

# Dieinison Braga

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**Expertise** I'm a PhD Candidate in Data Visualization at PUC-Rio. Interested in human-data interaction. I combine techniques and methods from visualization and human-computer interaction to support sensemaking and help derive actionable insights from data.

Visualization

Data Science

User experience

Research

Coding

Teaching

## Education

2024 – ongoing

### PhD in Informatics

Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil

Dissertation: (ongoing)

Advisor: Simone Barbosa

2019 – 2023

### MSc in Informatics

Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil

Thesis: *Visualizing Data Facts: A Comparative Study of Annotation Techniques and Their Impact on Users' Perceptions* (advised by Simone Barbosa)

2014 – 2018

### BSc in Computer Science

Federal University of Ceará (UFC), Brazil

Title: *Estimativa da Evapotranspiração de Referência para Fins de Manejo da Irrigação* (advised by Ticiania Linhares Coelho da Silva)

## Professional Experience

Since Oct 2019

### R&D Scientist

PUC-Rio, ExACTa Lab, Rio de Janeiro (Brazil)

Contribute to industry-relevant research projects in interdisciplinary teams. Develop product features and conduct mixed-methods UX research, analysis, and client reporting. Provide consulting on data visualization design to enhance analytical components.

2018 - 2019

### Data Scientist

UFC & OSF Digital

Conducted research in computer vision, with a focus on image classification and object detection. Published results in the International Conference on Machine Learning and Data Mining.

2017 – 2018

### Software Developer Intern

OSF Digital

Developed content management systems.

Teaching & Training Held lectures and tutored students

Since Mar 2023

**Professor**

**Central Continuing Education (CCE), PUC-Rio**

Courses: Software Engineering and Full-Stack Development (graduate)

Responsible for teaching and mentoring postgraduate students, and supervising capstone projects, supporting them in developing practical work in full-stack and software architecture tracks.

Mar 2023 – Jun 2023

**Teaching Assistant**

CTC4002 Modelagem e Programação (undergraduate)

Supported lectures, lab sessions, and graded assignments.

**Service**

**Student Volunteer** (SBBD 2018, INTERACT 2025)

**Languages**

I am fluent in **Portuguese** and **English**.

**Publications**

- 2026 Braga, D. (2026). **Vis-OntoQ: An Ontology-Guided Framework to Support Non-Expert Analysts Formulating Data Questions during Visual Exploration.** *CHI EA '26: Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems*, (1–5).
- 2025 Braga, D.J.F., Lima, R.A., dos Santos, J.D.L., de Oliveira, G.M., da Silva, M.C., Barbosa, S.D.J. (2025). **Arcano: Generating Data Questions to Support Non-Expert Analysts in Hypothesis Formulation.** INTERACT 2025 (100-105).
- 2024 Braga, D., Silva, M., Lima, R., Barbosa, G., & Barbosa, S. **VisStoryMaker: supporting non-expert analysts in visually exploring datasets and communicating insights with visual annotations and data stories.** *Proc. XXIII Brazilian Symposium on Human Factors in Computing Systems* (1-15).
- Awarded as 1st place in the **Innovation Award (Selo de Inovação)**, Brazilian Computer Society, 2022.
- 2020 Rodrigues, A., Barbosa, G., Lima, R., Braga, D., Lopes, H., & Barbosa, S. **Revisiting visualization task taxonomies: specifying functions for the data transformations stage.** *In International Conference on Human-Computer Interaction* (655-671).
- 2019 Braga, D., SS, L., Souza, C., & da Silva, T. **Handbags classification model via deep learning.** *In International Conference on Machine Learning and Data Mining* (1-11).
- 2019 Braga, D., da Silva, T., Rocha, A., Coutinho, G., Magalhães, R. P., Guerra, P. & Barbosa, S. (2019). **Time series forecasting to support irrigation management.** *Journal of Information and Data Management*, (66-80).

- 2018 Braga, D., da Silva, T., Rocha, A., Coutinho, G., Magalhães, R., Guerra, P., & de Macêdo, J. **Time series forecasting for purposes of irrigation management process**. In *Simpósio Brasileiro de Banco de Dados* (217-222).
- Received **Best Short Paper Award**, Brazilian Symposium on Databases (SBBD), 2018.