant

Magny-en-Vexin (France)

SKILLS

Languages: Franch (native), English (fluent), German (read and written)
Computer Science: C++, ŁTFX, Python, Excel/VBA, Matlab/Scilab, Maple