

**Jeanne Boursier**

Born 24 September 1995, La Roche-sur-Yon, France

Columbia University, New York City

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<https://sites.google.com/view/jboursier/>

**CURRICULUM VITAE****APPOINTMENTS**

- |              |   |
|--------------|---|
| 2023–present | Ritt Assistant Professor (postdoctoral position), Columbia University, New York |
| 2022–2023    | Postdoctoral researcher, ENS Lyon (UMPA), ERC Project LDRAM                     |

**EDUCATION**

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|-----------|---|
| 2019–2022 | PhD in Mathematics, Université Paris-Dauphine. Advisor: Djilil Chafaï; co-advisor: Sylvia Serfaty (New York University) |
| 2015–2019 | Élève normalien (supported student), École Normale Supérieure Paris-Saclay, Cachan                                      |

**DEGREES**

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|------|---|
| 2018 | MSc in Mathematics (Probability), Université Pierre et Marie Curie — highest honors |
| 2016 | BSc in Mathematics, École Normale Supérieure Paris-Saclay, Cachan                   |

**GRANTS AND DISTINCTIONS**

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|-----------|--|
| 2023      | PhD Thesis Award “Prix de Thèse Jacques Neveu 2023”  |
| 2021–2024 | Member of the ANR project GaLoPée, “Portrait de phase des gaz avec interactions à longue portée”             |
| 2019      | Three-year PhD fellowship, Fondation CFM pour la Recherche (awarded annually to two students in Mathematics) |

**TEACHING**

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|-------------|--|
| Spring 2026 | Ordinary Differential Equations, Columbia University                           |
| Fall 2025   | Introduction to Modern Analysis II, Columbia University                        |
| Spring 2025 | Honors Math B, Columbia University   |
| Fall 2024   | Ordinary Differential Equations, Columbia University                           |
| Spring 2024 | Calculus 3, Columbia University  |
| Fall 2023   | Ordinary Differential Equations, Columbia University                           |
| 2021–2022   | Teaching assistant in Analysis, Université Paris-Dauphine                      |
| 2020–2021   | Teaching assistant in Optimization (Master’s level), Université Paris-Dauphine |
| 2019–2021   | Teaching assistant in Probability, Université Paris-Dauphine                   |
| 2016–2018   | Oral examiner in Mathematics, Lycée Saint Louis, Paris                         |

**MENTORING**

2021 Co-supervisor (with Clément Berenfeld) of three Master’s students in Mathematics at Université Paris-Dauphine; thesis: “Neural networks as interacting particle systems”

## INVITED TALKS AND SEMINARS

April 2026 Duke Probability seminar  
April 2026 Probability seminar, University of Chicago  
February 2026 Cornell Probability seminar  
December 2025 Applied Mathematics colloquium, Brown University  
December 2025 Mathematics colloquium, Indiana University, Bloomington  
December 2025 Mini-course, conference “Topological phase transitions and localization of random fields,” University of Chile  
April 2025 Probability seminar, NYU Courant  
November 2024 Probability seminar, Princeton University  
October 2024 Temple–UPenn Probability seminar  
October 2024 CRM–ISM Probability seminar, Montreal  
September 2024 Probability seminar, Columbia University  
August 2024 Bernoulli–IMS Congress in Probability and Statistics, session on random matrices and applications  
March 2023 Probability seminar, Université Aix-Marseille  
February 2023 Conference “Hyperuniform structures, rigid point processes and related topics,” Université de Lille  
January 2023 Probability seminar, Université Grenoble Alpes  
January 2023 Working group in stochastic modeling, LPSM, Sorbonne Université  
December 2022 Conference “Coulomb gases and universality,” Institut Henri Poincaré, Paris  
November 2022 Workshop Journées EFI, Université Lyon 1  
September 2022 Working group LDRAM, ENS Lyon  
May 2022 Probability seminar, Université Rennes 1  
April 2022 Séminaire MEGA, Institut Henri Poincaré  
April 2022 Probability seminar, Université Paris-Saclay  
March 2022 Probability seminar “Les probas du vendredi,” LPSM, Sorbonne Université  
January 2022 Working group in probability, Université de Lille  
May 2021 SMAI young researchers project (BOUM, point processes), Université de Paris

## ARTICLES AND PREPRINTS

1. J. Boursier, D. Chafaï, C. Labbé. *Universal cutoff for the Dyson Ornstein–Uhlenbeck process*. *Probability Theory and Related Fields* **185** (2023), no. 1, 449–512.
2. J. Boursier. *Optimal local laws and CLT for the circular long-range Riesz gas*. arXiv:2112.05881 (2021). In revision at *Annals of Probability*.
3. J. Boursier. *Thermodynamic limit and decay of correlations for the circular Riesz gas*. arXiv:2209.00396 (2022). In revision at *Probability and Mathematical Physics*.
4. J. Boursier, A. Guionnet. *Large deviations for the smallest eigenvalue of a deformed GOE with an outlier*. arXiv:2408.09256 (2024). In revision at *Annales Henri Poincaré*.
5. J. Boursier, S. Serfaty. *Dipole formation in the two-component plasma*. arXiv:2410.01025 (2024). In revision at *Communications on Pure and Applied Mathematics*.

6. J. Boursier, S. Serfaty. *Multipole and Berezinskii–Kosterlitz–Thouless transitions in the two-component plasma*. arXiv:2509.09449 (2025).
7. J. Boursier. *The Legendre structure of the TAP complexity for the Ising spin glass*. arXiv:2604.20660 (2026).
8. J. Boursier. *Choosing is losing and the glass problem*. In preparation (2026+).