

Jules Berry

Education

- October 2022 – Present **PhD student in Applied Mathematics**, *University of Rennes – INSA Rennes*, Rennes, France
Supervised by : Olivier Ley (INSA Rennes) - Francisco Silva (University of Limoges).
- 2021–2022 **Master 2 in Fundamental Mathematics**, *Analysis & Numerics Track*, University of Rennes 1
- 2020–2022 **Master's degree in Fundamental Mathematics**, *University of Rennes 1*, Rennes, France, with Highest Honours
- 2017–2020 **Bachelor's degree in mathematics**, *University of Lyon 1*, Lyon, France, with Honours
- 2015–2017 **First Cycle**, *INSA Lyon*, Lyon, France

Internships

- March-June 2022 **Research internship**, *IRMAR – INSA Rennes*, Rennes, France
Subject : Mean Field Games on Networks.
Supervised by : Olivier Ley (INSA Rennes) - Francisco Silva (University of Limoges).
- June-July 2021 **Research internship**, *INRIA Rennes*, Rennes, France, SIMSMART team
Subject : Generalization of screening methods to quadratic programming problems.
Supervised by : Cédric Herzet (INRIA Rennes).

(Pre-)Publications

1. J. Berry and F. Camilli. Stationary mean field games on networks with sticky transition conditions. *arXiv preprint arXiv:2406.19739*, 2024
2. J. Berry, O. Ley, and F. J. Silva. Approximation and perturbations of stable solutions to a stationary mean field game system. *arXiv preprint arXiv:2402.16377*, 2024

Talks

- June 2024 **Summer School on Machine Learning and Optimal Control, Poster session**, *Approximation of non-differentiable nonlinear problems*, Gaeta, Italy
- April 2024 **Seminario di Modellistica Differenziale Numerica, La Sapienza Università di Roma**, *Approximation of stable solutions to second order mean field game systems*, Rome, Italy

- March 2024 **SMAI MODE days, Poster session**, *Approximation of stable solutions to a stationary mean field game system*, Lyon, France
- January 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
- January 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*, Valparaiso, Chile

Teaching

- 2023-2024 **Analyse 3**, INSA Rennes, Exercise Sessions (48h)
- 2023-2024 **Outils d'analyse pour l'ingénieur**, INSA Rennes, Exercise Sessions (10h)
- 2022-2023 **Analyse 3**, INSA Rennes, Exercise Sessions (52h)
- 2022-2023 **Outils d'analyse pour l'ingénieur**, INSA Rennes, Exercise Sessions (10h)

Awards

- 2024 **Poster Prize**, SMAI MODE days, Lyon

Visits

- March-May 2024 **Università di Roma la Sapienza**, *Invited by Fabio Camilli*

Languages

- French Mother Tongue
- English Proficient