

Theophile Gervet

CONTACT INFORMATION

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RESEARCH INTERESTS

Solving practical problems with Embodied AI — useful robots in homes, schools, hospitals.

EDUCATION

Carnegie Mellon University

September 2018 - May 2020 (On Leave)

Machine Learning Ph.D. — GPA: 4.06/4.30, Advisors: Profs. [Tom Mitchell](#) and [Jeff Schneider](#)

- Reinforcement learning with applications in self-driving cars and personalized K-12 education at scale through adaptive sequencing of instructional activities in intelligent tutoring systems.

McGill University

September 2014 - December 2017

Computer Science & Mathematics B.Sc. Honours — GPA: 3.95/4.00

- Hierarchical reinforcement learning with Prof. [Doina Precup](#)

WORK EXPERIENCE

Research Intern, Facebook AI Research

May 2022 - August 2022

- Real-world semantic (object goal) navigation with [Devendra Chaplot](#) and Profs. [Dhruv Batra](#) and [Jitendra Malik](#).

Machine Learning Lead, Relyance AI

May 2020 - April 2022

- [Relyance AI](#) monitors and manages data privacy programs continuously with machine learning.
- Joined as the first engineer, hired and led a team of 8 machine learning engineers.
- Responsible for the team's roadmap, culture, and operational efficiency through high growth.
- Built Relyance's core end-to-end ML/NLP systems processing legal documents, source code, and runtime monitoring data to map user data flows, and the infrastructure for model training, deployment, and monitoring.

Research Intern, Facebook AI Research

March 2018 - June 2018

- Multi-agent reinforcement learning with Prof. [Joelle Pineau](#).

PUBLICATIONS

[PASS: Performance Adaptive Sampling Strategy Towards Fast and Accurate Graph Neural Networks](#)
Minji Yoon, **Theophile Gervet**, Baoxu Shi, Sufeng Niu, Qi He, Jaewon Yang (KDD 2021)

[When is Deep Learning the Best Approach to Knowledge Tracing?](#)

Theophile Gervet, Ken Koedinger, Jeff Schneider, Tom Mitchell (JEDM 2020)

[Autonomous Graph Mining Algorithm Search with Best Speed/Accuracy Trade-off](#)

Minji Yoon, **Theophile Gervet**, Christos Faloutsos (ICDM 2020)

[TarMAC: Targeted Multi-Agent Communication](#)

Abhishek Das, **Theophile Gervet**, Michael Rabbat, Joelle Pineau (ICML 2019)