Étienne Simon
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Education

Ph.D. Deep Learning for Unsupervised Relation Extraction *2017–2022*
Supervised by Benjamin Piwowarski, Vincent Guigue at LIP6&ISIR, Sorbonne University, France

Master (M.Sc.) in Mathematics *2015–2016*
Mathematic Vision Learning (MVA) at École Normale Supérieure (ENS) Cachan, France

Master (M.Sc.) in Computer Science *2012–2014*
Parisian Master of Research in Computer Science (MPRI) at École Normale Supérieure (ENS) Cachan and Pierre-et-Marie-Curie University (UPMC), France

Licence (B.Sc.) in Computer Science *2009–2012*
Prepared at Pierre-et-Marie-Curie University (UPMC), Paul Sabatier University (UPS), France, and Queen Mary University of London (QMUL), United Kingdom

Experiences

Machine Translation with Memory Network *2016*
Facebook AI Research, Paris with Holger Schwenk

Application of Deep Learning to Variable Length Sequences *2014–2015*
Application to neural machine translation and trajectory prediction
MILA, Montreal with Yoshua Bengio

Reasoning on Representations Learnt by Neural Networks *2014*
LIP6, Paris with Patrick Gallinari and Benjamin Piwowarski

Publications

On the use of datasets' topology to identify relational information *2023*
Second half of my PhD thesis, publication planned for 2023.

Deep Learning for Unsupervised Relation Extraction *2022*
My PhD thesis.

Fine-tuning and Sampling Strategies for Multimodal Role Labeling of Entities under Class Imbalance CONSTRAINT *2022*
with Syrielle Montariol, Arij Riabi, and Djamé Seddah

Unsupervised Information Extraction: Regularizing Discriminative Approaches with Relation Distribution Losses ACL *2019*
with Vincent Guigue and Benjamin Piwowarski

Neural Machine Translation with Memory Network Based Attention *2017*
with Holger Schwenk

Theano: A Python framework for fast computation of mathematical expressions *2016*
with Al-Rfou, Rami et al. (The Theano Development Team)

Artificial Neural Networks Applied to Taxi Destination Prediction ECML/PKDD *2015*
with Alex Auvolat, Alexandre de Brébisson, Pascal Vincent and Yoshua Bengio

Miscellaneous

Winner of the Kaggle Competition ECML/PKDD 15: Taxi Trajectory Prediction (I) with Alex Auvolat and Alexandre de Brébisson
Teacher (*colleur* and *moniteur*) at lycée Louis-le-Grand and Sorbonne University
Author of algorithmic challenges for the CNED/CAPES (secondary-school teacher certification mock exams) and Isograd (Battle Dev, Meilleur Dev de France, etc)
Google Summer of Code implemented an action planning and management system in C++
Associations member of the jury, secretary and co-founding member of several associations around computer science (BSD France, Prologin, GCC, Prix Bernard Novelli, GICS, Comput'yourself)