

# Curriculum Vitæ

Jules Berry – Postdoctoral Researcher

## Personal Information

---

Jules Berry, born August 4, 1996 in La Teste-de-Buch (33), French citizen.

Postdoctoral Researcher in Applied Mathematics at Université Paris-Saclay – CentraleSupélec, France.

**Languages:** French (native), English (fluent)

**Address:** Laboratoire des Signaux et Systèmes (L2S – UMR8506)

Université Paris-Saclay, CNRS, CentraleSupélec

3, Rue Joliot-Curie

91192 Gif sur Yvette cedex, France

**Email:** [jules.berry@centralesupelec.fr](mailto:jules.berry@centralesupelec.fr)

**Website:** <https://jules-berry.github.io>

## Academic Positions

---

Since 11/2025     **Postdoctoral Researcher**, L2S – Université Paris-Saclay – CentraleSupélec, France.  
**Supervisors:** Riccardo Bonalli (L2S – CentraleSupélec) and Laurent Pfeiffer (INRIA).  
**Research topic:** Risk-averse stochastic optimal control.

## Education

---

2022 – 2025     **Ph.D. in Mathematics and their Interactions**, IRMAR – Université de Rennes – INSA Rennes, France.  
**Thesis:** Contributions to the study of second order mean field games: approximation of stable solutions and sticky processes on networks.  
**Defense date:** October 23, 2025 at INSA Rennes.  
**Advisors:** Olivier Ley (IRMAR – INSA Rennes) and Francisco Silva (XLIM – Université de Limoges).  
2020–2022     **Master in Fundamental Mathematics**, Université de Rennes, France, with Highest Honors.  
**Track:** Analysis and Applications.

## (Pre-)Publications

---

- [J4] Berry, J., Ley, O., & Silva, F. J. (2025). [A nonsmooth extension of the Brezzi-Rappaz-Raviart approximation theorem via metric regularity techniques and applications to nonlinear PDEs](#). *Preprint* hal-05136613.
- [J3] Berry, J., & Colantoni, F. (2026). [Sticky diffusions on star graphs: characterization and Itô formula](#). To appear in *Stochastic Processes and their Applications*.
- [J2] Berry, J., & Camilli, F. (2025). [Stationary Mean Field Games on networks with sticky transition conditions](#). *ESAIM: Control, Optimisation and Calculus of Variations*.
- [J1] Berry, J., Ley, O., & Silva, F. J. (2025). [Approximation and perturbations of stable solutions to a stationary mean field game system](#). *Journal de Mathématiques Pures et Appliquées*.

## Talks

---

### Invited Talks

- Sept. 2025     **Durham Symposium on Mean Field Games**, *Approximation of stable solutions to second order mean field game systems*, Durham, United Kingdom.
- Oct. 2024     **ANR COSS Workshop**, *Sticky diffusion processes on networks and corresponding Mean Field Games*, Rennes, France.
- Feb. 2024     **Rennes-Tours Workshop**, *Approximation of stable solutions to a stationary mean field game system*, Rennes, France.

## Communications in Seminars

- Dec. 2024 **MOD Seminar**, *Sticky diffusion processes on networks and corresponding Mean Field Games*, Université de Limoges, Limoges, France.
- April 2024 **Seminario di Modellistica Differenziale Numerica**, *Approximation of stable solutions to second order mean field game systems*, La Sapienza Università di Roma, Rome, Italy.

## Other Communications

- March 2025 **European Conference on Numerical Mathematics and Advanced Applications (ENUMATH)**, *Approximation of stable solutions to second order mean field game systems*, Heidelberg, Germany.
- June 2024 **Summer School on Machine Learning and Optimal Control – Poster Session**, *Approximation of non-differentiable nonlinear problems*, Gaeta, Italy.
- March 2024 **SMAI MODE Conference – Poster Session**, *Approximation of stable solutions to a stationary mean field game system*, Lyon, France.
- Jan. 2024 **3rd International Conference on Variational Analysis and Optimization – In Honor of Boris Mordukhovich**, *A theorem of Brezzi, Rappaz, and Raviart from the point of view of variational analysis*, Santiago, Chile.
- Jan. 2024 **Conference on Numerical methods for optimal transport problems, mean field games, and multi-agent dynamics**, *Approximation of stable solutions to a stationary MFG system*, Valparaíso, Chile.

## Teaching

---

- 2022–2025 **Analysis 3**, INSA Rennes, Tutorial sessions (48h/year), Undergraduate level (2nd year).  
Topics: improper integrals, numerical series, power series, Fourier series, differential calculus.
- Analysis Tools for Engineering**, INSA Rennes, Tutorial sessions (10h/year), Undergraduate level (3rd year).  
Topics: Lebesgue integrals, Fourier transform, complex analysis.

## Academic Supervision

---

### Master's Students

- Nov.–Dec. 2024 **Angelina Jammart**, Master's student seminar, Université de Rennes.  
Co-supervised with Othmane Jerhaoui (IRMAR – INSA Rennes).  
Topic: Introduction to viscosity solutions for Hamilton-Jacobi equations.

## Funding

---

- 2025 **SMAI BOUM**, Funding for a week of collaborative research at CIRM.  
Project: Comparison of macroscopic models for crowd motion.  
In collaboration with Théo Girard (Univ. Tours) and Florian Peru (Univ. Franche-Comté).

## Awards

---

- 2024 **Poster Award**: First prize ex-aequo, SMAI MODE Conference, Lyon.

## Research Visits

---

- March–May 2024 **Università di Roma la Sapienza**, invited by Fabio Camilli, 3 months.
- 2022–2025 **Université de Limoges**, invited by Francisco Silva, 6 one-week visits.

## Institutional Activities

---

- 2024–Present **Reviewer** for *J. Math. Anal. Appl.* (1), *NoDEA* (1), *Electron. J. Probab.* (1).

*Last updated November 12, 2025*