

Salem Lahlou

Assistant Professor of Machine Learning

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Research interests : AI for science tools, generative flow networks, LLM Reasoning.

Experience

- Sep 2024 – **Assistant Professor of Machine Learning**, MBZUAI, Abu Dhabi.
- 2024 **Senior Researcher**, *Technology Innovation Institute*, Abu Dhabi.
- 2017 **Data Scientist**, *Booking.com*, Amsterdam.

Internships

- 2020 **Researcher**, *Google Research*, Paris.
- 2015 **Researcher**, *IBM Research*, Singapore.
- 2014 **Data Scientist**, *Infosys*, Bangalore.

Education

- 2018 – 2023 **Mila - Université de Montreal**, *Montréal - Canada*, PhD, Supervisor : Yoshua Bengio.
- 2015 – 2016 **Ecole Normale Supérieure**, *Cachan - France*, M.Sc.
- 2012 – 2016 **Ecole Polytechnique**, *Palaiseau - France*, M.Sc.

Selected publications (* denotes equal contribution in authorship)

- 2023 **A Theory of Continuous Generative Flow Networks**, Salem Lahlou, Tristan Deleu, Pablo Lemos, Dinghui Zhang, Alexandra Volokhova, Alex Hernández-García, Lena Nehale Ezzine, Yoshua Bengio, Nikolay Malkin. *ICML 2023*.
- 2022 **GFlowNets and variational inference**, Nikolay Malkin*, Salem Lahlou*, Tristan Deleu*, Xu Ji, Edward Hu, Katie Everett, Dinghui Zhang, Yoshua Bengio. *ICLR 2023*.
- 2022 **GFlowNet Foundations**, Yoshua Bengio*, Salem Lahlou*, Tristan Deleu*, Edward J. Hu, Mo Tiwari, Emmanuel Bengio. *JMLR 2023*.
- 2021 **DEUP : Direct Epistemic Uncertainty Estimation**, Salem Lahlou*, Moksh Jain*, Hadi Nekoei, Victor I Butoi, Paul Bertin, Jarrid Rector-Brooks, Maksym Korablyov, Yoshua Bengio. *TMLR 2023*.
- 2018 **BabyAI : A Platform to Study the Sample Efficiency of Grounded Language Learning**, Maxime Chevalier-Boisvert*, Dzmitry Bahdanau*, Salem Lahlou, Lucas Willems, Chitwan Saharia, Thien Huu Nguyen, Yoshua Bengio. *ICLR 2019*.
- 2016 **A Nash equilibrium formulation of a tradable credits scheme for incentivizing transport choices : From next-generation public transport mode choice to HOT lanes**, Salem Lahlou, Laura Wynter. *Transportation Research Part B 2017*.