

## CNRS researcher

Laboratoire PHENIX (Physical Chemistry of Electrolytes and Interfacial Nanosystems)  
Sorbonne Université – 4 place Jussieu – 75005 Paris

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Personal webpage : <https://pierreillien.github.io/>

## Research interests and keywords

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nonequilibrium statistical physics, theory and modelling of soft and active matter, tracer diffusion in complex media, stochastic processes, Brownian dynamics simulations, low Reynolds number hydrodynamics

## Education

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- 2022            **Sorbonne Université**, Habilitation thesis
- 2012 – 2015    **Université Pierre-et-Marie-Curie**, PhD thesis  
*Fluctuations and correlations of a driven tracer in a hardcore lattice gas* (supervision : O. Bénichou)
- 2009 – 2013    **École Normale Supérieure**, Paris  
Master in fundamental physics, specialization in statistical physics and soft matter
- 2007 – 2009    **Classes préparatoires** (intensive training in maths, physics, chemistry,  
Lycée Saint-Louis, Paris)

## Academic positions

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- 01/2019 – présent    **Laboratoire PHENIX, CNRS/Sorbonne Université, Paris**  
CNRS researcher
- 09/2017 – 12/2018    **ESPCI Paris, Laboratoire Gulliver**  
Postdoctoral researcher, group of Olivier Dauchot
- 07/2017 – 09/2017    **Max Planck Institute for the Physics of Complex Systems, Dresden**  
Visiting researcher
- 09/2015 – 06/2017    **University of Oxford, Rudolf Peierls Centre for Theoretical Physics**  
Postdoctoral researcher, group of Ramin Golestanian

## Teaching

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- 2018 – 2023            **ESPCI Paris** – Mathematics for physicists (tutorials)
- 2021                    **Chimie Paris** – Numerical methods (tutorials)
- 2016 – 2017            **University of Oxford** – Nonequilibrium statistical physics (tutorials)
- 2013 – 2015            **Université Pierre-et-Marie-Curie** – Thermodynamics, electrodynamics

## **Administrative service**

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2021 – 2025                      Elected member of Comité National du CNRS

## **Editorial activities**

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2024 – présent                      Editorial Board Member for *New Journal of Physics*

## **Funding**

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2025 – 2029                      ANR JCJC, TraNonEq project (173k€)

2018 – 2019                      PRESTIGE fellowship (15k€)

## **Supervision of PhD students**

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Current PhD students: Jacques Fries (since 2022), Léa Beaulés (since 2023), Timothée Gautry (since 2024)

Past PhD students: Jeanne Decayeux (2019-2022), Pierre Rizkallah (2020-2023)

Interns: Bastien Niau (L3, 2020), Jimin Wu (M2, 2020), Pierre Rizkallah (M2, 2020), Anthony Benois (M1, 2022), Pierre Champagnac (M2, 2024), Timothée Gautry (M2, 2024)

## **Scientific production**

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Full list of publications available on my [personal webpage](#).