Arman Afrasiyabi | CV

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Education

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

- **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. "Associative Alignment for Few-shot Image Classification." arXiv preprint arXiv:1912.05094. **This work got accepted in ECCV-2020 as a spotlight (5% acceptance rate)!**

- A. Afrasiyabi, D. Badawi, B. Nasir, O. Yildi, FT. Yarman Vural, and 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, and A. E. Cetin. "An Energy Efficient Additive Neural Network-Archive", Signal Processing and Communications Applications (SIU), 2017.

- A. Afrasiyabi, I. Onal, and FT. Yarman Vural. "A Sparse Temporal Mesh Model for Brain Decoding", International Conference on Cognitive Informatics and Cognitive Computing (ICCI*CC), 2016. **This work presented in Stanford University.**

- A. Afrasiyabi, I. Onal, and 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)