






Imtiaz Masud Ziko

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



Education

- May 2016 – July 2020 (Expected)  **Ph.D., Machine Learning**, École de Technologie Supérieure (ETS), Montréal, Canada.
Thesis title: *Flexible and Scalable Models for Clustering and Few-Shot Learning*.
- Sept 2012 – Oct 2014  **M.Sc. Norwegian University of Science and Technology, University of Granada and University Jean Monnet**.
Erasmus Mundus masters in Color in Informatics and Media Technology (CIMET) specializing in computer vision.





Employment History

- Jan 2015 – Dec 2015  **Lecturer**. Computer Science Department, American International University-Bangladesh.
- Jan 2014 – Jul 2014  **Research Intern**. Hubert Curien Laboratory – UMR CNRS 5516, France.
- Oct 2010 – Dec 2010  **Software Developer (intern)**. Right Brain Solution Ltd, Bangladesh.

Research Publications

- 1 Boudiaf, M., Rony, J., **Ziko, I. M.**, Granger, E., Pedersoli, M., Piantanida, P., & Ayed, I. B. (2020). Metric learning: Cross-entropy vs. pairwise losses [Spotlight presentation]. *European Conference on Computer Vision (ECCV)*.  <https://arxiv.org/pdf/2003.08983.pdf>
- 2 **Ziko, I. M.**, Dolz, J., Granger, E., & Ayed, I. B. (2020). Laplacian regularized few-shot learning. *International Conference on Machine Learning (ICML)*.  <https://arxiv.org/pdf/2006.15486.pdf>
- 3 **Ziko, I. M.**, Granger, E., Yuan, J., & Ayed, I. B. (2020). Variational fair clustering.  <https://arxiv.org/pdf/1906.08207.pdf>
- 4 **Ziko, I. M.**, Granger, E., & Ayed, I. B. (2018). Scalable laplacian k-modes [Spotlight presentation]. *Neural Information Processing Systems (NeurIPS)*.  <https://papers.nips.cc/paper/8208-scalable-laplacian-k-modes.pdf>
- 5 **Ziko, I. M.**, Beigpour, S., & Hardeberg, J. Y. (2014). Design and creation of a multi-illuminant scene image dataset. *International Conference on Image and Signal Processing (ICISP)*.  https://link.springer.com/chapter/10.1007/978-3-319-07998-1_61

Skills

- | | |
|-------------------------|--|
| Coding |  Python, C++, MATLAB, |
| Deep Learning Libraries |  PyTorch, Tensorflow |
| Misc. tools |  PyCharm, Streamlit, Git version control, Inkscape, \LaTeX , Numpy, Numba, JIT, Multiprocessing, Cython, Scipy, Opengl, OpenMP, Scikit-learn, Cuda kernel, Matplotlib. |
| Databases |  MySQL, SQLite. |

Skills (continued)

Web Dev	📌	HTML, CSS, PHP, JavaScript, Codeigniter.
Languages	📌	English, French (basic), Bengali (native).
Organizer	📌	IPTA 2017 (ETS), ICT FEST 2011 (IUT)
Review activity	📌	MIDL 2020, MAIS 2020, ICCV 2019, IPTA 2018, 2017.
Research	📌	Unsupervised/Semi-supervised Learning, Constraint Clustering, Few-shot Learning, Fairness in learning, Domain Adaptation, Metric Learning, Scalable and efficient learning models, Convex optimization, Variational inference models.

Miscellaneous Experience

Awards

2016 – 2020	📌	PHD fellowship , ETS.
2012 – 2014	📌	Erasmus Mundus Category A scholarship of an amount of 48,000 Euros for Master program by European Commission, selected among 500 candidate.

Talks

July 2020	📌	<i>Laplacian Regularized Few-shot Learning</i> at ICML 2020 (Virtual).
Dec 2019	📌	<i>Fairness in unsupervised Learning</i> at CAÉC ÉTS, Montréal.
Dec 2018	📌	<i>Scalable Laplacian K-modes</i> at Neurips 2018, Montréal.