



## ANR Project Conviviality - Call for post-doc applications

The ANR project Conviviality (Convergence and Interactions via Analysis and Probability) is hiring a post-doctoral researcher, for a two year contract starting in September 2024 or later. The selected post-doc will join the Laboratoire Jacques Louis Lions, and be based in the Université Paris Cité campus Grands Moulins, in the 13th arrondissement of Paris. Applications are welcome and should be sent at the email address [mfathi@lpsm.paris](mailto:mfathi@lpsm.paris) by February 25th, 2024. The selection will be done by a committee internal to the project in early March, and could include interviews for shortlisted candidates. The first ranked applicant will be contacted with a post-doc offer soon after.

- Research topics: The project is organized around the interaction between probability theory and analysis of partial differential equations, with a particular focus on the use of functional inequalities as a structuring tool, to solve open problems in applied mathematics. Topics of particular interest include long-time behavior of stochastic processes and evolution equations, analysis of mean-field dynamics, functional inequalities and their stability, as well as the analysis of numerical algorithms. More generally, young researchers interested in working on topics at the boundary between probability and analysis are encouraged to apply. General information on the project, including the list of participating researchers, can be found [here](#).
- Duration: the post-doctoral contract can be established for a duration of up to 24 months. The expected starting date can be September 1st, 2024 or later. Candidates preferring a different date and/or a shorter duration are encouraged to mention this in their application. The post-doc offer will include the duration which is proposed to the candidate.
- Eligibility: holding a PhD at the starting date of the contract, obtained no more than 4 years before.
- Salary: salary will be adjusted to the experience and to the selected researcher. For recent PhDs, the gross monthly salary will be of approximately 3000 euros. <sup>1</sup>
- Teaching duties: the position comes with no teaching load. The mathematics department in Université Paris Cité is always in need of teachers for undergraduate exercise classes, and postdocs can apply for teaching assignments. Such a teaching is paid extra and is fully optional. Classes are usually given in French.
- Research funds: the successful applicant will be entitled to use research funds from this same project for visits, invitations, and research-related expenses. A laptop can also be bought with research funds and provided.
- Application: please send by email a CV, a list of publications, a research statement, and a cover letter. The cover letter should contain the proposed dates for the postdoctoral contract and the contact details of two scholars who could be contacted for reference purposes, if needed. Applicants seeking collaboration with one or several specific members of the project (whose list can be found [here](#)) are encouraged to mention the names in the cover letter.

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<sup>1</sup> A Gross salary of 3000 euros/month should give a "net" salary of 2450 euros approx, where net means the standard net notion in France : after social contributions, before income tax. The income tax, whose amount strongly depends on the family situation of the employee and ranges from 0% to 8% approx on salaries of this order of magnitude, is directly deducted from the salary, and is then adjusted after the tax declaration which is done in May of the year  $n + 1$  for the income of the year  $n$ .