

Positions

- Sept. 2024 – **Maître de conférences**, *LAGA*, Université Sorbonne Paris Nord
today
Oct. 2023– **Postdoc**, *FMJH Fellowship*, Ecole Polytechnique (CMLS)
Aug. 2024

Education

- 2020 – 2023 **Ph.D.**, *Institut Fourier*, Université Grenoble Alpes
2020 **ENS Diploma**, *Ecole Normale Supérieure of Paris (Ulm)*
2018 – 2019 **Master in Mathematics (2nd year)**, *Paris-Sud University/ENS (Ulm)*
Master “Arithmetic, analysis and geometry”
2017 – 2018 **Master student in Mathematics (1st year)**, *Ecole Normale Supérieure of Paris (Ulm)*
2017 **Bachelor in Mathematics**, *Ecole Normale Supérieure of Paris (Ulm)*
2014 – 2016 **Preparatory course ‘MPSI/MP’**, *Lycée Sainte-Geneviève (Versailles)*
Two-year intensive course in mathematics and physics preparing for the competitive entrance examinations to the ENS / ‘Grandes Ecoles’ (highly-selective graduate schools)
2014 **French Baccalauréat**
Scientific section

Ph.D. thesis

Title: The Teukolsky equation on subextremal Kerr spacetimes

Advisor: Dietrich Häfner

Referees: Peter Hintz, Cécile Huneau

Jury: Olivier Graf, Dietrich Häfner, Cécile Huneau, Alain Joye, Jean-Philippe Nicolas, Jérémie Szeftel, Michał Wrochna

Research Interests

Mathematical general relativity, Lorentzian geometry, partial differential equations on manifolds, spectral theory, microlocal and semiclassical analysis.

Conference and seminar talks

- June 2024 **Gravitational Physics and its mathematical analysis**, *Les Diablerets*
April 2024 **Quantum and classical fields interacting with geometry**, *IHP*, Paris
April 2024 **Seminar Topics in general relativity**, *Universität Münster*
February 2024 **Recent advances in black holes mathematics in Grenoble**, *Institut Fourier*, Grenoble
January 2024 **Sanya waves conference**, *TSIMF*, Sanya
December 2023 **Séminaire Laurent Schwartz**, *CMLS-IHES*, Palaiseau
November 2023 **Séminaire EDP**, *IRMAR*, Rennes
July 2023 **Thematic program: Spectral Theory and Mathematical Relativity**, *ESI*, Vienna
May 2023 **Seminar on mathematical General relativity**, *BIMSA*, Beijing
May 2023 **Central European Relativity Seminar**, *Stockholm*

- March 2023 **Séminaire de relativité générale**, *laboratoire Jacques-Louis-Lions*, Paris
 March 2023 **Séminaire d'analyse et EDP**, *Cergy Paris Université*, Cergy
 January 2023 **Séminaire de physique mathématique**, *Institut Fourier*, Grenoble
 May 2022 **Seminar of the Ph.D students**, *IMB*, Dijon
 October 2021 **Ph.D days**, *Institut Fourier*, Grenoble

Publications

- 2024 Pascal Millet, “*Geometric background for the Teukolsky equation revisited.*”, *Rev. Math. Phys.*
 2021 Pascal Millet, “*The Goursat problem at the horizons for the Klein-Gordon equation on the De Sitter-Kerr metric.*”, *J. Hyperbolic Differential Equations*
 2020 Jérôme Gilleron, Thierry Goudon, Frédéric Lagoutière, Hugo Martin, Benjamin Mauroy, Pascal Millet, Magali Ribot and Cristina Vaghi, “*Modeling and analysis of adipocytes dynamic with a differentiation process.*”, *ESAIM: Proceedings and Surveys*

Preprints

- 2023 Pascal Millet, “*Optimal decay for solutions of the Teukolsky equation on the Kerr metric for the full subextremal range $|a| < M$* ”, <https://arxiv.org/pdf/2302.06946.pdf>, [Manuscript submitted for publication]

Conference proceedings

- 2024 Pascal Millet, *Leading-order term expansion for the Teukolsky equation on subextremal Kerr black holes*, Séminaire Laurent Schwartz - EDP et applications, Exposé n°7