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, Linux, 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)
Research Interest	Unsupervised/Semi-supervised Learning, Constraint Clustering, Few-shot Learning, Fairness in learning, Domain Adaptation, Metric Learning, Representation Learning, Scalable and efficient learning models, Convex optimization, Variational inference models.

Miscellaneous Experience

Awards and Achievements

- 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.

References

Available on Request