

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, Sehwal, 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

AWARDS

2022-2024 **Dean's Fellowship**
University of Maryland
2024 **Best Paper Award**
Neurips AdvML-Frontiers
2020 **Best Paper Award**
ESCaPe 2020, Symposium, 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)

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 **[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 ESCaPe 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