

YACINE JERNITE

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EDUCATION

2012-Current New York University, Courant Institute of Mathematical Science, New York, USA
PhD. candidate Computer Science · *Description:* Work on inference and natural language, with a special interest to medical applications. Advisor: Prof. David SONTAG
2011-2012 Ecole Normale Supérieure, Cachan, France
M.Sc. Applied Mathematics · Master MVA · *Description:* Master in applied mathematics focused on machine learning, machine vision and neuroscience.
2008-2011 Ecole Polytechnique, Palaiseau, France
M. Sc. Computer Science · Diplôme d'ingénieur · *Description:* Multidisciplinary formation in sciences, with a focus on mathematics and computer science.

SELECTED PAPERS

ArXiv 2017 GROUNDED RECURRENT NEURAL NETWORKS
A.Vani, Y.Jernite, D.Sontag, *under review*
ArXiv 2017 DISCOURSE-BASED OBJECTIVES FOR FAST UNSUPERVISED SENTENCE
REPRESENTATION LEARNING
Y.Jernite, S.Bowman, D.Sontag, *under review*
ICML 2017 SIMULTANEOUS LEARNING OF TREES AND REPRESENTATIONS FOR EXTREME
CLASSIFICATION AND DENSITY ESTIMATION
Y.Jernite, A.Choromanska, D.Sontag, in *34th International Conference on Machine Learning*
ICLR 2017 VARIABLE COMPUTATION IN RECURRENT NEURAL NETWORKS
Y.Jernite, E.Grave, A.Joulin, T.Mikolov, in *5th International Conference on Learning Representations*
AAAI 2016 CHARACTER-AWARE NEURAL LANGUAGE MODELS
Y.Kim, Y.Jernite, D.Sontag, S.Rush, in *30th AAAI Conference on Artificial Intelligence*
ICML 2015 A FAST VARIATIONAL APPROACH FOR LEARNING MARKOV RANDOM FIELD
LANGUAGE MODELS
Y.Jernite, S.Rush, D.Sontag, in *32nd International Conference on Machine Learning*
AOAS 2014 THE RANDOM SUBGRAPH MODEL FOR THE ANALYSIS OF AN ECCLESIASTICAL
NETWORK IN MEROVINGIAN GAUL
Y.Jernite, P.Latouche, C.Bouveyron, P.Rivera, L.Jegou, S.Lamasse, in *Annals of Applied Statistics 2014*
NIPS 2013 DISCOVERING HIDDEN VARIABLES IN NOISY-OR NETWORKS USING QUARTET
TESTS
Y.Jernite, Y.Halpern, D.Sontag, in *26th Neural Information Processing Systems*
*NIPS 2013
Workshop* PREDICTING CHIEF COMPLAINTS AT TRIAGE TIME IN THE EMERGENCY
DEPARTMENT
Y.Jernite, Y.Halpern, S.Horng, D.Sontag, in *NIPS 2013 Workshop on Machine Learning for Clinical Data Analysis and Healthcare, Dec. 2013*

OTHER RESEARCH ACTIVITIES

<i>Reviewing Activities</i>	<i>2014-current</i>	Program Committee
		ACL (2015, 2016, 2017), ICML (2014, 2017), NIPS (2016, 2017), AMIA (2016), MLHC (2016)
<i>Teaching Assistant</i>	<i>Sep-Dec 2014</i>	Inference and Representation, NYU
		I was in charge of recitations for the graduate level class "Inference and representation" taught by Prof. David SONTAG
<i>BIDMC hospital</i>	<i>2013-2016</i>	Beth Israel Deaconess Medical Center, Harvard Medical School
		Periodic collaborations with Dr. Stephen HORNG and the medical informatics team at the Emergency Department of BIDMC hospital to improve the user interface of their Electronic Medical Record system by taking advantage of NLP and machine learning techniques.
<i>Universite Paris Sorbonne</i>	<i>Mar-Aug 2012</i>	Research assistant, Universite Paris Sorbonne
		Joint work with a mixed team of historians and statisticians to devise a probabilistic graphical model and inference algorithm explaining a network of relations between political figures in the Middle Ages. Advisors: Prof. Pierre LATOUCHE and Charles BOUYEYRON
<i>Princeton University</i>	<i>May-Jul 2011</i>	Visiting scholar, Princeton university
		Work on the effect of Bootstrapping methods on the LDA model, and on mixtures of Latent Dirichlet Allocations. Advisor: Prof. David BLEI

OTHER INFORMATION

<i>Programming Languages</i> <i>Languages</i>	PYTHON/PYTORCH/TENSORFLOW, LUA/TORCH, C++, JAVA, CAML, R
	English · French · German · Spanish (intermediate) · Arabic (beginner)