

## Armin Moharrer

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### EDUCATION

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- **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

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- **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, caching in communication networks, regression problems, etc.

### COMPUTER SKILLS

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- **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

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#### 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*  
2017

*Spring*

- Parallel Processing for Data Analytics

*Mentor, Northeastern University, Boston, MA*

*Summer 2017 and Summer 2018*

- Research Experience for Undergraduates (REU) Program

#### REVIEWING

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