

Postdoctoral position in Linear PDE and Harmonic Analysis (FFCLRP, University of São Paulo, Brazil)

Institution: Faculty of Philosophy, Sciences and Letters at Ribeirão Preto

Application deadline: **February 20, 2022**

Position type: 12+12 months post-doctoral position

City: Ribeirão Preto (São Paulo state)

Supervisor: [Tiago Picon](mailto:picon@ffclrp.usp.br) (picon@ffclrp.usp.br)

Support agency: São Paulo Research Foundation - Fapesp

Salary: R\$ 7.373,10 (BRL money)

Result announcement: February 25, 2022, by e-mail.

A postdoctoral scholar position in Mathematics is available at the Department of Computing and Mathematics (DCM) at Faculty of Philosophy, Sciences and Letters at Ribeirão Preto (FFCLRP) of University of São Paulo (USP) in Ribeirão Preto. The research activity is related to the ongoing project "[A priori estimates for elliptic operators and applications](#)" - Research Grants - Young Investigators Grants - Phase II - 18/15484-7 with the goal of studying general properties (*a priori* estimates, solvability and regularity) associated to elliptic and canceling linear differential operators and related problems.

Post-doctoral fellowships are granted for 12+12 months, with start data around March and April 2022; the (full) duration of the project is limited until April 30, 2024;

The post-doctoral research will focus on many questions regarding *a priori* estimates, solvability and regularity associated to elliptic and canceling linear differential operators and related topics in Harmonic Analysis and Linear PDEs (weighted estimates, fractional integral estimates, pseudo differential operators and Hardy spaces) and applications (div-curl estimates, elliptic complexes and operators associated to system of complex vector fields):

Candidates should have a Ph.D. in Mathematics or Applied Mathematics and a strong background in Harmonic Analysis and Linear Partial Differential Equations.

To apply, it is necessary send the following documents by e-mail to Prof. Tiago Picon (picon@ffclrp.usp.br):

1. Full curriculum vitae as a PDF (Portable Document Format) file with the list of publications identified by DOI;
2. Diploma/documents confirming the PhD degree;
3. Cover letter indicating motivation, current and future research interests, along with a two-page research proposal;
4. Two letters of recommendation (to be sent separately).

Applications are due no later than February 20, 2022 and the start date will depend on the approval of the São Paulo Research Foundation (FAPESP); the application is open to candidates of any nationalities. The post-doctoral fellowship includes a tax free monthly stipend of R\$ 7.373,10 (BRL money) and research contingency funds (15% of the annual value of the fellowship, each year), intended for use in activities strictly related to the fellowship research project. The announcement of result will be sent by email on February 25, 2022. The approved candidate will have 5 days to confirm or decline the position.

More information about the postdoctoral fellowship can be obtained at: <http://www.fapesp.br/en/postdoc>