

Multimodal Algorithmic Reasoning Workshop (MAR-NeurIPS 2024)

December 15th, 2024, Vancouver

<https://marworkshop.github.io/neurips24/>

CALL FOR PARTICIPATION

In this workshop, we plan to gather researchers working in neural algorithmic learning, multimodal reasoning, and cognitive models of intelligence to showcase their cutting-edge research, discuss the latest challenges, as well as bring to the forefront problems in perception and language modeling that are often overlooked but are pivotal in achieving true artificial general intelligence. An emphasis is on the emerging topic of multimodal algorithmic reasoning, where a reasoning agent is required to automatically deduce new algorithms/procedures for solving real-world tasks, e.g., algorithms that use multimodal foundational models for analysis, synthesis, and planning, new approaches towards solving challenging vision-and-language mathematical (Olympiad type) reasoning problems, deriving winning strategies in multimodal games, procedures for using tools in robotic manipulation, etc. We hope to dive deep into this exciting topic at the intersection of theory, multimodal machine learning architectures, and cognitive science to understand what we have achieved thus far in machine intelligence and what we are lacking in relation to the human way of thinking – through talks from outstanding researchers and faculty that could inspire the audience to search for the missing rungs on the ladder to true intelligence.

KEYNOTE SPEAKERS

Joshua B. Tenenbaum, MIT
Ranjay Krishna, University of Washington
Stefanie Jegelka, TUM and MIT
Sergey Levine, UC Berkeley
David Duvenaud, University of Toronto

IMPORTANT DETAILS

Date and Time: 8:25 AM - 5:10 PM PST on December 15, 2024

Location:

- West Building Exhibit Hall A, Vancouver Convention Center, Vancouver, BC, Canada
- MAR 2024 on the NeurIPS 2024 virtual platform:

<https://neurips.cc/virtual/2024/workshop/84713>

WORKSHOP ORGANIZERS

Anoop Cherian, Mitsubishi Electric Research Laboratories
Kuan-Chuan Peng, Mitsubishi Electric Research Laboratories
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CONTACT

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