

# Mozhgan Azimpourkivi

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**Professional Summary:** I am a PhD candidate in computer science at Florida International University. My research interest includes, machine learning, deep neural networks, usable security, mobile authentication, image data protection, secure image matching, verifiability in social media, and computational intelligence.

## Education

2012-present	PhD Candidate in Computer Science (GPA 3.9) <b>Florida International University</b>
2012-2015	Master of Science in Computer Science (GPA 3.9) <b>Florida International University</b>
2009-2011	Master of Science in Information Technology (GPA 3.9) <b>Sharif University of Technology</b>
2005-2009	Bachelor of Science in Software Engineering (GPA 3.4) <b>Alzahra University</b>

## Skills

**Programming:** Java, Python, SQL, Android Development, R, C, C++, C#

**Web Development:** HTML, PHP and JavaScript

**Software Design:** Enterprise Architecture, Rational Rose and Papyrus

**Other Tools/Software:** Tensorflow, Apache Hive, AWS, Matlab, Weka and Neo4j

## Relevant

### Experience

October 2015 –  
December 2015

#### **Data Science Intern | JWPlayer | New York**

- Reverse engineering ad-servers to find out whether the content (video) or the user is targeted by ad-servers, using the data of millions of ad pings and EM algorithm.

- Investigating the metadata (text, etc.) of the targeted contents (using NLTK, word2vec and scikit-learn) to evaluate if there is a relationship between the metadata of videos and ad impression for over 5 different ad-servers.

- Ad-impression forecasting using machine learning methods in Python.

## Academic

### Experiences

Summer 2013 & 2014

**NSF - DOD REU asset site graduate student mentor** | Florida International University

“Social bot” and “Reducing social network risks for adolescents” projects

Fall 2012 – Spring  
2015

**Lab Instructor and Teaching Assistant** | Florida International University  
Java Programming, Computer Data Analysis, Introduction to Microcomputers, Introduction to Computer Security

Fall 2009 – Spring  
2011

**Teaching Assistant**  
Statistics and Probability for Engineers, Numerical Analysis

## Publications

- Book Chapter** R. Potharaju, B. Carbutar, **M. Azimpourkivi**, V. Vasudevan, S.S. Iyengar. “Infiltrating Social Network Accounts: Attacks and Defenses”. Book chapter in Springer’s Secure System Design and Trustable Computing, C.-H. Chang and M. Potkonjak (eds.), 2016.
- Journal Paper** **M. Azimpourkivi**, U. Topkara, and Bogdan Carbutar, “Camera Based Two Factor Authentication Through Mobile and Wearable Devices”, Proc. ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) and ACM Joint Conference on Pervasive and Ubiquitous Computing (UbiComp), Sep. 2017.
- M. Rahman, **M. Azimpourkivi**, U. Topkara, and Bogdan Carbutar “Video Liveness for Citizen Journalism: Attacks and Defenses”, IEEE Transactions on Mobile Computing, March 2017.
- I. Khalkhali, R. Azmi, **M. Azimpour-Kivi** and M. Khansari, “Host-based Web Anomaly Intrusion Detection System, an Artificial Immune System Approach,” International Journal of Computer Science Issues, vol. 8, no. 5, Sep. 2011.
- Conference Paper** **M. Azimpourkivi**, U. Topkara, and Bogdan Carbutar, “A Secure Mobile Authentication Alternative to Biometrics”, accepted in Annual Computer Security Applications Conference (ACSAC), Dec. 2017, Orlando, FL.
- M. Rahman, **M. Azimpour-kivi**, U. Topkara and B. Carbutar, "Liveness Verifications for Citizen Journalism Videos", In Proceedings of the 8th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec), June 2015, New York, NY.
- M. Azimpour-Kivi** and R. Azmi, “Applying Sequence Alignment in Tracking Evolving Clusters of Web Sessions Data, an Artificial Immune Network Approach,” in Third International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN), 2011, Bali, Indonesia.
- M. Azimpour-Kivi** and R. Azmi, “A Webpage Similarity Measure for Web Sessions Clustering Using Sequence Alignment,” in International Symposium on Artificial Intelligence and Signal Processing (AISP), 2011, Tehran, Iran.
- M. Azimpour-Kivi**, R. Azmi and S. Ghorbani Faal, “Artificial immune systems (AIS) for classification and its application to anomaly detection.” in 4th Iran data mining Conference, 2010, Tehran, Iran.
- Posters and Workshop** P. Jain, Sh. Chen, **M. Azimpourkivi**, D. H. Chau and B. Carbutar, “Spotting Suspicious Reviews via (Quasi-)clique Extraction”, 36th IEEE Symposium on Security and Privacy (IEEE S&P), May 2015, San Jose, CA.
- M. Azimpour-Kivi**, U. Topkara, M. Rahman, B. Carbutar, “The Usability of a Mobile Device Liveness Analysis Application”, The 21st Annual Network & Distributed System Security Symposium (NDSS), Feb. 2014, San Diego, CA.
- Khalkhali, H. Bazrafkan, M. Iranmanesh, G. Javadzadeh, **M. Azimpour-kivi**, “Security in Web applications, intrusion and prevention methods”, 2nd Lahijan National Conference on Software Engineering (LNCSE), 2012, Iran.
- Award and Honors** Best poster presentation award, Grad Student Appreciation Week 2016 Scholarly Forum. Florida International University: **M. Azimpourkivi**, U. Topkara, and B. Carbutar, “It’s on You: Trinket-based Mobile Authentication”.