# Gilber Alexis Corrales

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## Education

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| 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

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| 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

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| 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)

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[*]Expected.

[†]Specialist.

**Working papers**

W2. **Corrales Gallego, G. A.**, Soto, R. T., López Sotelo, J. A. XIA ARENA: Towards a Robust Comparison of Current Interpretability Agnostic Methods.(In development process)
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

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

## Academic Advising

### Undergraduate

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| 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

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| 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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Last updated: September 7, 2024