

Armin Moharrer

amoharrer@ece.neu.edu

EDUCATION

- **Northeastern University**, Boston, MA
Ph.D. Candidate in Electrical & Computer Engineering Jan 2016 – Apr 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 May 2020-Nov 2020
Machine Learning Engineer (Internship)
Work on a variety of deep neural networks and machine learning models for analyzing time-series data, e.g., EEG data, via Tensor-Flow.
- **Northeastern University**, Boston, MA Jan 2016-present
Research Assistant (Ph.D. student)
Work on a variety of optimization algorithms, with applications ranging from experimental design, graph mining tasks, influence maximization, caching in communication networks, regression, etc.

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

- Khashayar Kamran, Armin Moharrer, Stratis Ioannidis, Edmund Yeh, "Rate Allocation and Content Placement in Cache Networks", In *International Conference on Computer Communication (INFOCOM)*, 2021
- Gözde Özcan, Armin Moharrer, Stratis Ioannidis, "Submodular Maximization via Taylor Series Approximation", In *SIAM International Conference on Data Mining (SDM)* 2021

- 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.”, *IEEE Transactions on Signal and Information Processing over Networks*, 2020
- Armin Moharrer and Stratis Ioannidis. “Distributing Frank-Wolfe via Map-Reduce.” In *Knowledge and Information Systems (KAIS)*, 2019.

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

REVIEWING TASKS

Reviewer for IEEE Transactions on Signal and Information Processing over Networks and SDM
2021