

Alberto D. Horner

AI Engineering and Causal Reasoning

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 [HornerAlberto](#)

AI Engineer, Causal AI independent researcher and a biweekly contributor to the [causalpython.io](#) newsletter. I have designed and implemented reliable Cloud Data Architectures for 7+ companies. Causal AI and Tabular GenAI can unlock incredible value both for businesses and science and, in the long run, for society in general. I would always prefer being part of something bigger rather than achieving something on my own.

Industry Experience

- **EY Global Delivery Services - Senior AI Consultant** 2025 - present
 - AI Forward Deployed Engineer
 - Lead the AI Research Center and Academy (GenAI, Time-Series, Ontology, Tabular Foundational Models)
 - Lead the AI Microsoft Fabric Center of Excellence
 - Data engineering with Microsof Fabric with a Fortune 100 company
 - Development of AI Agents in Microsoft Fabric Architectures
- **Causal Python - Newsletter contributor** 2025 - present
- **Ventagium Data Consulting - Data Engineer** 2023 -2025
 - Administrator of a private repository for data ingestion and data management with Spark in Microsoft Fabric.
 - Developed Causal Analysis to deliver valuable insights to our clients.
 - Developed Data Intensive Arquitectures across Microsoft Azure and Microsoft Fabric.

Education

- **Universidad Nacional Autónoma de México (UNAM) - Master in Philosophy of Science**
 - Thesis: "Machines that think on causes" ([Máquinas que piensan causas](#))
 - Advisor: Dr. Francisco Hernández Quiroz (Faculty of Computer Science)
 - GPA: 10 on a scale of 10. Best graded in my generation.
 - Graduated with honors in June, 2024. Attended from 2021 to 2023.2021 -2023
- **Universidad Panamericana - Bachelor in Philosophy** 2015 - 2019
 - Graduated with honors in 2021. Attended from 2015 to 2019.

Certifications

- (2025) Databricks Associate GenAI Engineer
- (2024) DP-600 Microsoft Fabric Analytics Engineer Associate
- (2024) DP-700 Microsoft Fabric Data Engineer Associate
- (2023) AZ-900 Microsoft Azure Fundamentals Certification
- (2022) Machine Learning *Stanford University* Online Certified Course by Andrew Ng



Languages

- Spanish (native)
- English (full proficiency)
- German (limited working proficiency)

Sample ML projects

- RNNs for weather, financial, and population forecasting.
- ALS for product recommendations.
- NNs for magnetic resonance image classification.
- Structural Causal Models to improve retail results.

Awards

- (2018) Second place at the XV International Logic Contest within the Masters category, organized by the Mexican Academy of Logic (AML)
- (2017) First place at the XIV International Logic Contest within the Undergraduate category, organized by the Mexican Academy of Logic (AML)

Skills

- Causal Inference
- Machine Learning
- Data Analysis
- Data Governance
- Data Management
- Security Best Practices
- DevOps

Tools

- Python (and pySpark)
 - SQL
 - HTML, CSS and Javascript
 - MATLAB
 - Pywhy
 - pgmpy
 - PyTorch
 - Keras
- scikit-learn
 - Microsoft Fabric
 - Apache Spark
 - SQL Databases
 - Near-Real-Time Intelligence
 - Data Lakes
 - Power Platform
 - Power BI

Research Experience

● Research Group on History of Philosophy and Mathematics (UNAM)	2023-2025
• Led by Dr. Carmen Martínez Adame. Most members are professors at the Faculty of Sciences of the Universidad Nacional Autónoma de México (UNAM).	
● Research Group on Causal Inference and Causal Discovery (INAOE)	2023-2025
• Led by Dr. Enrique Sucar and Dr. Julio César Muñoz, both are researchers at the National Institute of Astrophysics, Optics and Electronics.	
● CONAHCYT Research Scholarship at Universidad Nacional Autónoma de México	2021-2023
• Causal Inference research. • Presented my research to the computer science community in the workshop CaDis 2023, at the INAOE (National Institute of Astrophysics, Optics, and Electronics).	
● Technology, Environment and the Pursuit of Wisdom (Duke University)	2023
• Dr. Peter Casarella and Sr. Damien Marie Savino, Ph.D. led this one-week seminar at Duke University. The seminar was organized by the <i>Lumen Christi Institute</i> , and we addressed topics on the meaning of science and engineering particularly regarding environmental sustainability.	
● Research seminar on Logic, Epistemology and Ethics of AI	2020- 2022
• Led by Dr. Karen González Fernández, and organized at the Universidad Panamericana. It is an international and interdisciplinary seminar. I participated in the organization of the seminar.	

Publications

- “Book Review: *Privacy is Power* by Carissa Véliz”, Tópicos, No. 66 (2023), May-August. <https://doi.org/10.21555/top.v660.2656>
- “Should Causal AI Rule Over Deep Learning?”, *Workshop on Causal Discovery CaDis 2023*, Mexican Academy of Computing (AMEXCOMP). December 12th, 2023. [ISBN 978-607-98941-8-4](#).

Teaching Experience

● Universidad Panamericana - Ethics Subject Teacher	2022 - 2023
● Prepa UP - High School Ethics, Logic, and History of Art Subject Teacher	2019- 2021

Civic Engagement

- (2020 - 2024) Cofounder and Editor of *Revista Spes*, a magazine focused on reflexive thinking, public life and civic journalism.
- (2018) A month of social service at Itiatio, Guerrero, México.
- (2014 - 2015) A year of service at Sta. María Quiegolani, Oaxaca, México.