

Irish Danielle "Ase" Morales

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EDUCATION

Ateneo de Manila University 2024
BS Computer Science (Specialization in Data Science and Analytics)
Top graduate, GPA: 3.83, Director's List Scholar (Top 1.5% of applicants), 100% Financial Aid Scholar

AWARDS

University Scholarly Work Award, *Ateneo de Manila University* May 2025
Awarded for international Scopus-indexed publication of undergraduate thesis

Program Award (Top Graduate), *Ateneo de Manila University* June 2024
Top program graduate of BS Computer Science based on academics, extracurriculars, and service

Google Code-in Grand Prize Winner, *Google LLC* Jan 2019
1st Filipino winner; Awarded among 3,124 participants in 77 countries for excellence in open-source engineering

PUBLICATIONS

I.D. Morales, C.J. Echon, A.R. Teaño, R. Alampay, P.A. Abu. (2024). "MobileLookNet: A Lightweight Convolutional Neural Network for Detection of Osseous Metastasis Using Feature Fusion and Attention Strategies." *Asia Conference on Computer Vision, Image Processing and Pattern Recognition*.

M.M. Rodrigo, L.P. Alampay, Q.N. Lee-Chua, **I.D. Morales**. (2024). "An Experience Sampling Study of Student Emotional Life: Preliminary Results." *International Conference on Computers in Education*.

MANUSCRIPTS IN PROGRESS

I.D. Morales, A. Dayrit. "Meta-learning in Spiking Neural Networks: A Survey." (*In preparation*).

RESEARCH EXPERIENCE

Research Assistant Jan 2026 - May 2026
Ateneo Laboratory for the Learning Sciences

- Developing a multimodal patient interview simulation platform with AI-driven dialogue (LLMs & voice synthesis) to model and analyze patient-practitioner interaction dynamics for medical professional training

Research Assistant Jan 2026 - Apr 2026
Ateneo Laboratory for Intelligent Visual Environment

- Developing a clinical decision support platform deploying medical imaging models (YOLO, U-Net, & CNN-based architectures) for medical professional training in bone scintigraphy analysis

Research Consultant Jul 2025 - Dec 2025
Cavite National Science High School

- Advised on the architectural design of a bidirectional Sign Language-to-Text translation system for mobile with spatiotemporal models optimized for on-device inference

Research Assistant Jan 2023 - Dec 2024
Ateneo Laboratory for the Learning Sciences

- Developed a cross-platform data acquisition pipeline and analytics dashboard for experience sampling
- Co-authored a study published in Proceedings of ICCE 2024 on longitudinal analysis of affective trends in students

INDUSTRY EXPERIENCE

Founding Developer

Apr 2025 - Jul 2025

Tenext.ai

- Developed a real-time multimodal voice agent (STT → LLM → TTS) with retrieval-augmented generation; qualified for technical evaluation with the Philippines' flag carrier airline
- Implemented SOC 2 & ISO 27001 compliance standards for data protection across banking and healthcare clients

Full Stack Developer

Feb 2025 - Apr 2025

FYB Technologies

- Developed a transaction ledger using fixed-point arithmetic to eliminate floating-point non-determinism
- Engineered automated reconciliation for data consistency across wallet system and double-entry accounting ledger

Full Stack Developer

Jun 2023 - Dec 2024

Hackazouk

- Led development of distributed syncing engine for 150+ tables for microservice finance system with 15,000+ users
- Fast-tracked from intern to developer within 2 months (vs. 6-month standard); entrusted with technical project leadership of a 5-developer team

TEACHING EXPERIENCE

Technical Mentor (Graph Neural Networks), *Magnify Mentoring*

Sep 2023 - Jan 2024

Taught theory and implementation of graph neural networks for analysis of sociopolitical voting behavior

PROGRAMS AND WORKSHOPS

Oxford Cohort: Existential Risk Workshop

Feb 2024

Global Challenges Project

Oxford, UK

Competitive (~30 students accepted globally) and intensive workshops on technical AI safety and biosecurity research

Technical Alignment: AI Safety Fundamentals

Mar 2024 - May 2024

BlueDot Impact

Remote — Global

On AI alignment, including reinforcement learning from human feedback, interpretability, and scalable oversight

SKILLS

Programming & Data	Python, C++, TypeScript, SQL, LaTeX, NumPy, Pandas, Scikit-learn, Matplotlib
ML/AI	PyTorch, GNNs, CNNs, LLMs, RAG, STT, TTS
Tools	Git, Linux/Bash, Docker, Postman, AWS, Nginx, GitHub Actions

RESEARCH INTERESTS

Complex systems, computational neuroscience, embodied intelligence, biologically plausible learning algorithms, optimization