Aude Genevay

born 27/12/1991 in Bourgoin-Jallieu (France)
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Research Positions

2019 - **Postdoctoral Researcher - CSAIL, MIT**
Optimal Transport and Machine Learning
Under supervision of J. Solomon, GDP group

Education

2015 - 2019 **PhD in Mathematics - U. Paris Dauphine**
« Entropy-Regularized Optimal Transport for Machine Learning »
Under supervision of G. Peyré - PhD grant from Région Ile de France

2013-2015 **ENSAE ParisTech - Engineering degree - Major in Machine Learning, minor in Economics**
Member of the student's team for data science competitions (Data Science Game)

2014-2015 **Master M2 MASH Machine Learning and Applications - ENS Cachan & U. Paris Dauphine**
Summa Cum Laude - Rank : 1/20
Thesis : « Transfer Learning for spoken dialogue systems »

2013-2014 **Master M2 EDP-MAD Mathematical Modeling - U. ParisDauphine**
Summa Cum Laude (no ranking)
Thesis : « Matching with unobserved heterogenity »

2012-2013 **Master M1 MMD Mathématiques Appliquées - U. Paris Dauphine**
Summa Cum Laude - Rank : 1/140

2011-2012 **Licence L3 MIDO Mathématiques Appliquées - U. Paris Dauphine**
Magna Cum Laude - Rank : 6/120

Awards - Grants

2017 Google PhD Fellowship

2015 Région Ile de France PhD Grant

2012-2014 Master's grant from Fondation Sciences Mathématiques Paris (for academic excellence)

Research Internships

May-Aug. 2019 **Google Paris** - advised by J.P. Vert
Learning deep embedding for clustering high-dimensional data
Application to plankton images
Tensorflow + Keras implementation from scratch

May-Sept. 2015	**Orange Labs** - advised by R. Laroche
	Reinforcement Learning for spoken dialogue systems
	Java implémentation of a dialogue simulator
	Redaction of a paper accepted at AAMAS 2016
June-Sept. 2014	**INRIA Roquencourt** - advised by G. Carlier and J.-D. Benamou
	Numerical methods for optimal transport, applications to the matching problem
July-Aug. 2012	**U. Paris Dauphine** - advised by F. Forges
	Repeated bayesian games

Publications

- A. Genevay, L. Chizat, F. Bach, M. Cuturi, G. Peyré « **Sample Complexity of Sinkhorn Divergence** » In *: International Conference on Artificial Intelligence and Statistics, 2019 (to appear)*

- A. Genevay, M. Cuturi, G. Peyré « **Learning Generative Models with Sinkhorn Divergences** » In *: International Conference on Artificial Intelligence and Statistics, 2018. p. 608-1617.*

- A. Genevay, M. Cuturi, G. Peyré, & F. Bach « **Stochastic Optimization for Large-scale Optimal Transport** » In : *Advances in Neural Information Processing Systems, 2016. p. 3440-3448.*

- A. Genevay & R. Laroche, « **Transfer Learning for User Adaptation in Spoken Dialogue Systems** » In : *Proceedings of the 2016 International Conference on Autonomous Agents & Multiagent Systems. International Foundation for Autonomous Agents and Multiagent Systems*, 2016. p. 975-983.

Teaching

2017 - 2019	Machine Learning (M1 Info - Ecole Normale Supérieure)
2016 - 2017	Numerical Optimization (L3 Mido - U. Paris Dauphine)
	Machine Learning (M1 MMD - U. Paris Dauphine)
2015 - 2016	Lebesgue Integration (L3 Mido - U. Paris Dauphine)
	Introduction to probability theory (L1 Mido - U. Paris Dauphine)

Service

NeurIPS reviewer	2018, 2019
AISTATS reviewer	2019
ICML reviewer	2019

Additional Skills

Languages   English - fluent (numerous stays in the US)
German - conversational (numerous stays in Germany)

Programming   Python (Scikit-learn, Tensorflow, Keras, Pytorch) (thousands of lines)
Matlab, Java, R (basic knowledge)

Other Interests   Cycling, Hiking, Swimming, Cross-country skiing