**Samer Al-Khateeb**

**Ph.D. in Computer and Information Sciences** expected Fall 2017

**Education**

University of Arkansas at Little Rock Little Rock, Arkansas

Concentration: Information Science

GPA: 4.0/4.0

**Master of Science in Applied Science** Summer 2015

University of Arkansas at Little Rock Little Rock, Arkansas

Concentration: Information Science

GPA: 4.0/4.0

**Bachelor of Science in Computer Science** Spring 2013

University of Arkansas at Little Rock Little Rock, Arkansas

Major: Computer Science

Minor: Electronics & Computer Engineering Technology

GPA: 3.78/4.0

**Research Interest**

Social Network Analysis (SNA)

Deviant Behavioral Modeling

Deviant Cyber Flash Mobs (DCFMs)

Cyber Propaganda Campaigns

Social Cyber Forensics (SCF)

Social Computing

Data Mining In Social Media

Cyber Collective Actions

Bots Behaviors, Evolution, and Detection

**Teaching Assistant of System Analysis and Design (IFSC 3360)** Fall 2017

**Academic Experience**

*Department of Information Science, University of Arkansas at Little Rock*

**Teaching Assistant of Information System Analysis (IFSC 7310)** Spring 2016,Spring 2017

*Department of Information Science, University of Arkansas at Little Rock*

**Teaching Assistant of Social Computing (IFSC 4360/5360)** Fall 2016

*Department of Information Science, University of Arkansas at Little Rock*

**Teaching Assistant of Social Media Mining and Analytics (IFSC 4399/5399)** Fall 2015

*Department of Information Science, University of Arkansas at Little Rock*

**Lab Instructor of Physics for Scientists and Engineers II** Summer 2014, Fall 2014, Spring 2015

*Department of Physics and Astronomy, University of Arkansas at Little Rock*

**Tutor of Physics for Scientists and Engineers I & II** Fall 2012, Spring 2013

*Department of Physics and Astronomy, University of Arkansas at Little Rock*

**Computer Technician** 08/2011-05/2014

**Industrial Experience**

*Department of Applied Science, University of Arkansas at Little Rock*

**Executive Resident** 06/2013-08/2013

*DSG Consulting Inc.*

**Student Intern** 08/2012-12/2012

*University of Arkansas for Medical Science*

**Research Manager** 05/2012-08/2012

*DSG Consulting Inc.*

**Book Chapters:**

**Publications**

1. **Samer Al-khateeb**, Muhammad Hussain, and Nitin Agarwal. Chapter 12: Analyzing Deviant Socio-technical Behaviors using Social Network Analysis and Cyber Forensics-based Methodologies. In O. Savas & J. Deng, “Big Data Analytics in Cyber Security and IT Management” (ISBN: 978-1-4987-72129). New York, NY: CRC Press, Taylor & Francis.
2. **Samer Al-khateeb**, Muhammad Nihal Hussain, and Nitin Agarwal. Leveraging Social Network Analysis and Cyber Forensics Approaches to Study Cyber Propaganda Campaigns. In T. Ozyer and S. Bakshi (Eds.), "Social Network and Surveillance for Society". Lecture Notes in Social Networks, Springer. Forthcoming, 2017.

**Journal Articles:**

1. Nitin Agarwal, **Samer Al-khateeb**, Rick Galeano, and Rebecca Goolsby. Examining The Use Of Botnets And Their Evolution In Propaganda Dissemination. Journal of Defence Strategic Communications, Vol. 2. No. 2, pp. 87-112. 2017.
2. **Samer Al-khateeb**, Kevin J Conlan, Nitin Agarwal, Ibrahim Baggili and Frank Breitinger. Exploring Deviant Hacker Networks (DHN) On Social Media Platforms. Journal of Digital Forensics, Security and Law, Vol. 11. No. 2, pp. 7-20. 2016.
3. **Samer Al-khateeb** and Nitin Agarwal. Understanding Strategic Information Maneuvers in Network Media to Advance Cyber Operations: A Case Study Analyzing pro-Russian Separatists’ Cyber Information Operations in Crimean Water Crisis. Journal on Baltic Security, Vol. 2, Issue 1, pp. 6-27, 2016.
4. **Samer Al-khateeb** and Nitin Agarwal. Developing a Conceptual Framework For Modeling Deviant Cyber Flash Mob: A Socio-Computational Approach Leveraging Hypergraph Constructs. Journal of Digital Forensics, Security and Law, Vol. 9. No. 2, pp. 113-127. 2014.

