

LAM NGO

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

EDUCATION

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

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

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. Preprint: [arXiv:2504.20535](https://arxiv.org/abs/2504.20535)

- **Presenting author**, 19th 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

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

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

Teamscāl 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

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

Mathematics for Machine Learning: Linear Algebra | Coursera | 2018

SKILLS

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

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

Department of Computer Science • London, UK • Contact: c.child@citystgeorges.ac.uk

Dr. Giacomo Tarroni • Senior Lecturer in Artificial Intelligence

Department of Computer Science • London, UK • Contact: giacomo.tarroni@citystgeorges.ac.uk