

Curriculum Vitae of Linxiao Chen

Personal details

Last name: **Chen** First name: **Linxiao** Born in **1989**
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Education

2018/05/31 **Ph.D. in Mathematics** (*Title: Random planar maps coupled to spin systems; Supervisors: NICOLAS CURIEN, JÉRÉMIE BOUTTIER*), Université Paris-Saclay, France.
2014 **Master in Mathematics** (*Speciality: Probability and Stochastic Models*), Université Paris VI, France.
2013 **Master in Physics** (*Speciality: Theoretical Physics*), Université Paris VII, France.
2010~2014 *Élève Normalien*, ENS de Paris, France.

Employment

2020/09 **Postdoctoral researcher** (Mentor: WENDELIN WERNER), Department of Mathematics, ETH Zürich, Switzerland.
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2018/06 **Postdoctoral researcher** (Mentor: ANTTI KUPIAINEN), Department of Mathematics and Statistics, University of Helsinki, Finland.
~ 2020/05

Publications

2022/01 *A transfer theorem for multivariate Delta-analytic functions with a power-law singularity.* *arXiv:2201.03539*.
2021/03 *Enumeration of fully parked trees.* *arXiv:2103.15770*.
2020/03 *Ising model on random triangulations of the disk: phase transition*, with J. TURUNEN. *arXiv:2003.09343*.
2018/09 Appendix of *The peeling process on random planar maps coupled to an $O(n)$ loop model* by T. BUDD. *arXiv:1809.02012*.
2018/06 *Critical Ising model on random triangulations of the disk: enumeration and local limits*, with J. TURUNEN. *Comm. Math. Phys.* 374(3):1577–1643, 2020. *arXiv:1806.06668*.
2017/02 *The perimeter cascade in critical Boltzmann quadrangulations decorated by an $O(n)$ loop model*, with N. CURIEN and P. MAILLARD. *Ann. Inst. Henri Poincaré D* 7(4):535–584, 2020. *arXiv:1702.06916*.
2015/02 *Basic properties of the infinite critical-FK random map.* *Ann. Inst. Henri Poincaré D*, 4(3):245–271, 2017. *arXiv:1502.01013*.

Teaching

2021/11 **Mentor** of a master thesis (*Title: Scaling limit of cluster boundary in Ising model on random triangulation*), ETH Zürich, Switzerland.
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2021/02~06 **Mentor** of a bachelor thesis (*Title: An introduction to Analytic Combinatorics with applications in asymptotic probability laws*), ETH Zürich, Switzerland.
2020/10 **Teaching assistant** for the master course *A Medley of Advanced Probability* (2 hours), ETH Zürich, Switzerland.
2019/10 **Lecturer** and coordinator of the undergraduate course *Enumerative Combinatorics* (42 hours), University of Helsinki, Finland.
~ 2020/01

- 2018/01~03 **Teaching assistant** of the master course *Topics in Probability* (22 hours), University of Helsinki, Finland.
- 2014~2017 **Teaching assistant** of the undergraduate courses “*Mathematical Modelisation*” and “*Probability and Statistiques*” (total: 192 hours), Université Paris-Sud, France.

Invited talks

- 2021/10 *Séminaire de probabilités et statistique*, Université d’Angers.
- 2021/10 *International Conference for Chinese Young Probability Scholars*, online
- 2021/09 *Seminar Journée CombiTop@Lyon*, ENS de Lyon.
- 2021/01 *Probability webinar of universities in Beijing* (mini-course online).
- 2020/06 *Probability Victoria Seminar* (online), University of Melbourne.
- 2019/09 *2nd Helsinki–Saint-Petersburg Math Colloquium*, University of Helsinki.
- 2019/07 *Seminar of Analysis*, University of Science and Technology of China.
- 2019/05 *Seminar of Probability*, ENS de Lyon.
- 2018/06 *Random matrices, maps, and gauge theories workshop*, ENS de Lyon.
- 2018/01 *Finnish mathematics days 2018, Mathematical Physics session*, University of Eastern Finland.

Event organisation

- 2022/09~12 **Organiser** of a weekly reading group (online) on the recent advances in *Analytic Combinatorics in Several Variables*.
- 2016~2020 **Co-organiser** of the first 5 sessions of the conference *Les Probabilités de Demain* (the 2020 session held online).
- 2016/04/14 **Co-organiser** of the 18th *Journée Cartes*.

Scientific services

- Referee for** *Communications of Mathematical Physics, Transactions of the American Mathematical Society, Séminaire Lotharingien de Combinatoire (Proceedings of the FPSAC Conference).*

Language skills

- Mother tongue: Chinese.
- Fluent: English, French, Python, TeX.