**Conferences:**

1. **Samer Al-khateeb**, Muhammad Nihal Hussain, and Nitin Agarwal. When Citizen Journalism Goes Rogue: A Case Study of Anti-West Misinformation Campaigns During the 2014 Russian-Ukraine Conflict. The 5th International Conference on Bridging Gaps: Where is the Critic in Television Journalism?, Centre for Media and Celebrity Studies (CMCS), CUNY School of Journalism, August 31 – September 1, 2017, New York City, USA.
2. **Samer Al-khateeb**, Muhammad Nihal Hussain, and Nitin Agarwal. Leveraging Social Network Analysis & Cyber Forensics Approaches to Study Cyber Propaganda Campaigns. The 1st North American Social Networks Conference of the International Network For Social Network Analysis (NASN 2017), July 26 - 30, Washington DC, USA.
3. Rick Galeano, Nitin Agarwal, and **Samer Al-khateeb**. Botnets and Propaganda Dissemination. The 1st North American Social Networks Conference of the International Network For Social Network Analysis (NASN 2017), July 26 - 30, Washington DC, USA.
4. **Samer Al-khateeb**, Muhammad Nihal Hussain, and Nitin Agarwal. Social Cyber Forensics Approach to Study Twitter's and Blogs' Influence on Propaganda Campaigns. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2017), July 5 - 8, 2017, Washington D.C., USA.
5. Muhammad Nihal Hussain, Adewale Obadimu, Kiran Kumar Bandeli, Mohammad Nooman, **Samer Al-khateeb**, and Nitin Agarwal. A Framework for Blog Data Collection: Challenges and Opportunities. The IARIA International Symposium on Designing, Validating, and Using Datasets (DATASETS 2017), June 25 - 29, 2017, Venice, Italy.
6. Muhammad Nihal Hussain, Kiran Bandeli, Mohammad Nooman, **Samer Al-khateeb**, Nitin Agarwal. Analyzing the Voices during European Migrant Crisis in Blogosphere. The 2nd International Workshop on Event Analytics using Social Media Data associated with The 11th International AAAI Conference on Web and Social Media (ICWSM 2017), May 15-18, 2017, Montreal, Canada.
7. **Samer Al-khateeb**, Kevin J Conlan, Nitin Agarwal, Ibrahim Baggili and Frank Breitinger. Exploring Deviant Hacker Networks (DHN) On Social Media Platforms. In proceedings of the Eighth EAI International Conference on Digital Forensics & Cyber Crime (ICDF2C 2016), September 28-30, 2016, New York City, USA.
8. **Samer Al-khateeb** and Nitin Agarwal. The Rise & Fall of #NoBackDoor on Twitter: the Apple vs. FBI Case. In Proceedings of the International Symposium on Foundations of Open Source Intelligence and Security Informatics (FOSINT-SI 2016) co-located with the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2016), August 19-20, 2016, San Francisco, California, USA.
9. **Samer Al-khateeb**, Muhammad Nihal Hussain, and Nitin Agarwal. Exploring ISIL Cyber Network Activities: Evolution, Means, and Strategies. In the 36th International Sunbelt Social Network Conference (Sunbelt XXXVI) organized by the International Network for Social Network Analysis (INSNA), April 5-10, 2016, Newport Beach, California.
10. **Samer Al-khateeb** and Nitin Agarwal. Examining Botnet Behaviors for Propaganda Dissemination: A Case Study of ISIL's Beheading Videos-based Propaganda. In Proceedings of the Behavior Analysis, Modeling, and Steering (BEAMS 2015) co-located with the IEEE International Conference on Data Mining (ICDM 2015), November 14-17, 2015, Atlantic City, New Jersey, USA.
11. **Samer Al-khateeb** and Nitin Agarwal. Understanding Strategic Information Maneuvers in Network Media to Advance Cyber Operations. In Proceedings of the 9th International Lesson Learned Conference (ILLC2015), June 1-4, 2015, Tartu, Estonia.
12. **Samer Al-khateeb**, Engin Mendi, and Coskun Bayrak. A Comparative Analysis of Digital Filtering for Seismic Signals from Adana, Van, and Bingol Earthquakes in Turkey. In Proceedings of the International Conference on Information Processing and Control Engineering (ICIPCE-2015), April 15-17, 2015, Bauman Moscow State Technical University, Russia.
13. **Samer Al-khateeb** and Nitin Agarwal. Analyzing Deviant Cyber Flash Mobs of ISIL on Twitter. In Proceedings of the International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP15), March 31 April 3, 2015, UCDC Center, Washington DC, USA.
14. **Samer Al-khateeb** and Nitin Agarwal. Analyzing Flash Mobs in Cybernetic Space and the Imminent Security Threats: A Collective Action based Theoretical Perspective on Emerging Sociotechnical Behaviors. In Proceedings of the AAAI Spring Symposium 2015 on Socio-technical Behavior Mining: From Data to Decisions, AAAI Spring 2015 Symposium on Socio-Technical Behavior Mining, March 23-25, 2015, Palo Alto, California, USA.
15. **Samer Al-khateeb** and Nitin Agarwal. Developing a Conceptual Framework For Modeling Deviant Cyber Flash Mob: A Socio-Computational Approach Leveraging Hypergraph Constructs. In Proceedings of the 6th International Conference on Digital Forensics & Cyber Crime, September 18-19 New Haven, United States.
16. **Samer Al-khateeb** and Nitin Agarwal. Modeling Flash Mobs in Cybernetic Space: Evaluating Threats from Emerging Socio-Technical Behaviors to Human Security. In Proceedings of the IEEE Joint Intelligence and Security Informatics Conference (JISIC 2014), September 24-26, 2014, Hague, Netherlands.

