Omid Askarisichani

+1 (805) 886 7101 6520 El Colegio Rd, Apt 2308, Santa Barbara, CA 93106. omid55@cs.ucsb.edu GoogleScholar LinkedIn

Education

Ph.D. - Computer Science (GPA: 4.0/4.0), UC Santa Barbara, California — Expected: Sept 2020
M.Sc. - Computer Engineering (GPA: 4.0/4.0), Sharif University of Technology, Tehran, Iran — Feb 2014
B.Sc. - Software Engineering (GPA: 3.86/4.0), University of Isfahan, Isfahan, Iran — Jul 2011

Selected Publications

1. O. AskariSichani, M. Jalili, " **Large-scale Global Optimization through Consensus of Opinions Over Networks,**" *Journal of the Complex Adaptive Systems Modeling*, *Springer*, 1(1):11, 2013. **Link** **Git**
2. SM Hill, LM Heiser, T Cokelear, M Unger, D Carlin, Y Zhang, A Sokolov, E Paull, CK Wong, K Graim, A Bivol, H Wang, F Zhu, B Afsari, LV Danilova, AV Favorov, W Lee, D Taylor, HPN-DREAM Consortium (O. AskariSichani), GB Mills, JW Gray, M Kellen, T Norman, S Friend, EJ Fertig, Y Guan, M Song, J Stuart, H Koeppl, PT Spellman, G Stolovitzky, J Saez-Rodriguez, and S Mukherjee " **Inferring causal molecular networks: empirical assessment through a community-based effort,**
Nature Methods, Feb 2016. **Link** **Source**
3. M. Jalili, O. AskariSichani, Xinghuo Yu " **Optimal pinning controllability of complex networks: Dependence on network structure,**" *Journal of Physical Review E*, (PRE), Vol. 91, No. 1, Page 012803, *American Physical Society*, DOI:10.1103/PhysRevE.91.012803,
http://link.aps.org/doi/10.1103/PhysRevE.91.012803, 2015. **Link** **Source**
4. O. AskariSichani, M. Jalili, " **Influence Maximization of Informed Agents in Social Networks,**" *Journal of Applied Mathematics and Computation*, (AMC), Vol. 254, Pages 229-239, 3/1/2015, *Elsevier*,
http://www.sciencedirect.com/science/article/pii/S0096300314018001, 2015. **Link** **Git**
5. **A Team-Based Organizational Model for Adaptive Multi Agent Systems,** *ICAART - Proceedings of the 3rd International Conference on Agents and Artificial Intelligence*, 2011. **Link** **Git**
6. V. Amelkin, O. Askarisichani, Y. J. Kim, A. K. Singh, T. W. Malone, " **Dynamics of Collective Performance in Collaboration Networks,**" *XXXVI Sunbelt Conference*, **Link**, page 6, April 2016.

Awards

Awarded **5 Years** Fully-Funded Scholarship & **Computer Science Fellowship** in UC Santa Barbara, Sept 2015.
Ranked $\mathbf{1}_{st}$ in Bio-Informatics HPN-DREAM Consortium Breast Cancer Network Inference Challenge, Feb 2014.
Awarded a Fully-Funded **Research Scholarship** of Max Planck Institute, Tüebingen, Germany, Sept 2013.
Ranked $\mathbf{1}_{st}$ in B.Sc. within a class of 47, Department of Computer Engineering, Jul 2011.
Ranked $\mathbf{4}_{th}$ in M.Sc. within a class of 56, Department of Computer Engineering, Feb 2013.
Awarded **Fellowship of Exceptional Talents** for M.Sc. Program in Sharif University of Technology, Sept 2011.

