Alireza Hajibagheri

4000 Central Florida Blvd, Orlando, FL, 32816

+1 407-617-0301 • hajibagheri@knights.ucf.edu

www.linkedin.com/in/alirezahajibagheri

I'm a Computer Science PhD actively seeking a full-time position in industry. Passionate about science, with professional experience, strong technical and interpersonal skills.

Education

- **University of Central Florida** — **Orlando, FL, USA**
  PhD of Computer Science , GPA: 3.7 — *2013–Present*
- **Shiraz University** — **Shiraz, Iran**
  Master of Computer Science, GPA: 3.81 — *2010–2012*
- **Shiraz University** — **Shiraz, Iran**
  Bachelor of Computer Software Engineering, GPA: 3.4 — *2005–2009*

Experience

- **University of Central Florida, IAL Lab** — **Orlando, FL**
  Graduate Research Assistant — *January 2013–Present*

  I have been working on leveraging data mining and machine learning techniques for Social Media Analysis. Lately, my work has been centered on analyzing multiplayer online games which can help us better understand human relationships.
- **Corvana** — **Orlando, FL**
  Machine Learning Intern — *May 2016–August 2016*

  Designed and implemented fast anomaly detection algorithms for streaming data analysis. Models were benchmarked against state-of-the-art to ensure accuracy and scalability. Codes were written in Java, python and scala and were run over large scale data.
- **Salesforce** — **San Francisco, CA**
  Data Scientist Intern — *May 2015–August 2015*

  During my internship at Salesforce, I prepared >30 GB user history data and performed ETL with Spark RDD transformations, actions and Spark SQL. Also, I evaluated feature importance related to Salesforce's S1 mobile platform user churn rate, using Random Forest (Sklearn) and Regularized Logistic Regression (Spark, Sklearn). The results where then presented as insights in an interactive user-friendly Web-page search engine (Python cherry-py, elastic search). Along with all data preparation and machine learning tasks, I was able to use R Shiny to create interactive apps in order to represent results from several experiments I applied on our datasets (Decision Trees and K-means clustering). Finally, we were able to predict user churn rate using General Additive Models, combined with feature clustering, to understand non-linear patterns between user churn rate and related monthly platform usage features.
- **AVA Afzar Co.** — **Shiraz, Iran**
  Web and Software Developer, Project Manager — *October 2007–December 2012*

I started as a software and web developer helping my company to improve user interface and performance of our library management system called AvaLib. After three years of hard work, I became the project manager for the same software. Perl, HTML and jQuery were mostly used as programming languages and MySQL as database management system for this project. AvaLib is now using in several major universities in Iran. In addition to AvaLib, I also designed and implemented an integrated system to send advertisement text messages for Fars Post Organization using C# and SQL Server.

Technical and Personal skills

- **Programming Languages:** Java (Expert), Perl (Experienced), Python (Experienced), R(Experienced), C/C++ (Experienced), C# (Experienced), Matlab, PHP
- **Databases:** MySQL (Expert), MS SQL Server (Experienced), NoSQL (Familiar), MongoDB (Familiar)
- **Web Programming Skills:** HTML (Expert), JavaScript (Experienced), jQuery (Experienced), PHP, ASP.NET
- **Miscellaneous:** Spark (Experienced), Hadoop (Familiar), Android SDK (Beginner), Python Sklearn (Experienced), Numpy/Scipy (Experienced), R Shiny (Experienced), WEKA (Experienced), Microsoft Visual Studio, Eclipse, NetBeans, PyCharm, Linux SHELL programming (Experienced), Photoshop

Honors and Awards

- **University of Central Florida's Graduate Dean's Dissertation Completion Fellowship**
- **Best Paper Award**, AISP Conference 2012, Shiraz, Iran
- **Top Student**, Artificial Intelligence Course (2008)
- **Top Student**, Internet Engineering Course (2008)
- **Ranked 17 in the Asia ACM Programming context** among 107 teams (2006)

Publications

- **A. Hajibagheri**, G. Sukthankar, K. Lakkaraju, "Extracting Information from Negative Interactions in Muliplex Networks using Mutual Information", SBP 2017, Washington D.C., USA
- **A. Hajibagheri**, G. Sukthankar, K. Lakkaraju, "A Holistic Approach for Multiplex Link Prediction", SocInfo 2016, Bellevue, WA, USA
- **A. Hajibagheri**, G. Sukthankar, K. Lakkaraju, "A Holistic Approach for Predicting Links in Coevolving Multilayer Networks", DyNo 2016, San Francisco, CA, USA
- H. Alvari, **A. Hajibagheri**, G. Sukthankar, K. Lakkaraju, "Identifying Community Structures in Dynamic Networks", Social Network Analysis and Mining (SNAM) 2016
- **A. Hajibagheri**, G. Sukthankar, K. Lakkaraju, "Leveraging Network Dynamics for Improved Link Prediction", SBP 2016, Washington D.C., USA
- **A. Hajibagheri**, K. Lakkaraju, G. Sukthankar, RT. Wigand, N. Agarwal, "Conflict and Communication in Massively-Multiplayer Online Games", SBP 2015, Washington D.C., USA
- H. Alvari, **A. Hajibagheri**, G. Sukthankar, "Community detection in dynamic social networks: A game-theoretic approach", ASONAM 2014, Beijing, China
- AM. Ali, H. Alvari, **A. Hajibagheri**, K. Lakkaraju, G. Sukthankar, "Synthetic Generators for Cloning Social Network Data", Social Informatics 2014, Harvard University, MA, USA
- **A. Hajibagheri**, G. Sukthankar, "Political Polarization over Global Warming: Analyzing Twitter Data on Climate Change", SocialCom 2014, Stanford University, CA, USA
- **A. Hajibagheri**, A. Hamzeh, G. Sukthankar, "Modeling Information Diffusion and Community Membership using Stochastic Optimization", ASONAM 2013, Niagara Falls, Canada
- **A. Hajibagheri**, H. Alvari, A. Hamzeh, S. Hashemi, "Community Detection in Social Networks Using Information Diffusion", ASONAM 2012, Istanbul, Turkey
- **A. Hajibagheri**, H. Alvari, A. Hamzeh, S. Hashemi, "Social Networks Community Detection Using the Shapley Value", AISP 2012, Shiraz, Iran, IEEE Indexed, **Best Paper Award**