

Pankayaraj Pathmanathan

Curriculum Vitae

[Website](#) | p.pankayaraj@gmail.com | [LinkedIn](#) | [Github](#) | [Full Resume](#)

WORK EXPERIENCE (SELECTED)

CURRENT, FROM SEPT 2022 (FULL TIME)

Research Assistant, Teaching Assistant *University of Maryland College Park*

During this time, I primarily worked on LLM poisoning attacks, including RLHF poisoning, backdoor poisoning, and copyright poisoning. These works have been published on **AAAI main conference** and **Neurip, ICML 2024 workshops** and are under review for ICLR, ACL 2025.

MAY 2025 – AUG 2025 AND NOV 2025 - CURRENT (FULL TIME & PART TIME)

Machine Learning Research Intern *Netflix, Los Gatos*

Worked on pretraining large language model based embeddings models

FEB 2022 – AUG 2022 (FULL TIME)

Research Engineer *Singapore Management University*

During this time, I had worked on constraint reinforcement learning methods that exploit the hierarchical reinforcement learning paradigm to better satisfy long horizon constraints in an effective manner. This work was published at **AAAI 2023**

PUBLICATIONS (SELECTED)

Pankayaraj P, Sehwag, U. M., Panaitescu-Liess, M.-A., Cho-Yu Jason Chiang, Huang, F. (2025a). Advbdgen: Adversarially fortified prompt-specific fuzzy backdoor generator against llm alignment [Oral] 4.6% , in the In **40th AAAI - AIA Conference** on Artificial Intelligence, Singapore

Pankayaraj P, Chakraborty, S., Liu, X., Liang, Y., Huang, F. (2024). Is poisoning a real threat to LLM alignment? maybe more so than you think, In [Poster], In **39th AAAI - AIA Conference** on Artificial Intelligence Philadelphia, Pennsylvania, USA

Pankayaraj P, Varakantham, P. (2022). Constrained reinforcement learning in hard exploration problems [Poster], In **37th AAAI Conference** on Artificial Intelligence Washington, D.C. USA

Panaitescu-Liess, M.-A., **Pankayaraj P**, Y. K., Che, Z., An, B., Zhu, S., Agrawal, A., Huang, F. (2024). Poisonedparrot: Subtle data poisoning attacks to elicit copyright-infringing content from large language models [Oral] , in the **NAACL 2025**

Pankayaraj P, Rodríguez, N. D., Ser, J. D. (2023). Using curiosity for an even representation of tasks in continual offline reinforcement learning, In **Cognitive Computation** Journal 2023

Panaitescu-Liess, M.-A., Che, Z., An, B., Xu, Y., **Pankayaraj P**, Chakraborty, S., Zhu, S., Goldstein, T., Huang, F. (2024). Can watermarking large language models prevent copyrighted text generation and hide training data?, In **39th AAAI Conference** on Artificial Intelligence Philadelphia, Pennsylvania, USA

Pankayaraj, P, Maithripala, D. H. S. (2020) A decentralized communication policy for multi agent multi armed bandit problems [Oral], In **European Control Conference** 2020, Saint Petersburg, Russia

Pankayaraj P, Maithripala, D. H. S., Berg, J. M. (2020). A decentralized policy with logarithmic regret for a class of multi-agent multi-armed bandit problems with option unavailability constraints and stochastic communication protocols [Oral], In **59th IEEE Conference on Decision and Control**, Jeju Island, Republic of Korea

EDUCATION

CURRENT	PhD computer science ADVISOR: FURONG HUANG University of Maryland College Park.
2015-2020	BSc Computer Science UNIVERSITY OF PERADENIYA, SRI LANKA

REFERENCES

NAME	Prof. Furong Huang
EMPLOYER	University of Maryland College Park
NAME	Ashish Rastogi
EMPLOYER	Netflix
NAME	Hafez Asgharzadeh
EMPLOYER	Netflix
NAME	Prof. Pradeep Varakantham
EMPLOYER	Singapore Management University

WORKSHOPS (SELECTED)

Panaiteescu-Liess, M.-A., Che, Z., An, B., Xu, Y., **Pankayaraj P**, Chakraborty, S., Zhu, S., Goldstein, T., Huang, F. (2024). Can watermarking large language models prevent copyrighted text generation and hide training data?, In [Best Paper] **NeurIPS Workshop AdvML-Frontiers** 2024

Pankayaraj P, Sumanasekera, Y., Samarasinghe, C., Elkaduwe, D., Jayasinghe, U., Maithripala, D. H. S. (2020). Multi-agent reinforcement learning in sparsely connected cooperative environments[Best Research Paper], in ES-Cape 2020, Sri Lanka.

Pankayaraj P, Huang, F (2025). Reward Models Can Improve Themselves: Reward-Guided Adversarial Failure Mode Discovery for Robust Reward Modeling **AAAI Workshop on Trust and Control in Agentic AI** 2026

Pankayaraj P, Huang, F (2025). RAGPart & RAGMask: Retrieval-Stage Defenses Against Corpus Poisoning in Retrieval-Augmented Generation **AAAI Workshop on New Frontiers in Information Retrieval** 2026