






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 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.  <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. *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. |
| Web Dev |  HTML, CSS, PHP, JavaScript, Codeigniter. |
| Languages |  English, French (basic), Bengali (native). |

Skills (continued)

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| 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

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| 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

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| 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. |

References

Available on Request