



Call for Ph.D. applications in AI applied in Finance University of Campinas (Unicamp)

Would you like to help build the future of Mobile AI in a research project with a leading mobile industry company?

In this position, your challenge will be to develop algorithms capable of processing multimodal information from finance, networks, and mobile devices (such as user context, audio, images, text, and sensor signals) to deliver an inclusive, fairer, and transparent decision-making process of credit scoring.

You will become a part of the H.IAAC ([Hub de Inteligência Artificial e Arquiteturas Cognitivas](#)) team at the University of Campinas (Unicamp). H.IAAC aims to develop research to expand the cognitive and decision-making capacity of mobile devices, such as tablets and cell phones, advanced devices in the lives of users. The AI in the Finance front aims to use mobile and transactional data to advance the state of art credit scoring and other financial services toward fairer, transparent, and inclusive decisions.

Researchers in this position will be strongly encouraged to publish their results in top scientific journals and international conferences and will have the university's full support to generate patents.

What are you going to do?

Researchers in this position is expected to:

- show independence to conduct innovative and high-impact scientific projects in the area of artificial intelligence, including using, designing, evaluating, and describing novel algorithms that can deal with financial data;
- evaluate the algorithms in experimental scenarios;
- manage project assignments;
- publish and present research results at high-impact international conferences, workshops, and journals;
- collaborate with other graduate students and help supervise undergraduate students in partnership with the professors of the university;
- contribute to teaching activities, such as discussion sessions, lectures, and lab activities;
- disseminate research results for the non-specialized audience, for example, in lectures and attending outreach activities aimed at the general public (e. g., events, trade fairs, etc.)

What do we require?

- A **scientific degree** in computer science, computer engineering, statistics, applied mathematics, and related fields.
- An **M.S. degree** in Artificial Intelligence, Machine Learning, Statistics, or a closely related field. Applicants with a solid scientific background (published papers) might apply for a direct Ph.D. without an M.S. degree.
- Some scientific and mathematical background in artificial intelligence.
- Familiarity and interests in models and data for Finance are a plus.
- Eagerness to tackle complex scientific problems.
- Strong programming skills, e.g., in Python, Java, and C++.
- The ability to work well in teams and basic communication skills in written and spoken English.

Our offer

The scholarship will be 4,500.00 BRL (Brazilian Real) net per month, based on a full-time contract of 40 hours a week.

Start in August 2023.

What you can expect from us

Among other indicators of excellence, the University of Campinas is one of the top 100 universities in emerging economies, the top Brazilian university in patents, and the best in the country in Computer Science and Engineering and Technology for consecutive years.

Our group values innovative ideas and pursues novel solutions. We will help you develop personalized soft skills and specialist training. We offer you **varied and challenging work** in an **enthusiastic team**. We celebrate diversity and are committed to creating an inclusive environment for our team.

How to apply

Please send your curriculum vitae and a cover letter with a max. two pages (English) in the following form: <https://forms.gle/jHJzoegEzfE5NEL89>. Applicants should also provide at least one reference letter to be sent directly by the referees to mraimundo@ic.unicamp.br before the deadline.

Applicants should also send contact details of at least one referee to provide reference letters.

You should also pass the selection committee at the Institute of Computing at the University of Campinas, more information in <https://ic.unicamp.br/pos-graduacao/processo-seletivo/>

Deadline: May 15th, 2023