

Michael Arbel

Curriculum Vitae

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Education

- 09-2016 **Gatsby Computational Neuroscience Unit, PhD in Machine Learning**, UK.
- 09-2020 Adversarial metrics for unsupervised learning. Supervisor: Arthur Gretton
- 09-2014 **École Normale Supérieure de Cachan, MSc in Computer Science, MVA**, France.
- 08-2015 Graphical Models, Deep Neural Networks, Reinforcement Learning, Object Recognition.
- 09-2011 **École Polytechnique, Ingénieur de l'École Polytechnique, Mathematics and Physics**.
- 08-2014 Statistical Learning & Nonparametric Estimation, Operations Research, Stochastic Calculus

Work experience

- 09-2017 **Teaching Assistant, UCL**.
 - present - Probabilistic and Unsupervised Learning
 - Advanced Topics in Machine Learning
 - DeepMind/CSML Seminars: Help organizing weekly seminars on topics in Machine Learning.
- 10-2015 **Computer Vision Engineer, Chronocam**.
- 09-2016 Developed multi-target tracking algorithms for neuromorphic event-based cameras.
- 04-2015 **Graduate Student Researcher, Data Team DI**, ENS Paris.
- 09-2015 Studied the dynamics of recurrent networks that capture long-range dependencies in simple grammars. Supervisor: Stéphane Mallat.
- 04-2014 **Graduate Student Researcher, ORFE**, Princeton University.
- 06-2014 Proved an existence and uniqueness result for a class of mean field games with dependence on the control. Supervisor: René Carmona.

Publications

- 2018 **Michael Arbel**, Arthur Gretton. Kernel Conditional Exponential Family. *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics, AISTATS 2018*
- 2018 Dougal J. Sutherland, Heiko Strathmann, **Michael Arbel**, Arthur Gretton. Efficient and principled score estimation. *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics, AISTATS 2018*
- 2018 Mikołaj Bińkowski, Dougal J. Sutherland, **Michael Arbel**, Arthur Gretton. Demystifying MMD GANs. *Submitted to ICLR 2018*

Competitions and Awards

- 2011–2015 French Government Eiffel Excellence Scholarship
- 2014 Award of Financial Risk Chair of École Polytechnique for the research internship
- 2013 Award for "Outstanding Position Paper" at Model United Nation, New York.
- 2009 Participation to International Mathematical Olympiads, Germany.

Computer Skills

- Basic HTML, SQL
- Intermediate Java, R, Lua
- Advanced Python, C++, Matlab, \LaTeX , Git

Languages

- English **Proficiency Level**
- French **Mother tongue**
- Arabic **Mother tongue**