

Gabriel Lopez-Asiain

EDUCATION

University of Chicago

Sep. 2025 – Dec. 2026

M.S. in Data Science (GPA: 3.97/4.0)

Chicago, IL

- Awarded merit-based tuition scholarship.
- Focus: Machine Learning, Data Engineering, Computer Vision, Natural Language Processing.

Universidad Autónoma de Madrid

Sep. 2020 – Jun. 2025

B.S. in Computer Science (GPA: 3.63/4) and B.S. in Mathematics (GPA: 3.54/4)

Madrid, Spain

- 5-year double degree program ranked among Spain's top 10 most competitive undergraduate programs.
- Focus: Statistics, Probability, Machine Learning, Data Structures, Algorithm Design, Linear Algebra, Differential Calculus, Software Engineering.
- *Computer Science Thesis*: Generative AI with Diffusion Models and Stochastic Differential Equations.
- *Mathematics Thesis*: Spatial Point Patterns Modeling using Poisson Processes in General Spaces.

University of Sydney

Jul. 2023 – Jun. 2024

International Exchange Program

Sydney, Australia

- Received 1 of the 3 scholarships awarded by my university for a one-year fully funded academic exchange.
- *Capstone Project*: Designed and developed an interactive game-based learning tool for the Department of Civil Engineering at the University of Sydney.

EXPERIENCE

Amazon

Jun. 2026 – Now

AI/ML Engineer Intern

Madrid, Spain

- End-to-end development of a generative AI audio feature for the Ring application, taking full ownership of the pipeline across model deployment, backend, infrastructure, and frontend at production scale.
- Developed an automated knowledge base system by integrating internal enterprise tools via MCPs, optimizing context retrieval to boost the precision and execution speed of agentic coding.

Toyota Technological Institute at Chicago

Dec. 2025 – Now

Student Researcher

Chicago, IL

- Member of the Perception and Learning Systems Lab under the supervision of Prof. Greg Shakhnarovich.
- Independently proposed and led a research project on compressing video representations for large vision language models (VLMs), reducing the number of tokens required by 94% while matching state-of-the-art accuracy on a standard video understanding benchmarks.

Management Solutions

Sep. 2024 – Dec. 2024

Data Science Intern

Madrid, Spain

- Analyzed and leveraged large-scale global financial datasets (millions of records) using SQL and Python to support Santander Bank's regulatory reporting and risk management.
- Developed, deployed, and validated technical solutions (including a credit-risk capital calculation in SQL) to increase reporting accuracy, efficiency, and data integrity for critical compliance workflows.

SKILLS

Programming Languages: Python, C/C++, R, Java, SQL, MATLAB.

AI/ML: PyTorch, Scikit-Learn, Pandas, NumPy, OpenCV, Hugging Face, LangChain, OpenAI API.

Cloud & MLOps: AWS (SageMaker, Bedrock, EC2, S3, Lambda, Fargate), Docker, Git, Linux, CI/CD.

ACHIEVEMENTS & INTERESTS

Awards: Valedictorian, High School GPA 10.0/10.0; Top 1% EvAU (Spanish University Entrance Exam) score (13.78/14); Three-time Excellence Scholarship, Community of Madrid (2021, 2023 and 2025).

Languages: Spanish (Native), English (Full Professional Proficiency), French (Limited Professional Proficiency).

Interests: University Football Team, Cinema, Surf.