

Tuesday, December 10<sup>th</sup>, 2024

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## Muslims in ML (MusiML) Workshop

2:30-3:00 p.m. (Lightning Talk) \*

4:30-5:00 p.m. (Internal Poster Session), 6:30-8:00 p.m (Joint Poster Session for Affinity Groups)

### \* A Closer Look at Sparse Training in Deep Reinforcement Learning.

*Muhammad Athar Ganaie, Vincent Michalski, Samira Ebrahimi Kahou, Yani Ioannou.*

This paper explores sparse training in DRL, highlighting methods to improve dynamic sparse training performance at high sparsity, underscoring the need for DRL-specific strategies.

### Long-Tail Learning with Language Model Guided Curricula.

*Mohammed Adnan, Rahul Krishnan, Yani Ioannou.*

Improving performance on long-tail classes by leveraging LLMs to build curricula.

## Women in Machine Learning (WiML) Workshop

6:30 p.m - 8:00 p.m (Joint Poster Session for Affinity Groups)

### Learning to Reweight Examples in Backdoor Defense.

*Yufan Feng, Benjamin Tan, Yani Ioannou.*

We extend the online sample reweighting method from robust learning to the context of backdoor defense.

### What's Left After Distillation? How Knowledge Transfer Impacts Fairness and Bias.

*Aida Mohammadshahi, Yani Ioannou.*

We explore the impact of knowledge distillation temperature on fairness for language and image classification models.

Friday, December 13<sup>th</sup>, 2024

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## Main Conference

4:30-7:30 p.m. (Poster Session)

### Navigating Extremes: Dynamic Sparsity in Large Output Spaces.

*Nasibullah Nasibullah, Erik Schultheis, Mike Lasby, Yani Ioannou, Rohit Babbar.*

Investigates Dynamic Sparse Training for large output spaces. Leveraging semi-structured sparsity, intermediate layers, and auxiliary loss, it enables end-to-end training with millions of labels.

Poster Location: East Exhibit Hall A-C #2004

Saturday, December 14<sup>th</sup>, 2024

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## UniReps: Unifying Representations in Neural Models

4:30-7:30 p.m. (Poster Session)

### Winning Tickets from Random Initialization: Aligning Masks for Sparse Training.

*Rohan Jain, Mohammed Adnan, Ekansh Sharma, Yani Ioannou.*

Lottery Tickets can't be trained from random init. We show that permuting the mask to align with the new initialization's optimization basin results in a mask that better approaches LTH generalization.