

Giovani de Almeida Valdrighi

Campinas, Brazil

☎ +5515988297832 • ✉ giovani.valdrighi@ic.unicamp.com

🌐 giovaniValdrighi.github.io

First-year Ph.D. candidate in Computer Science at the University of Campinas, performing research in fairness, explainability, and trustworthy machine learning. MSc in Mathematical Modelling and BSc in Applied Mathematics, both at Getulio Vargas Foundation. Previously, performed research in visualization for spatiotemporal data, with published papers at high-impact conferences.

Expertise: Fairness, Machine Learning, Math Modeling, Visualization.

Education

University of Campinas <i>Ph.D in Computer Science, GPA: 4.0/4.0</i>	Campinas, Brazil <i>2023 – Currently</i>
Getulio Vargas Foundation <i>MSc in Mathematical Modelling, Median: A</i>	Rio de Janeiro, Brazil <i>2022 – 2024</i>
Getulio Vargas Foundation <i>BSc in Applied Mathematics, GPA: 9.2/10.0</i>	Rio de Janeiro, Brazil <i>2018 – 2021</i>

Experience

Hub for Artificial Intelligence and Cognitive Architectures (H.IAAC) <i>Researcher</i> <ul style="list-style-type: none">○ Trustworthy methods for machine learning: fairness and explainability.○ Trade-off between short-term/long-term fairness.	Campinas, Brazil <i>August 2023 – Currently</i>
Visual Data Science Lab (VDS) <i>Researcher</i> <ul style="list-style-type: none">○ Study and development of visualization techniques for spatiotemporal data.○ Machine learning methods for understanding and forecasting deforestation in Amazonia.	Rio de Janeiro, Brazil <i>August 2020 – May 2024</i>
Visualization Imaging and Data Analysis Center (VIDA) <i>Visiting Researcher</i> <ul style="list-style-type: none">○ Deep learning for predicting socioeconomic indexes from remote sensing data.	New York, United States <i>January 2023 - April 2023</i>
School of Applied Math <i>Teaching Assistant</i> <ul style="list-style-type: none">○ Data Structures and Algorithms in Undergraduate and Master's courses.○ Databases in the business education program.	Rio de Janeiro, Brazil <i>February 2019 - June 2023</i>

Awards, Scholarships

FAccT 2024

Travel award for participation, volunteer student

June 2024

TropProbAI

Travel award for participation

February 2024

FUNCAMP

PhD scholarship holder

August 2023 – Currently

CAPES

Scholarship holder

2022 – 2023

Scholarship (tuition fee) holder in the Graduate Support Program for Private Education Institutions (PROSUP).

School of Applied Math (EMAP - FGV)

MSc scholarship holder

2022 – 2024

CDMC - FGV

BSc scholarship holder

2018–2021

Scholarship holder for the Center for the Development of Mathematics and Sciences (CDMC) of FGV. Selected due to performance at OBMEP.

PICME/CNPq

Scholarship Holder of Undergraduate Research

2018 – 2020

- Study of the relation between socioeconomic indexes and the result of students at ENEM.
- Research in the connection between causal inference techniques and machine learning methods.

OBMEP - Math Olympics

Medal Awards

2011 - 2017

Annual participation in the Brazilian Olympics of Math of the Public Schools (OBMEP) with two bronze, four silver, and a gold medal.

OBA - Astronomy Olympics

Medal Awards

2014

Participation in the Brazilian Olympics of Astronomy (OBA) with a bronze medal.

Skills

- **Mathematics:** Mathematical Modeling, Optimization, Probability
- **Programming Languages:** Python, C++, JavaScript, D3.js, MATLAB, R
- **Frameworks:** Scikit-learn, PyTorch, TensorFlow, Keras
- **Utilities:** Git, Github, Linux, Docker, Anaconda

Languages

- **Portuguese:** Native language.
- **English:** Fluent.