Scientific Activities

Reviewer for: Journal of ACM Transactions on Knowledge Discovery from Data — 2014 - Present
Reviewer for: Journal of Complex Networks, Oxford University Press — 2013 - Present
Founder of: Java Agent Development Framework (JADE) Facebook Page — 2010 - Present *Elected President:*Scientific Society of University of Isfahan Computer Science Students — 2013
*Researcher in:*Isfahan Math House (IMH) — 2010 - 2011

Skills

Programming Languages: **JAVA**, **C++**, C#, **MATLAB**, C, **Python**, SQL, PL/SQL, T-SQL, ASP, PHP, JSP, Prolog, Ruby, Visual Basic, Pascal, R.
Development Software Packages: Microsoft .Net, **Windows Presentation Framework (WPF)**, **Windows Communication Foundation (WCF)**, Microsoft Entity Framework, **JavaFX**, **Hibernate**, Java Persistence, Java JFrame, Maven, **Swing**, Applet, REST, JSON, JAX-RS, C++ Graphical Design with **MFC**, Qt, Oracle Development Kit, **Oracle Form**, Android Programming.
Programming Paradigms: Object-Oriented Programming, Agent-Oriented Programming, Service-Oriented Programming.
Subversion Softwares: **Git**, TortoiseSVN.
Database Management Systems (DBMS): **Oracle**, **Microsoft SQL(MSSQL)**, PostgreSQL, MySQL, Microsoft Access.
Cloud and Parallel Servers: Google App Engine Programming, Oracle (Sun) Grid Engine.
Deep Learning, *Machine Learning and Datamining:* **Big Data Analysis using Google TensorFlow**, **WEKA in JAVA**, Rapid Miner, Clementine, Theano, Caffee, and also fMRI & DTI brain image analysis using FSL and DPABI and experienced programming with Spark in Hadoop.
Network Science: **Stanford Network Analysis Project (SNAP)**, MATLAB BGL, Gephi, Pajek, NodeXL.
Optimization: **MATLAB CVX**, **Mosek**, Gurobi.
Multi Agent Development: **Java Agent Development Framework (JADE)**, Repast Simphony.
Operating Systems: Windows, **Linux**, Linux Server, Windows Server.

Work Experience

- University of California at Santa Barbara, CA
  - *Research Assistant* September 2015 – Present
- **Software Architect**
  Hekmat Iranian Bank, Tehran, Iran Jan 2015 - Aug 2015
- **Researcher**
  Max Planck Institute for Intelligent Systems, Empirical Inference Department, Tüebingen, Germany Sept 2013 - Jan 2014
- **Intern**
  International Systems Engineering and Automation Company (IRISA) Company, Isfahan, Iran Jun 2011 - Sept 2012
- **Database Consultant**
  Rena Technical Services Company, Karaj, Iran Jul 2011 - Oct 2011

Notable Projects

- Adaptive Multi Agent System Toolbox **Git**
  Software Designer and Developer 2009 – 2011
- Software for Traffic Police Law Enforcement Device
  Software Designer and Developer 2008 – 2009
- Multi Agent System for City Traffic and Routing Simulation **Git**
  Software Designer and Developer 2010 – 2011
- Real Estate Management Software **Git**
  Software Designer and Developer 2009
- Service-Oriented Recommender System Software with Linked-Data Technology **Git**
  Software Designer and Developer 2010
- Time Series Forecasting in Business Intelligence Software **Git**
  Developer 2011

References

- **Ambuj K. Singh**, *Professor and Chair in Computer Science Department, UCSB*, (805) 893 3236, office: 3119 Harold Frank Hall, **ambuj@cs.ucsb.edu**
- **Manuel Gomez Rodriguez, PhD**, *Tenure-track Research Group Leader, Max Planck Institute for Software Systems (MPI-SWS)*, +49 (7071) 601 - 541, office: Paul-Ehrlich-Strasse, 67663 Kaiserslautern, DE, **manuelgr@mpi-sws.org**
- **Mahdi Jalili, PhD**, *Assistant Professor, Department of Computer Engineering, Sharif University of Technology*, (+98) 21 - 66166 - 6636, **mjalili@sharif.edu**

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