

# Gabriel Borges Gutierrez

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## Education

### Doctorate - Universidade Estadual de Campinas

Research in Weak Supervision and Active Learning

Campinas, SP - Brasil

2025 - Presente

### Master's - Universidade Estadual de Campinas | GPA: 3.78

Semantic segmentation of seismic facies.

Campinas, SP - Brasil

2023 - 20235

## Skills & Courses

**Programming Skills:** Python, JavaScript, Rust, C#, Java, HTML, CSS

**Machine Learning Skills:** Semantic Segmentation, Transformers, SSL, Foundation Models, Computer Vision

**Language Skills:** English - Fluent, Japanese - Intermediate, Spanish - Intermediate

**Courses and Certifications:** Machine Learning, Computer Vision, Image Processing, Data Science, Data Visualization, Software Architectures, User Interfaces, Design

## Professional Experience

### Discovery Lab - Unicamp

Researcher

Campinas, SP - Brazil

2023 - Presente

- Researching semantic segmentation of seismic facies in partnership with Petrobras
- Also works as architect and core maintainer of an ML framework, optimizing pipelines and integrating new tools to facilitate academic research

### Teaching Internship - Unicamp

TA

Campinas, SP - Brazil

2024.1

- Provided assistance in teaching Programming 1 (Python)

### Artificial Intelligence Laboratory (LIA) - UFMS

Junior Researcher

Campo Grande, MS - Brazil

2020 - 2022

- Researched Fake News Detection

## Publications

### Applying the Transformer Architecture for Semantic Segmentation of Seismic Facies

2024

85th Annual EAGE Conference  
Oslo - Norway

- Article and presentation received one of the highest ratings from reviewers