

# Hugo EULRY

UMPA, ENS Lyon  
✉ hugo.eulry@ens-lyon.fr

## Current position

**Postdoctoral researcher,**  
*UMPA, ENS Lyon.*

2024 - ...

## Education

**PhD in Mathematics,** 2021 - 2024  
*University of Rennes, Anderson Stochastic quantization and paracontrolled calculus : stochastic PDEs in singular environments..*

**Masters degree in Pure Mathematics,** 2018 - 2021  
*University of Rennes.*

**Agrégation de mathématiques,** 2019 - 2020  
*ENS Rennes, ranked 32nd.*

**Concours cycle master mathématiques,** 2019  
*ENS Rennes, ranked 3rd.*

**Magistère de mathématiques,** 2017 - 2021  
*ENS Rennes.*

**CPGE : MPSI/MP\*,** 2015 - 2017  
*Lycée Claude Gellée (Epinal).*

## Research

### Papers

**Variational methods for some singular stochastic elliptic PDEs,** with I. Bailleul, and T. Robert, to appear in Annales de la Faculté des Sciences de Toulouse, arXiv:2202.09628.

**Anderson stochastic quantization equation,** with A. Mouzard and T. Robert, arXiv:2401.12742 .

**Non-local quasilinear singular SPDEs,** with I. Bailleul, arXiv:2405.18057 .

### Talks

**Nicolas Perkowski's team seminar,** January 2024  
*Freie Universität (Berlin).*

**Landau seminar,** October 2023  
*IRMAR (Rennes).*

**ANR Smooth Workshop,** June 2023  
*Institut Elie Cartan de Lorraine (Nancy).*

**Nicolas Perkowski's team seminar,** October 2022  
*Freie Universität (Berlin).*

**"Rough paths, stochastic partial differential equations and related topics" seminar,** May 2022  
*Technische Universität (Berlin).*

## Conferences and workshops

<b>Turbulent e-s workshop,</b> <i>Ecole Polytechnique.</i>	<b>May 2024</b>
<b>ANR Smooth workshop,</b> <i>Institut Elie Cartan de Lorraine (Nancy).</i>	<b>October 2023</b>
<b>CIME summer school Statistical Mechanics and Stochastic PDEs,</b> <i>Cetraro (Italy).</i>	<b>September 2023</b>
<b>SPDEvent II,</b> <i>Universität Bielefeld.</i>	<b>July 2023</b>
<b>GDR TRAG workshop,</b> <i>Paris-Dauphine University.</i>	<b>June 2023</b>
<b>GDR TRAG workshop,</b> <i>Paris-Nanterre University.</i>	<b>June 2022</b>
<b>Young TRAG workshop,</b> <i>IHP (Paris).</i>	<b>December 2021</b>
<b>Higher Structures Emerging from Renormalisation,</b> <i>Erwin Schrödinger Institut (Vienna).</i>	<b>November 2021</b>

## Stays and internships

<b>Research stay,</b> <i>Freie Universität (Berlin), research stay among Nicolas Perkowski's team.</i>	<b>Fall 2022</b>
<b>Master internship,</b> <i>IRMAR (Rennes), Anderson operator and topological methods, supervised by Ismaël Bailleul and Tristan Robert.</i>	<b>Spring 2021</b>
<b>Master internship,</b> <i>McGill University (Montreal), Nodal domains for the Laplace eigenfunctions, supervised by Suresh Eswarathasan and Dmitry Jakobson.</i>	<b>Summer 2019</b>
<b>Bachelor internship,</b> <i>Institut Elie Cartan de Lorraine (Nancy), Introduction to elliptic and hyperbolic inverse problems, supervised by David Dos Santos Ferreira.</i>	<b>Summer 2018</b>

## Teaching

<b>Advanced analysis,</b> <i>21.5h TD, M1 ENS Rennes.</i>	<b>2023-2024</b>
<b>Partial differential equations,</b> <i>24h TD, M1 ENS Rennes.</i>	<b>2021-2023</b>
<b>Compléments de cours pour l'agrégation externe,</b> <i>"Etude des intégrales à paramètres, espace de Schwartz et théorème de Paley-Wiener", University of Rennes and ENS Rennes.</i>	<b>2022-2024</b>
<b>Compléments de cours pour l'agrégation externe,</b> <i>"Réduction de Jordan, décomposition de Dunford, exponentielle et calcul fonctionnel", University of Rennes and ENS Rennes.</i>	<b>2021-2022</b>

<b>Oraux blancs agrégation externe,</b> <i>Leçons et modélisation options A et B, ENS Rennes.</i>	<b>2021-2024</b>
<b>Lectures dirigées,</b> <i>"Quelques méthodes classiques pour les EDP elliptiques", L3 ENS Rennes.</i>	<b>2021-2024</b>