Vincent **Micheli**

PHD CANDIDATE IN GENERATIVE MODELLING FOR DECISION MAKING

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About

I am finishing my PhD in the Machine Learning Group at the University of Geneva. My advisor is François Fleuret and my research is supported by the Swiss NSF. I am currently working on World Models for Decision Making.

Education

PhD in Generative Modelling for Decision Making
Geneva, Switzerland

UNIVERSITY OF GENEVA
January 2021 - May 2025

- Research centered around World Models, Reinforcement Learning, Imitation Learning, Autoencoders, Transformers.
- Reviewer for NeurIPS, ICLR and ICML.
- Speaker for seminars and workshops about Generative AI.
- Head TA: 13X005 *Artificial Intelligence: principles and methods* - 11X001 *Introduction to programming and algorithms*.

MsC in Data Science
Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)
September 2018 - September 2020

- Relevant coursework: Machine Learning, Deep Learning, Reinforcement Learning, Natural Language Processing, Time Series, Data Analysis.

BsC in Computer Science and Communication Systems
Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)
September 2015 - September 2018

- Relevant coursework: Stochastic Models, Linear Models, Database Systems, Functional Programming.

Professional Experience

Wayve
London, United Kingdom

RESEARCH SCIENTIST INTERN - RESEARCH SCIENTIST
August 2024 - April 2025

- Research efforts on stable and interactive world models.

Microsoft Research
Montreal, Canada

RESEARCH SCIENTIST INTERN
May 2023 - August 2023

- Research efforts on retrieval-augmented agents.

Illuin Technology
Paris, France

RESEARCH INTERN
February 2020 - August 2020

- Research efforts on efficient language models.

Selected Papers

Transformers are Sample-Efficient World Models
ICLR 2023 (Oral), NeurIPS DRLW 2022 (Best paper)

VINCENT MICHELI, ELOI ALONSO, FRANÇOIS FLEURET

Efficient World Models with Context-Aware Tokenization
ICML, 2024

VINCENT MICHELI, ELOI ALONSO, FRANÇOIS FLEURET

Diffusion for World Modeling: Visual Details Matter in Atari
NeurIPS (Spotlight), 2024

ELOI ALONSO, ADAM JELLEY, VINCENT MICHELI, [...], FRANÇOIS FLEURET

Language Models are Few-Shot Butlers
EMNLP, 2021

VINCENT MICHELI AND FRANÇOIS FLEURET

On the importance of pre-training data volume for compact language models
EMNLP, 2020

VINCENT MICHELI, MARTIN D'HOFFSCHMIDT, FRANÇOIS FLEURET