Imtiaz Masud Ziko

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Education

May 2016 – July 2020 — **Ph.D.,Machine Learning, École de Technologie Supérieure (ETS)**, Montréal, Canada.
Thesis title: Flexible and Scalable Models for Clustering and Few-Shot Learning.
Thesis advisor: Ismail Ben Ayed, ETS Montreal.
External committee member: Jean-Christophe Pesquet, University Paris-Saclay, Inria.

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.
Courses: C/C++, Algorithms, Computer Graphics, Computer vision and pattern recognition.

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 and Interest

Coding — Python, C++, MATLAB,
Deep Learning Libraries — PyTorch, Tensorflow

Skills and Interest (continued)

Misc. tools	PyCharm, Streamlit, Git version control, Inkscape, LaTeX, Numpy, Pandas, Numba, Multiprocessing, Cython, Scipy, Opengl, OpenMP, Scikit-learn, Cuda kernel, MatplotLib.
Databases	MySQL, SQLite.
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 Interests	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.
Interests and Hobbies	Reading, Guitar playing, Sports – soccer, cricket, pool, badminton etc., traveling, hiking.

Miscellaneous Experience

Awards

2020	Nominated for **ETS Award of Excellence** for the best doctoral dissertation.
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	*Laplacian Regularized Few-shot Learning* at ICML 2020 (Virtual).
Dec 2019	*Fairness in unsupervised Learning* at CAÉC ÉTS, Montréal.
Dec 2018	*Scalable Laplacian K-modes* at Neurips 2018, Montréal.