

Armin A. Rad

Data Scientist

Ph.D. VirginiaTech university

2/17/2018

Personal Website: <http://www.arminrad.com>

LinkedIn: <https://www.linkedin.com/in/armin-ashoury-rad-11512947/>

Gitlab: <https://gitlab.com/users/armin.ashoury/projects>

Google Scholar: https://scholar.google.com/citations?user=zyqz_yoAAAAJ

Phone: (540)-922-3443

ashouri@mit.edu

ashouri@vt.edu

Fields of Interests:

- Data Analysis
- Machine Learning
- Predictive Modeling
- Data pipeline and ETL
- Data visualization

Technical Tools:

- Apache Spark processing engine
- Python, R and Scala programming languages
- MySQL, Hive and PostgreSQL database management systems
- Pandas, scikit-learn, NumPy and SciPy data analysis and scientific computing tools
- matplotlib and ggplot data visualization tools
- Data-Driven Documents (d3) data visualization tool
- AWS Elastic MapReduce (EMR) cloud computing system
- AWS Relational Database Service (RDS) cloud storage system
- AWS Simple Storage Service (s3) cloud storage system
- AWS Server-less Lambda Service

Employment:

- **Data Scientist & Optimization Specialist, Wise Systems Inc., Cambridge, MA, USA** (May 2016-Present)
 - **Data Engineer (Part Time Contractor, Massachusetts Institute of Technology (MIT) and Web of Science collaborative research), MIT, Cambridge, MA, USA** (Aug 2016-Jan 2017)
 - **Data Analyst (Part Time Contractor, Dell and Virginia Polytechnic Institute and State University collaborative research), Dell co., Houston, TX, USA** (Jan 2016-Mar 2017)
 - **Simulation Modeler and Consultant (Part Time Contractor), Infinite Analytics Inc., Cambridge, MA, USA** (Jun 2016-Aug 2016)
 - **Optimization Specialist (internship), Wise Systems Inc., Cambridge, MA, USA**
 - **Graduate Research and Teaching Assistant, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA** (May 2015-Jul 2015)
(Jan 2012-Dec 2015)
-

Education:

- **Ph.D. in Industrial and Systems Engineering** (2012-2016)
Virginia Polytechnic Institute and State University, Blacksburg, VA, USA
Dissertation Topic: Three Essays on Dynamics of Online Communities
Funded by National Science Foundation, Innovation and Organizational Sciences.
Grant # 102741
Committee members:
 - Hazhir Rahmandad (Chair), *Albert and Jeanne Clear Career Development Professor and an Associate Professor of System Dynamics at the MIT Sloan School of Management*
 - Mohammad Mahdian, *Staff Research Scientist at Google Co.*
 - Konstantinos P. Triantis, *John Lawrence Professor of Industrial and Systems Engineering at Virginia Polytechnic Institute and State University*
 - Navid Ghaffarzadegan, *Assistant Professor of Industrial and Systems Engineering at Virginia Polytechnic Institute and State University*
- **M.Sc. in Systems Engineering** (2008-2011)
Sharif University of Technology, Tehran, Iran
- **B.Sc. in Industrial Engineering** (2003-2008)
Iran University of Science and Technology, Tehran, Iran

Papers and Publications:

- **How Exposure to Different Opinions Impacts the Life Cycle of Social Media**, *Annals of Operations Research, BOM in Social Networks*, pp 1–29
 - **Dell's SupportAssist Customer Adoption Model: Enhancing the Next Generation of Data-Intensive Support Services**, *Proceedings of the 36th International Conference of the System Dynamics*
 - **Information diffusion through social networks: the case of an online petition**, *Expert Systems with Applications* 44, 187-197
 - **Detection, classification, and mapping of U.S. traffic signs using Google street view images for roadway inventory management**, *Springer Journal of Visualization in Engineering* 3 (15), 1-18
 - **Estimating the Dynamics of Individual Opinions in Online Communities**, *Proceedings of the International System Dynamics Conference, Delft*
 - **Reconstructing online behaviors by effort minimization**, *Social computing, behavioral-cultural modeling and prediction*, 75-82
 - **Information Diffusion through Social Networks**, *Proceedings of the 33rd International Conference of the System Dynamics*
 - **Single-machine batch scheduling minimizing weighted flow times and delivery costs**, *Applied Mathematical Modeling* 35 (1), 563-570
 - **Developing a Conceptual Framework for Simulation Analysis in a Supply Chain Based on Common Platform (SCBCP)**, *Journal of applied research and technology* 7 (2), 163-184
 - **Computer programming for Industrial and System Engineering Students**, *Book in Farsi (ISBN: 978-964-2831-69-2)*
 - **Three Essays on Dynamics of Online Communities**, *2016 Ph.D. thesis*
-