

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
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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 Ticiane 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

- 2025 Braga, D., Lima, R., Santos, J., Oliveira, G., Silva, M. & Barbosa, S. **Arcano: Generating Data Questions to Support Non-Expert Analysts in Hypothesis Formulation**. INTERACT (to appear): *Demo paper*.
- 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 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., Magalhaes, 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.