

The Thematic Project "Digital Collections and Research: Art, Architecture, and Technology" (Process: 2022/05946-9), developed at the University of São Paulo (members: Faculty of Architecture, Urbanism, and Design – FAUUSP, and the Museum of Contemporary Art), with researchers from FILE – International Festival of Electronic Language, and PUC-SP, funded by FAPESP - São Paulo Research Foundation, offers a post-doctoral scholarship for a distinguished researcher.

The research will be conducted at the Faculty of Architecture, Urbanism, and Design – FAUUSP, at FAU-Maranhão headquarters, located at Rua Maranhão, 88 – São Paulo - SP.

**Application:**

**Post-Doctoral Scholarship:** The Database Aesthetics and Artificial Intelligence

**Knowledge Area:** Architecture and Design

**FAPESP Process Number:** 2022/05946-9

**Project Title:** Digital Collections and Research: Art, Architecture, and Technology

**Field of Activity:** Languages and Technology

**Number of Positions:** 1

**Duration:** 24 months

**Principal Investigator:** Giselle Beiguelman

**Institution:** Faculty of Architecture, Urbanism, and Design – FAUUSP

**Deadline for Applications:** August 21, 2023

**Location:** FAU-Maranhão - Rua Maranhão, 88 – São Paulo - SP

**Email for Applications:** [acervosdigitais@usp.br](mailto:acervosdigitais@usp.br)

**Summary**

This post-doctoral research investigates the use of Artificial Intelligence resources in the production of data visualization systems, aiming to open new fields of scientific research in native-digital collections and contribute to the transparency of the system in its public access. To do so, we seek to systematize a theoretical repertoire related to the field of aesthetics of databases and conduct a series of case studies to propose Artificial Intelligence functionalities focused on optimizing the use of metadata related to the files cataloged in the database of this Thematic Project. These metadata include textual information such as the author's name, file type, and date, as well as data related to the layers of digital image files (such as color encoding, curves, and coordinates of digital object shapes), and data produced in administrative routines, such as loan registrations and tracking of the circulation of these objects on social networks. Among the expected results are a) conceptual contributions to the field of database aesthetics, with publications and participation in scientific events; b) systematization of information design possibilities to give visibility to the collection and the flows of its data; c) proposal and identification of possibilities for future research in the field of digital preservation; d) collaboration with the data transparency and accessibility goals of this Thematic Project.

**Mandatory Prerequisites**

- Having obtained a doctoral degree in a related field to the project within the last seven years;
- Availability to start research activities immediately; • Previous publications in the project's area;
- The selected candidate must reside in São Paulo (SP) and be dedicated exclusively to research.

#### **Desired Profile**

- Proven prior experience in research in the field of Architecture and Digital Design and its intersections with the arts;
- Previous research experience with digital collections;
- Excellent oral and written communication skills;
- Familiarity with the debate on the use of Artificial Intelligence and its applications in the organization and curation of digital collections.

#### **Activities to be Developed**

- Mapping and elaboration of case studies on the uses and applications of Artificial Intelligence in data visualization systems related to this Thematic Project;
- Assisting in the modeling processes of the databases within this Thematic Project, with a focus on metadata indexing procedures;
- Organizing a discipline dedicated to the theme of the post-doctoral project;
- Participating, with partial research results presentation, in International Workshops and Seminars organized by the Thematic Project team;
- Publication of two scientific articles;
- Participating in scientific events with publications in their proceedings;
- Development of the annual reports required by FAPESP;
- Participating in regular meetings of the Thematic Project group.

#### **Applications**

Interested candidates should send the following documents via email care of Prof. Dr. Giselle Beiguelman at [acervosdigitais@usp.br](mailto:acervosdigitais@usp.br), with the subject "Post-Doctorate - Selection Process":

- Curriculum Summary, emphasizing the scientific production related to this Thematic Project;
- PhD degree certificate or document proving the obtention of the degree;
- A letter (maximum 2 pages) indicating the reasons for interest in the scholarship with a brief account of their experience;
- References to publications authored by the candidate that demonstrate their expertise in the topics relevant to the scope of this Call for Applications.

The deadline for submitting applications is August 21, 2023. Applications will be considered only if all documents are received by 23:59 on August 21, 2023, Brasília time (UTC-3).

The evaluation of applications for the post-doctoral scholarship will consider the following aspects:

- The candidate's research history;
- The curriculum analysis will not only consider the number of the candidate's publications but also their relevance to the characteristics defined in the desired researcher profile in this notice;

- Candidates may be called for an in-person or online interview with the supervisor to assess the alignment of their experience areas with the research topics related to the project.

**The position is open to Brazilian and foreign applicants**

The implementation of the scholarship is subject to approval by FAPESP. If approved, the selected candidate will receive a scholarship of R\$ 9,047.40 per month. There is a technical reserve equivalent to 10% of the annual scholarship value to cover expenses directly related to the research activities of the Thematic Project. If the post-doctoral fellow resides in a different location and needs to move to the city where the research institution is located, they may be entitled to an Installation Aid. More information about the FAPESP Post-Doctoral Scholarship is available at <https://fapesp.br/en/postdoc>.

The validity of this post-doctoral selection process is for 6 (six) months, and if the first selected candidate does not assume the position, the second selected candidate may be called upon.