

Mohammad Reza Samsami

DEVELOPING AGENTS CAPABLE OF PLANNING IN COMPLEX SITUATIONS.

Google / Mila - Quebec AI Institute

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Selected Research Experience

Google

STUDENT RESEARCHER

Working on world models in realistic settings in order to employ in robotics.

Montreal, Canada

2024 – Pres.

ServiceNow

VISITING RESEARCHER

Led a project to **systematically evaluate the reasoning capabilities of LLMs through their resilience to deception** (Pub #1).

Previously focused on correcting confounding biases in the RLAIF regime to **ensure reliable post-training**.

Montreal, Canada

2023 – 2024

Mila – Quebec AI Institute

RESEARCH STUDENT

Developed an RL method achieving **superhuman performance in memory-intensive tasks** (Pub #2, **Top 1.2%** @ ICLR).

Conducted **reverse engineering** of OpenAI's VPT agent to decode its behavior (Pub #3).

Montreal, Canada

2021 – Pres.

École Polytechnique Fédérale de Lausanne (EPFL)

RESEARCH INTERN

Led a project on **causal imitation learning for autonomous driving** (Pub #5).

Lausanne, Switzerland

2020 – 2021

Selected Publications

M. R. Samsami, et al. 2024. Too Big to Fool: Resisting Deception in Language Models. Under Review.

M. R. Samsami, A. Zholus, J. Rajendran, S. Chandar. 2024. Mastering Memory Tasks with World Models. ICLR, **oral**.

K. Jucys, et al. 2024. Exploratory Analysis of VPT, a Minecraft Agent. Mechanistic Interpretability at ICML.

S. Joseph, A. Zholus, **M. R. Samsami**. 2023. Mechanistic Interpretability on the Video PreTraining Agent. ATTRIB at NeurIPS.

M. R. Samsami, M. Bahari, S. Salehkaleybar, A. Alahi. 2023. Causal Imitative Model for Autonomous Driving. arXiv.

F. Hosseini, H. Fooladi, **M. R. Samsami**. 2019. Recognizing Arrow of Time in Short Stories. WinLIP at ACL.

Education

Université de Montréal

PH.D. IN COMPUTER SCIENCE

- Supervisors: Prof. Sarath Chandar, Prof. Irina Rish
- **GPA: 4.15 / 4.3**

Montréal, Canada

2022 - Pres.

Sharif University of Technology

B.SC. IN COMPUTER SCIENCE

- **GPA: 18.18 / 20**

Tehran, Iran

2016 - 2021

Selected Honors & Grants

2022, 2023 **Merit-based Scholarships for Excellence in Research**, Université de Montréal

2015 **Silver Medal in Iranian National Olympiad in Informatics**, National Elites Foundation

2016 **Ranked Top 0.3%**, Iran's Universities Entrance Exam