

Houssam Zenati

RESEARCH ENGINEER STUDENT · COMPUTER VISION · DEEP LEARNING · MACHINE LEARNING

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Education

MVA - École Normale Supérieure Paris-Saclay

M.SC. IN COMPUTATIONAL AND APPLIED MATHEMATICS

- Machine Learning, Applied Mathematics, Computer Vision

Paris, France

Sept. 2018 - Present

CentraleSupélec - Centralien curriculum

M.ENG./B.ENG. IN APPLIED MATHEMATICS

- Probability Theory, Statistics, Numerical Analysis, Algorithms, Software Engineering. B.Eng. obtained in Sept. 2016

Paris, France

Sept. 2015 - Present

Lycée Louis Le Grand

PREPARATORY CLASSES (CPGE MPSI/MP*)

- Fundamental Mathematics, Physics, Engineering and Computer Science: General Algebra, Linear Algebra, Numerical Analysis

Paris, France

Sept. 2013 - July 2015

Experience

IBM Research, AI

RESEARCH INTERN, REINFORCEMENT LEARNING

- Deep Reinforcement learning: learning control policies for constrained robotics problem

Tokyo, Japan

June 2018 - August 2018

Institute for Infocomm Research, A*STAR

RESEARCH INTERN, COMPUTER VISION, DEEP LEARNING

- Anomaly detection using Generative Adversarial Networks, Semi-supervised learning with Generative Adversarial Networks, Saddle-point problems in machine learning

Singapore

Aug 2017 - May 2018

Research

CONFERENCE

- International Conference on Data Mining**, Zenati, H.*, Romain, M.*, Foo, C.S.*, Lecouat, B. and Chandrasekhar V. 2018, *Adversarially Learned Anomaly Detection, in the Proceedings of IEEE ICDM 2018* Singapore
- International Conference on Learning Representations**, Lecouat, B.*, Foo, C.S.*, Zenati, H. and Ramaseshan V. 2018, *Semi-Supervised Learning With GANs: Revisiting Manifold Regularization, ICLR 2018, Workshop Track* Vancouver, Canada
- Neural Information Processing Systems**, Lecouat, B., Chang, K., Foo, C.S., Unnikrishnan, B., Brown, J., Zenati, H., Beers, A., Chandrasekhar, V., Kalpathy-Cramer J. and Krishnaswamy P. 2018, *Semi-Supervised Deep Learning for Abnormality Classification in Retinal Images, (ML4H) Workshop at NeurIPS 2018* Montréal, Canada

PRE-PRINTS

- Arxiv Preprint**, Mertikopoulos, P., Lecouat, B., Zenati, H., Foo, C.S., Chandrasekhar V. and Piliouras G. 2018, *Mirror descent in saddle-point problems: Going the extra (gradient) mile, arXiv preprint, arXiv:1807.02629*
- Arxiv Preprint**, Zenati, H., Lecouat, B., Foo, C.S., Manek, G. and Chandrasekhar V. 2018, *Efficient GAN-Based Anomaly Detection, arXiv preprint, arXiv:1802.06222*

Awards

- 2018 **IEEE ICDM**, Student Travel Award Singapore
- 2017 **SIPGA**, Awardee of Singapore International Pre-Graduate Award Singapore