

Gilber Alexis Corrales

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Education

2023–26* **Ph.D.**, Bioengineering, Explainable AI Focus, Universidad del Valle
2021–22 **S.[†]**, 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. **Ferro-Sánchez, C. A.**, Campo, O., Aristizábal, Juan., Corrales Gallego, G.A. Nope Rodríguez, S. E. Methodology for the correction of a CBCT volume from the skull to the natural head position. *MethodsX-Elsevier* MEX-D-24-00797. <https://shorturl.at/RQcF1> (In publication process)
- J3. **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)

*Expected.

†Specialist.

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>. (In publication process)

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.

Last updated: August 16, 2024