**Forthcoming Publications:**

1. **Samer Al-khateeb** and Nitin Agarwal. Social Cyber Forensics and Deviant Groups: Uncovering Hidden Relations Using OSINT. Springer, forthcoming 2018.
2. Muhammad Nihal Hussain, Kiran Kumar Bandeli, **Samer Al-khateeb**, Esther Ledelle Mead, and Nitin Agarwal. Situation Awareness Through Blogs Using Blogtrackers. Journal of Information Systems Frontiers. Springer, forthcoming 2018.
3. Esther Ledelle Mead, Muhammad Nihal Hussain, Mohammad Nooman, **Samer Al-khateeb**, and Nitin Agarwal. Assessing Situation Awareness through Blogosphere: A Case Study on Venezuelan Socio-Political Crisis and the Migrant Influx. The Seventh International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2017). October 8 - 12, 2017 - Athens, Greece.
4. **Cyber-collective Movements: Novel Socio-computational Approaches in Studying the Blogosphere**. The research project is funded in part by the U.S. National Science Foundation’s (NSF) Social-Computational Systems (SoCS) Program and Human Centered Computing (HCC) Program (Award number: IIS-1110868 and IIS-1110649). Total award amount: $742,044. Project Period: 09/01/2011 - 05/31/2016.

**Participation in Federally Funded Grants**

1. **Blogtrackers: Analyzing Social Media for Cultural Modeling**. The research project is funded by the U.S. Office of Naval Research (ONR) (Award number: N00014-10-1-0091). Total award amount: $334,791. Project period: 05/01/2010 - 12/30/2013.
2. **Predictive Modeling of Cyber Flash Mobs: Understanding Emerging Socio-Technical Behaviors for Conflict Monitoring**. This project is funded by the U.S. Office of Naval Research (ONR) under Thrust Code 341 (Award number: N00014-14-1-0489). Program Officer: Dr. Rebecca Goolsby. Total award amount: $160,000. Project Period: 05/01/2014 - 09/30/2015.
3. **MRI: Acquisition of Peta-Scale Data Storage System for Big Data Exploration in STEM Fields**. The research project is funded in part by the U.S. National Science Foundation’s (NSF) Advanced Cyber infrastructure (ACI) program (Award number: ACI-1429160). Total award amount: $291,908. Project period: 09/01/2014 - 08/31/2018.
4. **A Socio-computational Model for ‘Social Bot' Detection: Understanding tactical and strategic information maneuvers through social media to advance cyber operations**. The research project is funded by the U.S. Department of Navy’s (DoN) Small Business Technology Transfer (STTR) Phase-1 grant (Award number: N00014-15-P-1187). Total award amount: $150,000. Project Period: 08/01/2015 - 08/31/2016.
5. **Data-Intensive High-Density Computational Equipment for Research on Monitoring Cyber Warfare Tactics through Social Media**. The project is funded by the U.S. Office of Naval Research (ONR) under Defense University Research Instrumentation Program (DURIP) (Award number: N00014-16-1-2016). Total award amount: $85,964. Project Period: 11/15/2015 - 12/14/2016.
6. **Towards Predictive Modeling Deviant Cyber Flash Mobs: A Socio-Informatics Driven Hypergraph Framework**. The project is funded by the U.S. Army Research Office (ARO) under Social and Cognitive Networks program within the Network Sciences division (Award number: W911NF-16-1-0189). Program Officer: Dr. Edward Palazzolo. Total award amount: $300,000. Project Period: 06/01/2016 - 05/31/2019.
