



Call for Postdoctoral Research Fellow

The Brazil Office of Harvard University's David Rockefeller Center for Latin American Studies (*Associação David Rockefeller Center da Universidade de Harvard*) is pleased to invite applications for a postdoctoral research fellowship position.

The postdoctoral research fellow will conduct research on various theoretical and practical aspects of responsible machine learning (including fairness, privacy, and generalization), with emphasis on use cases relevant to Brazil. Research activities will include literature review, mathematical modeling and analysis, programming, manuscript writing, and developing and maintaining open-source repositories that may result from the research.

The fellowship program will last for 12 months. Extension for an additional 12-month period is possible upon available funding and satisfactory performance. Benefits include a monthly scholarship of R\$8.479,20, paid directly by the *Associação David Rockefeller Center da Universidade de Harvard*.

The Fellow will be mentored by a Harvard faculty at the John A. Paulson School of Engineering and Applied Sciences and may maintain an affiliate status with a university in Brazil for the duration of the fellowship. Engagement with Brazilian institutions is highly encouraged.

The successful applicant will work on new methodologies for developing fair and private machine learning algorithms and will directly collaborate with a research team with expertise in statistics, machine learning, information theory, and optimization.

Candidates must have:

- ✓ A PhD degree in Computer Science, Engineering, Statistics, Mathematics, or related fields.
- ✓ Experience in developing and benchmarking machine learning models in programming languages such as Python, PyTorch, Julia, and/or R.
- ✓ Strong mathematical background in topics related to machine learning (optimization, probability theory, statistical learning theory, etc.).
- ✓ Proficiency in English (writing and speaking).
- ✓ Candidates must be based in Brazil.

Additional qualifications not necessary but welcome:

- ✓ Fair machine learning.
- ✓ Information theory.

Application material:

- ✓ CV (Maximum 5 pages, including education, appointments, honors, publications, and funding. We will not accept a Lattes link).
- ✓ Three academic referees (name, affiliation, and institutional e-mail).
- ✓ Two representative publications in English.

Applications are now open and will close on August 15th, 2022. The position can be filled on a rolling basis. Submissions should be made through [this Harvard Qualtrics form](#). Further queries should be sent to timothy_linden@harvard.edu