Curriculum Vitae of Linxiao Chen

Personal details

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

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Employment

2022/09 ∼ now — **Assistant professor**, *Laboratoire Analyse, Géométrie et Applications*, Université Sorbonne Paris Nord, France.

2020/09 ∼ 2022/08 — **Postdoctoral researcher** (Mentor: Wendelin Werner), *Department of Mathematics*, ETH Zürich, Switzerland.

2018/06 ∼ 2020/05 — **Postdoctoral researcher** (Mentor: Antti Kupiainen), *Department of Mathematics and Statistics*, University of Helsinki, Finland.

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.

2013∼2014 — **Master in Mathematics** (*Speciality: Probability and Stochastic Models*), Université Paris VI, France.

2011∼2013 — **Master in Physics** (*Speciality: Theoretical Physics*), Université Paris VII, France.

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. *Comm. Math. Phys.* 2022. *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

2022/09 ∼ now	**Lecturer** of various courses in mathematics, statistics and programming, Université Sorbonne Paris Nord, France.
2021/11 ∼ 2022-03	**Mentor** of a master thesis (*Title: Scaling limit of cluster boundary in Ising model on random triangulation*), ETH Zürich, Switzerland.
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 ∼ 2020/01	**Lecturer** and coordinator of the undergraduate course *Enumerative Combinatorics* (42 hours), University of Helsinki, Finland.
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

2023/06	**Conference *MathSTIC* on combinatorics and probability**, Université Sorbonne Paris Nord.
2022/04	***Probability and combinatorics seminar*** (online), Uppsala University.
2021/10	***Seminar of probability and statistics***, Université d'Angers.
2021/10	***International Conference for Young Chinese 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**Séminaire d'analyse, 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

2021/09∼12	**Organizer** of a weekly reading group (online) on the recent advances in *Analytic Combinatorics in Several Variables*.
2016 ∼ 2020	**Co-organizer** of the first 5 sessions of the conference *Les Probabilités de Demain* (the 2020 session held online).
2016/04/14	**Co-organizer** of the 18th *Journée Cartes*.

Scientific services

Referee for	*Communications of Mathematical Physics*, *Transactions of the American Mathematical Society*, *Séminaire Lotharingien de Combinatoire (Procedings of the FPSAC Conference)*, *Journal of the European Mathematical Society*, *Latin American Journal of Probability and Mathematical Statistics*.