Yacine Jernite

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Education

New York University, Courant Institute of Mathematical Science *New York, NY, USA*

PHD. IN COMPUTER SCIENCE *May 2019*

Work on inference and natural language, with a special interest to medical applications. Advisor: Prof. David Sontag

Ecole Normale Superieure *Cachan, France*

M.SC. IN APPLIED MATHEMATICS *August 2012*

Master MVA: Master in applied mathematics focused on machine learning, machine vision and neuroscience

Ecole Polytechnique *Palaiseau, France*

DIPLOME D'INGENIEUR *August 2011*

Multidisciplinary formation in sciences, with a focus on mathematics and computer science

Research and Teaching Experience

Facebook *New York, NY*

POSTDOCTORAL RESEARCHER, FAIR *Feb. 2018 - PRESENT*

• Work on unsupervised text summarization, long form question answering, and natural language interactions between human and machine

Harvard Medical School, Beth Israel Deaconess Medical Center *Boston, MA*

RESEARCH ASSISTANT *Sep. 2013 - May 2016*

• 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

New York University *New York, NY*

TEACHING ASSISTANT *Sep. - Dec. 2014*

• Inference and Representation: I was in charge of devising a material for and teaching recitations for the graduate level class "Inference and representation" taught by Prof. David Sontag

Universite Paris Sorbonne *Paris, France*

RESEARCH ASSISTANT *Mar. - Aug. 2012*

• 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 Bouveyron

Princeton University *Princeton, NJ*

VISITING SCHOLAR *May. - Jul. 2011*

• Work on the effect of Bootstrapping methods on the LDA model, and on mixtures of Latent Dirichlet Allocations. Advisor: Prof. David Blei

Selected Publications

Aug. 2019 **Unsupervised Text Summarization via Multi-Model Back-Translation** *Under Review*

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Jul. 2019 **ELI5: Long Form Question Answering** *ACL 2019*

A. Fan, Y. Jernite*, E. Perez*, D. Grangier, J. Weston, M. Auli

May 2019 **CraftAssist Instruction Parsing: Semantic Parsing for a Minecraft Assistant** *Arxiv*

Y. Jernite*, K. Srinet*, J. Gray, A. Szlam

Jan. 2018 **Learning Representations of Text through Language and Discourse Modeling: From Characters to Sentences** *PhD. Thesis*

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Aug. 2017	**Simultaneous Learning of Trees and Representations for Extreme Classification and Density Estimation** Y. Jernite, A. Chotomanska, D. Sontag	*ICML 2017*
May. 2017	**Discourse-Based Objectives for Fast Unsupervised Sentence Representation Learning** Y. Jernite, S. Bowman, D. Sontag	*Arxiv*
Apr. 2017	**Variable Computation in Recurrent Neural Networks** Y. Jernite, E. Grave, A. Joulin, T. Mikolov	*ICLR 2017*
Feb. 2016	**Character-Aware Neural Language Models** Y. Kim, Y. Jernite, D. Sontag, A. Rush	*AAAI 2016*
Jul. 2015	**A Fast Variational Approach for Learning Markov Random Field Language Models** Y. Jernite, A. Rush, D. Sontag	*ICML 2015*

Other Information

Programming Languages	Python · PyTorch · TensorFlow · C++ · Java · R
Reviewing Activities	ACL · EMNLP · ICML · ICLR · NAACL · NeurIPS
Languages	English · French · German (intermediate) · Spanish (intermediate) · Arabic (beginner)