

Armin Moharrer

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EDUCATION

- **Northeastern University**, Boston, MA
Ph.D. Candidate in Electrical & Computer Engineering Jan 2016 – Jan 2021 (Expected)
GPA: 4.0/4.0
Courses: Deep Learning, Information Theory, Big Data & Sparsity, Advanced Machine Learning
Research: Leveraging Sparsity for the Design of Massively Distributed Optimization Algorithms
Supervisor: Prof. Stratis Ioannidis
- **Northeastern University**, Boston, MA
Master of Science in Electrical & Computer Engineering Jan 2016 – May 2018
GPA: 4.0/4.0
Courses: HPC, Numerical Optimization, Machine Learning, Applied Prob. & Stochastic Process.
Thesis Title: Distributing Frank-Wolfe via map-reduce
- **Amirkabir University of Technology**, Tehran, Iran
Bachelor of Science in Electrical Engineering Sep 2011 – Sep 2015
GPA: 18.12/20.00
Ranked 15-th among 120 students of 2015 class.

EXPERIENCE

- **Liminal Sciences**, Palo Alto, CA
Machine Learning Engineer (Internship) May 2020-Present
Work on a variety of neural networks and machine learning models for analysing time-series data via Tensor-Flow.

COMPUTER SKILLS

- **Languages:** Python, C/C++
- **Parallel Computing:** Apache Spark, OpenMP, MPI
- **Other:** Keras, PyTorch, TensorFlow, TensorFlow-Probability, MATLAB, Latex, Linux, Tmux, Microsoft Office, Microsoft PowerPoint

PUBLICATIONS

Conference

- Milad Mahdian, Armin Moharrer, Stratis Ioannidis, Edmund Yeh. "Kelly Cache Networks." In *International Conference on Computer Communication (INFOCOM)*, 2019. (AR: 19.7%)
- Armin Moharrer and Stratis Ioannidis. "Distributing Frank-Wolfe via Map-Reduce." In *International Conference on Data Mining (ICDM)*, 2017. (**Selected among the "Best Papers of ICDM 2017"**, AR: 9.25%)

Journal

- Armin Moharrer, Jasmin Gao, Shikun Wang, José Bento, Stratis Ioannidis. "Massively Distributed Graph Distances.", (*to be published in*) *IEEE Transactions on Signal Processing over Networks*, 2020

- Armin Moharrer and Stratis Ioannidis. “Distributing Frank-Wolfe via Map-Reduce.” In *Knowledge and Information Systems (KAIS)*, 2019.

EXPERIENCE & PROJECTS

Research Assistant, Northeastern University, Boston, MA

Jan 2016-present

- Work on a variety of optimization algorithms, with applications ranging from experimental design, graph mining tasks, caching in communication networks, regression problems, etc.

Course Projects

- HPC: Implement the consensus ADMM algorithm for logistic regression using MPI
- Deep Learning: Incorporate GNN-extracted node embedding in our framework for measuring distances between graphs

PRESENTATIONS

- Poster Session, New England Machine Learning Day, Microsoft, Cambridge, MA May 2018
 - Distributing Frank-Wolfe via Map-Reduce
- Paper Presentation, ICDM 2017, New Orleans, LA Nov 2017
 - Distributing Frank-Wolfe via Map-Reduce

TEACHING

Teaching Assistant, Northeastern University, Boston, MA

Spring 2017

- Parallel Processing for Data Analytics

Mentor, Northeastern University, Boston, MA

Summer 2017 and Summer 2018

- Research Experience for Undergraduates (REU) Program