AUNG KO KO OO

M.Sc. in Artificial Intelligence · Georgia Institute of Technology
Founder, Burmese NLP Research Group

GMAIL · GITHUB · LINKEDIN · RESEARCH GATE

Computer Scientist and AI Researcher specialising in Machine Learning, Natural Language Processing, Computer Vision, and Autonomous Systems — with a focus on low-resource languages and intelligent robotic agents.

EDUCATION

Master of Science in Computer Science (Specialisation: Artificial Intelligence) 2024 — Present
Georgia Institute of Technology, Atlanta, GA, USA

- OMS CS programme — one of the most rigorous and accessible graduate AI programmes globally.
- Coursework: Machine Learning, Deep Learning, Computer Vision, Robotics, Knowledge-Based AI.

Bachelor of Science in Computer Science Completed
University of the People, Pasadena, CA, USA

- Graduated with distinction — Cumulative GPA: **3.8 / 4.0**.
- Coursework: Data Structures & Algorithms, Operating Systems, Software Engineering, Database Systems, Discrete Mathematics, Linear Algebra, Probability & Statistics.

RESEARCH INTERESTS

Artificial Intelligence	Knowledge representation, automated reasoning, multi-agent systems, AGI foundations.
Machine Learning	Deep learning architectures, self-supervised & transfer learning, generalisation theory.
Computer Vision	Object detection & segmentation, vision–language models, scene understanding, CNNs & Vision Transformers.
Natural Language Processing	Large language models, low-resource NLP, Burmese tokenisation & morphology, machine translation, multilingual pre-training.
Robotics, Dynamics & Autonomous Systems	Intelligent control, motion planning, RL for robotics, dynamic modelling, autonomous perception–action loops in unstructured environments.

RESEARCH GROUP

Burmese NLP Research Group 2024 — Present
Founder & Principal Investigator — Independent Research Group

- Established an independent, community-driven collective focused on advancing NLP technologies for the Burmese language — one of Southeast Asia's most computationally under-resourced languages.
- Research directions: Burmese tokenisation & morphological analysis, low-resource machine translation, named entity recognition (NER), sentiment analysis, dataset creation & benchmarking, and multilingual LLM fine-tuning.
- Developing open-source corpora, evaluation benchmarks, and pre-trained models to support the global research

community working on Myanmar language technologies.

RESEARCH PROJECTS

Low-Resource Burmese Neural Machine Translation 2024 — Present
Burmese NLP Research Group

- Designing sequence-to-sequence Transformer architectures adapted for morphologically rich, low-resource language pairs (Burmese–English).
- Investigating data-augmentation strategies (back-translation, cross-lingual transfer) to mitigate data scarcity.

Burmese Word Segmentation and Tokenisation 2024 — Present
Burmese NLP Research Group

- Developing rule-hybrid and neural tokenisers for unsegmented Burmese script, addressing syllable-boundary ambiguity.
- Curating and releasing annotated corpora for downstream NLP tasks.

Vision–Language Model Adaptation for Low-Resource Scenarios 2024 — Present
Georgia Institute of Technology

- Exploring parameter-efficient fine-tuning (LoRA, adapters) of large vision–language models for under-resourced language communities.

Reinforcement Learning for Autonomous Navigation 2023 — 2024
Independent Research

- Studying model-based RL approaches for robotic path planning in dynamic, partially observable environments.

TECHNICAL SKILLS

Languages	Python, C++, Java, SQL, Bash/Shell, MATLAB
ML / DL	PyTorch, TensorFlow, JAX, Keras, Scikit-learn, XGBoost
NLP	Hugging Face Transformers, spaCy, NLTK, SentencePiece, OpenNMT
Computer Vision	OpenCV, Detectron2, YOLO, Torchvision, PIL/Pillow
Robotics	ROS/ROS2, Gazebo, MuJoCo, OpenAI Gym / Gymnasium
Infra / Tools	Docker, Git, Linux, CUDA, AWS, Google Cloud, Weights & Biases
Mathematics	Linear Algebra, Probability & Statistics, Calculus, Optimisation, Graph Theory

ACADEMIC SERVICE & LEADERSHIP

Founder — Burmese NLP Research Group 2024 — Present
Organiser of research agenda, collaboration outreach, and open-source releases.

Peer Reviewer (Volunteer) 2024 — Present
Workshop proceedings and preprint review in multilingual NLP and low-resource language processing.

Student Member, ACM & IEEE 2022 — Present

Active member of the Association for Computing Machinery and the Institute of Electrical and Electronics Engineers.

HONOURS & AWARDS

Academic Excellence — B.Sc. Computer Science 2023
University of the People, USA — Graduated with Cumulative GPA 3.8 / 4.0

Graduate Admission — OMS CS (AI Track) 2024
Georgia Institute of Technology — ranked Top 5 CS graduate programme globally.

LANGUAGES

Burmese (Myanmar)	Native
English	Professional Proficiency (CEFR C1)
Japanese	JLPT N1 — Full Professional Proficiency

REFERENCES

References available upon request. Professional and academic references from Georgia Institute of Technology faculty and former instructors at University of the People.

Curriculum Vitae • Aung Ko Ko Oo • Prepared in ACM Academic Style • Last Updated March 2025