

# LAM NGO

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**Research Interests:** Agentic AI, Computer Vision, Human-AI Interaction, AI for Science

## EDUCATION

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### **Master of Science in Computer Science (Computer Games Technology)**

City St George's, University of London • UK • 09/2023 - 09/2024

**GPA: Distinction.** Related modules: Computer Vision, Computer Graphics, Deep Reinforcement Learning

*Thesis: Feature Extraction from Deep Dynamic Network for Reinforcement Learning*

### **Bachelor of Science in Mathematics.** Minor in Biology

Sewanee: The University of the South • USA • 08/2016 - 05/2020

**GPA: 3.46.** Related modules: Calculus I, II & III, Differential Equation, Partial Differential Equation & Modeling, Discrete Mathematics, Linear Algebra

## SCHOLARSHIP AND AWARDS

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**Global STEM Leadership Master's Scholarship:** 75% tuition award, given to 10 top applicants (2023, *City St George's University of London*)

**International Honors Scholarship:** partial tuition award (2016, *Sewanee: University of the South*)

## PUBLICATIONS AND PRESENTATIONS

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Child, C., **Ngo, L.** (2026). *DeeP-Mod: Deep Dynamic Programming Based Environment Modelling Using Feature Extraction*. In: Jin, L., Wang, L. (eds) *Advances in Neural Networks – ISNN 2025*. ISNN 2025. Lecture Notes in Computer Science, vol 15951. Springer, Singapore. [https://doi.org/10.1007/978-981-95-1233-1\\_3](https://doi.org/10.1007/978-981-95-1233-1_3). *Preprint: arXiv:2504.20535*

- **Presenting author**, *19<sup>th</sup> International Symposium on Neural Networks (ISNN 2025)*, August 24, 2025, China

Balogh, A., **Ngo, L.**, Zigler, K.S. et al. *Population genomics in two cave-obligate invertebrates confirms extremely limited dispersal between caves*. *Sci Rep* 10, 17554 (2020). <https://doi.org/10.1038/s41598-020-74508-9>

## RESEARCH EXPERIENCE

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### **AI/ML Research Engineer • 03/2025 - Present**

CitAI Research Centre • London, UK

- Investigating image partitioning methods to address the non-IID data challenge for federated learning in medical image analysis tasks, leveraging modern vision-language models and large language models; deployed on HPC clusters for large-scale inference across 10,000+ images.

### **AI/ML Research Technician • 09/2024 - 06/2025**

Department of Computer Science, City University London • London, UK

- Developed environment modeling techniques for reinforcement learning tasks by combining dynamic programming with feature extraction from Deep Q Networks, improving agent training in noisy settings; findings published in one paper.

### **Research Intern • 02/2019 - 05/2020**

American Museum of Natural History • NYC, USA

- Worked as technical assistant for Terrapin Tracker, an IoT-based animal tracking system, which was selected as finalist for the Con X Tech Prize 2020.

### **Undergraduate Research Assistant • 10/2016 - 05/2020**

Department of Biology, University of the South • TN, USA

- Conducted data engineering and analysis using R and Python for a transcriptome research project.

## INDUSTRY EXPERIENCE

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### **C++ Programmer Mentee • 10/2023 - 03/2024**

Ubisoft Leamington • Leamington Spa, UK

- Built an entity-component game engine using modern C++ and internal graphics API.
- Implemented AI algorithms to anticipate player movements, enhancing gameplay difficulty.

### **Junior Programmer • 06/2022 - 06/2023**

Indi Games Inc. • Ho Chi Minh City, Vietnam

- Developed multiplayer game systems in Unity with real-time WebSocket integration, delivering three commercial products for Japanese clients.

### **Web Developer • 03/2021 - 11/2021**

Teamscā Pty Ltd • Ho Chi Minh City, Vietnam

- Developed and deployed WordPress-based websites and plugins for Australian clients, leveraging HTML, CSS, and PHP for front-end and back-end integration.

## CERTIFICATES

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**Deep Generative Learning & Advanced Computer Vision** | DeepLearning.AI | 2025

**Mathematics for Machine Learning: Linear Algebra** | Coursera | 2018

## SKILLS

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**Programming languages:** Python, C#, C++, TypeScript

**Frameworks:** PyTorch, TensorFlow, Keras, CUDA, OpenCV, NumPy, Pandas, Scikit-learn

**Tools & Tech:** HPC, Hugging Face, Visual Studio, VS Code, Git

## REFERENCES

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**Dr. Chris Child** • Associate Dean for Employability & Corporate Relations

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**Dr. Giacomo Tarroni** • Senior Lecturer in Artificial Intelligence

Department of Computer Science • London, UK • Contact: [giacomo.tarroni@citystgeorges.ac.uk](mailto:giacomo.tarroni@citystgeorges.ac.uk)