

# Gilber Alexis Corrales

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## Education

2023–26\* **Ph.D.**, Bioengineering, Explainable AI Focus, Universidad del Valle  
2021–22 **S.<sup>†</sup>**, Artificial Intelligence, Universidad Autónoma De Occidente  
2016–21 **B.Sc.**, Biomedical Engineering, Universidad Autónoma De Occidente

## Research Experience

2024– Research Assistant, [Gob Lab](#), Universidad Adolfo Ibáñez, (Advisor: [PhD. Reinel Tabares Soto](#))  
2023– Research Assistant, [GBIO](#), Universidad Autónoma De Occidente, (Advisor: [PhD. Jesus Alfonso Lopez](#))

## Awards & Honors

2023– Graduate Assistantship, [Universidad Autónoma De Occidente](#)

## Publications

### Journal Articles

J1. **Corrales Gallego, G. A.**, Soto, R. T., & López Sotelo, J. A. Agnostic methods for machine learning model interpretability: A systematic review. *Neurocomputing-Elsevier NEUCOM-D-24-05831*. <https://shorturl.at/Ya0KL>. (In publication process)  
J2. **Corrales Gallego, G. A.**, Soto, R. T., & López Sotelo, J. A. Enhancing Interpretability Methods in Imaging Using the Segment Anything Model (SAM) Algorithm. *IEEE*. <https://shorturl.at/RRGqi>. (In publication process)

### Working papers

W1. **Corrales Gallego, G. A.**, Soto, R. T., López Sotelo, J. A. A Literature Review on Vision Language Models Applied to Health. <https://shorturl.at/dC9Ta>  
W2. **Ferro-Sánchez, C. A.**, Campo, O., Nope Rodríguez, S. E, Corrales Gallego, G. Methodology for Correcting the Natural Head Projection in CBCT Images of a Mixed-Race Population Sample. *MethodsX-Elsevier*. (In publication process)

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\*Expected.

†Specialist.

## Tools & Software

### GobLab UAI

**Transparency Tool:** Tool designed to support the creation of transparency records for automated or semi-automated decision-making systems. *Role* provided constructive feedback and participated in testing to ensure the tool's effectiveness and usability.

## Teaching

### Universidad Autónoma De Occidente

2023            Lecturer, Neural Networks and Deep Learning (CODE 541204)  
2023            Lecturer, Fundamentals and Applications in Artificial Intelligence (CODE 521206)

## Academic Advising

### Undergraduate

2024            Alejandro Rico Romero, Juan Miguel Murillo González, Universidad Autónoma de Occidente, Evaluator of Undergraduate Thesis Proposal: "*Automated Tool Based on Artificial Intelligence for the Systematization and Evaluation of Metrological Information at the Clínica de Occidente Cali*"

## Other Experience

2023            Artificial Intelligence Engineer, [kaleido lab](#), Colombia. Implement the transcription of voice to text using the Whisper model from OpenAI, perform benchmarking and cost analysis of GPT-3, and develop convolutional neural networks for sentiment analysis from textual and visual content.

2023            Backend developer, [Mejora Integral Consultores](#), Colombia. Developing microservices on Raspberry Pi 4 embedded systems for performance monitoring, designing user interfaces with QT Designer, managing deployments with Docker Compose, implementing a monitoring system with Prometheus, and developing performance visualizations with Bokeh.

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