

# Arman Afrasiyabi | CV

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## Education

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- **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

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- 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

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Mitacs, NSERC Canada Scholarships (2018-2020)

Tübitak Scholarship (2014-2017)

## Experiences

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### 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

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

## Expertise and Languages

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### 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)