

Ramzi Dakhmouche

Curriculum Vitae

Lausanne, Switzerland
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Research Interests

Robust Learning, Uncertainty Quantification, Large Language Models, Network Systems, ML for Science, ML for Computational Biology, ML for Healthcare Wearables, ML for Energy Analytics

Education

- 2023 - 2027 **PhD in Machine Learning**, *École Polytechnique Fédérale de Lausanne, Switzerland*, Advisors: Dr. Hossein Gorji & Prof. Clément Hongler, Topic: *Reliable Learning for Large Language Models and Network Time Series*.
- 2022 **MSc in Machine Learning**, *École Normale Supérieure Paris-Saclay, France*, summa cum laude.
- 2020 **BSc in Mathematics**, *Université Paris-Saclay, France*, summa cum laude.

Research & Work experience

- 2023 **Munich Center for Space Communications, Germany**, *Research fellow*, Topic: Reinforcement Learning for Optimal Frequency Allocation.
- 2022 **Ericsson Research Stockholm, Sweden**, *Master thesis, under the supervision of, Dr. Filippo Vannella*, Topic: Bayesian Experimental Design for Network Optimization.

Fellowships & Grants

Robust Learning Summer School Organization Grant ~ 25000 USD
M. Capital Investments Master's Research Grant ~ 12000 USD
Fondation Mathématique Jacques Hadamard Master's **Excellence Fellowship**: ~ 25000 USD

Publications & Working Papers

- Ramzi Dakhmouche, Ivan Lunati, and Hossein Gorji. Noise Tolerance of Distributionally Robust Learning. In The Fourteenth International Conference on Learning Representations ICLR, 2026.
- Ramzi Dakhmouche, Adrien Letellier, and Hossein Gorji. "Can Linear Probes Measure Large Language Models Uncertainty?" *Conference on Neural Information Processing Systems NeurIPS MLxOR*, 2025.
- Ramzi Dakhmouche, Ivan Lunati, and Hossein Gorji. "Network System Forecasting Despite Topology Perturbation." *International Conference on Machine Learning SIM*, 2025.
- Fatmazohra Rezkellah* and Ramzi Dakhmouche*. "Adversarial Robustness via Constrained

Interventions on LLMs." *Conference on Neural Information Processing Systems COML*, 2025.

- Ramzi Dakhmouche, Ivan Lunati, and Hossein Gorji. "Robust Symbolic Regression for Dynamical System Identification." *Transactions on Machine Learning Research*, 2025.
- Ramzi Dakhmouche and Hossein Gorji. "Why Can't Neural Networks Master Extrapolation? Insights from Physical Laws." *Conference on Neural Information Processing Systems ML4PS*, 2025.
- Ramzi Dakhmouche, Ivan Lunati, and Hossein Gorji. "Scalable Uncertainty-Aware Symbolic Regression for Explainable Time Series Forecasting." In Preparation.
- Ramzi Dakhmouche, Ivan Lunati, and Hossein Gorji. "Robust Symbolic Regression for Network Trajectory Inference." *International Conference on Learning Representations MLGenX*, 2024.

Service

2025 - 2026 **President of SIAM EPFL Chapter**, Awarded ~ 5500 USD to organize Industry Collaboration Events.

Programming Skills

Programming: Python, C++, R, Matlab, SQL, PL/SQL.

Languages

- English: **Fluent**
- French: **Fluent**
- German: **Basic**

Other Interests

Historical novels, jogging, chess.