Arman Afrasiyabi | CV

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Education

- **Université Laval**
  Ph.D. in Electrical Engineering (2017-now)
  Advisors: Jean-François Lalonde and Christian Gagné

- **Middle East Technical University**
  - *Ph.D in Computer Engineering (2015-2017); 2yr of course load and research*
  - *Master in Bioelectrical Engineering (2013-2015)*

  Advisor: Fatoş T. Yarman Vural

- **Azad University-Shabestar**
  Bachelor in Computer Engineering (2005-2009)

Publications

- A. Afrasiyabi, JF. Lalonde, and C. Gagné. "Persistent Mixture Model Networks for Few-Shot Image Classification." arXiv preprint arxiv.org/abs/2011.11872. Nov, 2020.
- A. Afrasiyabi, JF. Lalonde, and C. Gagné. "Associative Alignment for Few-shot Image Classification." European Conference on Computer Vision, 2020. **Spotlight (5% acceptance rate)!**
- A. Afrasiyabi, D. Badawi, B. Nasir, O. Yildi, FT. Yarman Vural, AE. Çetin. "Non-Euclidean Vector Product for Neural Networks." International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018.
- A. Afrasiyabi, O. Yildiz, B. Nasir, FT. Yarman Vural, A. E. Cetin. "An Energy Efficient Additive Neural Network-Archive", Signal Processing and Communications Applications (SIU), 2017.
- A. Afrasiyabi, I. Onal, FT. Yarman Vural. "A Sparse Temporal Mesh Model for Brain Decoding", International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), Stanford University, 2016.
- A. Afrasiyabi, I. Onal, FT. Yarman Vural. "Effect of Voxel Selection on Temporal Mesh Model for Brain Decoding", International Workshop on Machine Learning for Understanding the Brain, 2016.

Scholarships

Mitacs, NSERC Canada Scholarships (2018-2020)
Tübitak Scholarship (2014-2017)

Experiences

- **Accepted Events**
  - Deep Learning and Reinforcement Learning Summer School (CIFAR-MILA 2020)
  - Poster presentation of "Associative Alignment for Few-shot Image Classification" (Montreal AI Symposium 2020)
- **Research Assistants**
  - Deep learning in Meta-Learning (few-shot learning) (2017, now)
  - Hierarchical Representation and Transfer Learning using Deep Learning on Brain (2016-2017)
  - Multi-layered Cognitive Learning Model (2015-2017)
  - Local Voxel Networks for Modeling and Classification of Brain Activity During Cognitive Processing, Using Brain Signals (2014-2015)
- **Teaching Assistant**
  - Deep Learning, (CEng 783; Fall 2016)
  - Pattern Recognition (CEng 564; Spring 2015)
  - Data Structures (CEng 213; Spring 2016)

Presentations

- *Associative Alignment for Few-shot Image Classification*, European Conference on Computer Vision (ECCV), Online, 2020
- *Advances in few-shot learning,* Université Laval, Seminar, 2020
- *Neural Turing Machines: NTM and DNC,* Université Laval, Seminar, 2018
- *Deep Learning and Visualization Techniques,* METU Image Lab. 2017

Expertise and Languages

- **Expertise**
  - Pattern Recognition
  - Deep Machine Learning
  - Transfer Learning
  - Meta-Learning
- **Languages**
  - Azerbaijani/Turkish (Native or bilingual proficiency)
  - English (Professional working proficiency)
  - Persian (Full professional proficiency)