

Massimo Caccia

Curriculum Vitae

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Education

- 2017–present **PhD, Computer Science**, *Université of Montréal, Quebec Artificial Intelligence Institute (Mila)*.
Currently focused on Continual Learning
- 2013–2017 **Master of Science, Financial Engineering**, *HEC Montréal*.
Thesis: Option Pricing and Hedging for Discrete Time Autoregressive Hidden Markov Model
- 2010–2013 **Bachelor of Science, Mathematics & Finance**, *Université de Montréal*.
With honors. Topics: Actuarial science, Financial mathematics, Statistics, and more

Publications

In Conference Proceedings

- 2020 **Massimo Caccia**, Pau Rodriguez, Oleksiy Ostapenko, Fabrice Normandin, Min Lin, Lucas Caccia, Issam Laradji, Irina Rish, Alexandre Lacoste, and David Vazquez. Online fast adaptation and knowledge accumulation: a new approach to continual learning. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2020.
- 2020 **Massimo Caccia***, Lucas Caccia*, William Fedus, Hugo Larochelle, Joelle Pineau, and Laurent Charlin. Language gans falling short. In *International Conference on Learning Representation (ICLR)*, 2020.
- 2020 Alexandre Lacoste, Pau Rodríguez, Frédéric Branchaud-Charron, Parmida Atighehchian, **Massimo Caccia**, Issam Laradji, Alexandre Drouin, Matt Craddock, Laurent Charlin, and David Vázquez. Symbols: Probing learning algorithms with synthetic datasets. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2020.
- 2020 Lucas Caccia, Eugene Belilovsky, **Massimo Caccia**, and Joelle Pineau. Online learned continual compression with adaptative quantization module. In *International Conference on Machine Learning (ICML)*, 2020.
- 2019 Rahaf Aljundi*, Lucas Caccia*, Eugene Belilovsky*, **Massimo Caccia***, Min Lin, Laurent Charlin, and Tinne Tuytelaars. Online continual learning with maximal interfered retrieval. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2019.

Book Chapters

- 2018 **Massimo Caccia** and Bruno Rémillard. Option pricing and hedging for discrete time autoregressive hidden markov model. In *Innovations in Insurance, Risk- and Asset Management*. Springer Proceeding in Mathematics & Statistics, 2018.

Workshops Papers

- 2020 **Massimo Caccia**, Pau Rodriguez, Oleksiy Ostapenko, Fabrice Normandin, Min Lin, Lucas Caccia, Issam Laradji, Irina Rish, Alexandre Lacoste, David Vazquez, et al. Online fast adaptation and knowledge accumulation: a new approach to continual learning. *CVPR Workshop on Continual Learning*, 2020.
- 2019 Cem Subakan*, **Massimo Caccia***, and Laurent Charlin. Continual learning of generative models with maximum entropy generative replay. In *ICML Workshop on Continual Learning*, 2019.

- 2019 Rahaf Aljundi*, Lucas Caccia*, Eugene Belilovsky*, **Massimo Caccia***, Min Lin, Laurent Charlin, and Tinne Tuytelaars. Online continual learning with maximal interfered retrieval. In *ICML Workshop on Continual Learning (Spotlight Talk)*, 2019.
- 2018 **Massimo Caccia***, Lucas Caccia*, William Fedus, Hugo Larochelle, Joelle Pineau, and Laurent Charlin. Language gans falling short. In *NeurIPS Workshop on Critiquing and Correcting Trends in Machine Learning (Spotlight Talk)*, 2018.

Work Experience

- January 2020 **Deep Learning Researcher**, *ElementAI*.
 – present Developing novel machine learning algorithms, particularly deep learning models for continual learning.
- September 2016 – present **Deep Learning Researcher**, *Quebec Artificial Intelligence Institute (Mila)*.
 Developing novel machine learning algorithms, particularly deep learning models for continual learning.
- June 2017 – **Deep Learning Intern**, *Spotify*.
 August 2017 Applying deep learning solutions for music recommendations.
- July 2015 – **Data Scientist**, *LightspeedPOS*.
 September 2016 Using data mining, machine learning and data engineering for data-driven decision making. Mainly working in Python.
- July 2014 – **Quantitative Analyst — Algorithmic Trading**, *Nymbus Capital*.
 April 2015 Researching new algorithmic trading strategies in the futures market (commodities, fixed income and currencies) using financial modelling and machine learning. Mainly working in Matlab and C#.
- January 2012 **Assistant Investment Consultant (internship)**, *AON*.
 – June 2012

Organization

- 2020 **CVPR Workshop on Continual Learning (CLVision)**, *Challenge Chair*.

Awards & Scholarships

- 2016 **EY's Entrepreneurship Bursary**, EY's Bursary program aims to reward the students with the best business plan.
- 2015 **Health Promotion Innovation Challenge**, Hackaton focused on health promotion. Grand Prize for the application "SocialAngel".
- 2015 **The Canadian Derivatives Exchange Scholars Program**, Scholarship awarded to the most innovative research project on derivatives in Canada.
- 2015 **Financiere Sun Life Scholarship (M.Sc.)**, Bursary awarded to the students who are working on risk management related to insurance and who demonstrate exceptional skills and/or results.
- 2015 **Departement of Management Science Scholarship**, Awarded to top students in the department of Decision Sciences.
- 2014 **Fondation Francis et Genevieve Melançon Scholarship**, Awarded to top students at HEC Montréal.

Teaching Assistantship

- Fall, 2020 **Machine Learning**, HEC Montréal.
- Fall, 2019 **Machine Learning**, HEC Montréal.
- Winter, 2016 **Financial Mathematics**, HEC Montréal.
- Fall, 2015 **Statistics, Financial Mathematics**, HEC Montréal.
- Winter, 2015 **Calculus**, HEC Montréal.

Fall, 2014 **Business Analytics**, HEC Montréal.



Reviewing

Conferences

2020 **NeurIPS, IJCAI.**

Workshops

2020 **MAIS, LifelongML (ICML), CL-ICML (ICML), CLVISION (CVPR).**

2019 **MAIS.**