

**Position**  
**Pre-Doctoral Student / Research Engineer**

**General information:**

Institution: [Panthéon-Sorbonne University](#)

Supervisor: Clément Gorin, [clement.gorin@univ-paris1.fr](mailto:clement.gorin@univ-paris1.fr), [www.clementgorin.com](http://www.clementgorin.com)

Location: Maison des Sciences Economiques, [112 Boulevard de l'Hôpital, 75013 Paris, France](#)

Appointment type: Fixed-term, Full-time, On-site (mostly)

Appointment duration: 12 months (renewable)

Start date: September 2025 (flexible)

Application deadline: 6 July 2025

**About myself:**

I am an Associate Professor of Economics at Panthéon-Sorbonne University, Paris. My research is positioned at the intersection of spatial economics, economic history, and deep learning. Broadly speaking, I am interested in understanding how the movement of people and ideas shapes the spatial distribution of economic activity and the development of urban areas. I am currently looking for a highly motivated pre-doctoral student or research engineer to work with me on existing research projects that employ deep learning models to analyse image or language data. For additional information about my research projects, see [my research page](#).

**About the position:**

This position offers an exciting opportunity to contribute to applied research in applied economics and deep learning. It is a research-intensive role, requiring the candidate to work independently and propose innovative solutions to complex problems. The selected candidate will primarily contribute to ongoing projects focused on using historical maps, documents, and paintings, to answer questions in spatial economics and economic history. The candidate will be working in collaboration with a recently appointed research engineer. Responsibilities may evolve based on the projects and the candidate's skills and interests. Ideally, the candidate should have a strong interest in academic research, as this position provides an excellent pathway to PhD placements at top institutions.

**Job description:**

- Collaborate and communicate effectively with the research team.
- Read, assimilate, and summarise relevant and recent scientific literature.

- Develop and maintain pipelines to automate data sourcing and processing.
- Implement, optimise, and deploy deep learning models.
- Evaluate and enhance implementations through rigorous testing and debugging.
- Eventually, supervise and coordinate undergraduate research assistants.
- Participate in writing papers and reports.

**Ideal candidate:**

- Master's degree in Economics, Statistics, Computer Science, Engineering or related fields.
- Prior experience in academic or applied research.
- Strong analytical and problem-solving skills.
- Self-driven and capable of working independently.
- Good communication skills, fluency in English.
- Understanding of deep learning methods for image and language modelling.
- Proficiency in Python or other object-oriented programming languages (R, Julia).
- Proficiency in PyTorch or other deep learning frameworks (TensorFlow).
- Familiarity with image processing and geospatial libraries (scikit-image, rasterio, geopandas).
- Ability to write clean, readable, reproducible, and well-documented code.
- Experience with version control systems (Git).

**Remuneration:**

The remuneration is aligned with the salary scale for *Ingénieur d'Etudes* (IE) at the French National Centre for Scientific Research (CNRS).

**How to Apply:**

Please submit your curriculum vitae and a cover letter detailing your relevant coursework, research experience, and significant projects to the provided email address. If you have any questions, feel free to reach out.