7. **Analyzing Integrated Social Media-Facilitated Propaganda Campaigns using Social Network Analysis and Cyber Forensics**. This project is funded by the U.S. Office of Naval Research (ONR) under Thrust Code 341 (Award number: N00014-16-1-2412). Program Officer: Dr. Rebecca Goolsby. Total award amount: $190,000. Project Period: 05/01/2016 - 09/30/2018.
8. **Socio-computational Predictive Methods to Detect and Mitigate Bot Activity in Novel Information Environments**. The research project is funded by the DARPA Small Business Innovation Research (SBIR) Phase-2 grant (Award number: W31P4Q-17-C-0059). Total award amount: $1,000,000. Project Period: 09/01/2016 - 08/31/2019.
9. **Large-scale Medical Informatics for Patient Care Coordination and Engagement**. The research project is funded by the U.S. National Science Foundation’s (NSF) Big Data Regional Innovation Hubs (BD Spokes) program (Award number: IIS-1636933). Total award amount: $1,000,000. Project Period: 09/01/2016 - 08/31/2019.
10. **Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns**. This project is funded by the U.S. Office of Naval Research (ONR) under Thrust Code 341 (Award number: N00014-17-1-2605). Program Officer: Dr. Rebecca Goolsby. Total award amount: $1,530,778. Project Period: 06/01/2017 - 01/31/2019.

**Journal Reviewer**

**Services**

1. IEEE Transactions on Computational Social Systems
2. Springer Journal of Social Network Analysis and Mining

**Conference Program Committee Member**

1. SBP-BRiMS 2015: Social Computing, Behavioral Modeling, and Prediction.
2. SBP-BRiMS 2016: Social Computing, Behavioral Modeling, and Prediction.

**Tutorials**

1. Nitin Agarwal, **Samer Al-khateeb**, and Muhammad Nihal Hussain. A tutorial on “Social Cyber Forensics: Discovering Hidden Connections, Information Flows, And Information Actors In The Modern Information Environment” presented at the 2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation. July 5-8, 2017, Lehman Auditorium, George Washington University, Washington DC, USA
2. Nitin Agarwal, **Samer Al-khateeb**, and Muhammad Nihal Hussain. A tutorial on “Propaganda and Group Characterization” presented under RTG HFM-248 Human Networks Analysis at the NATO TIDE Sprint conference - Open Source Information (OSINF) track. October 24-28, 2016, Virginia Beach, USA.
3. Nitin Agarwal and **Samer Al-khateeb**. A tutorial on “Understanding Influence Operations of Daesh and Novorossiya through Blogs and Twitter” presented at the NATO TIDE Sprint 27 conference, April 11-15, 2016, Krakow, Poland.
4. Nitin Agarwal and **Samer Al-khateeb**. A tutorial on “Understanding Influence Operations of Daesh and Novorossiya through Blogs and Twitter” presented at the Dark Web Workshop, March 22-24, 2016, U.S. Naval Postgraduate School, Monterey Bay, California.

**Invited Presentations**

1. **Samer Al-khateeb**. A tutorial on "Gephi: For Network Data Analysis, Visualization, and Collection" presented for the IFSC 4360/5360 Social Computing at the University of Arkansas at Little Rock. October 12, 2016. Little Rock, AR, USA.
2. **Samer Al-khateeb**. A tutorial on “Network Overview Discovery and Exploration for Excel (NodeXL)” presented for the IFSC 4399/5399 Social Media Mining and Analytics Class at the University of Arkansas at Little Rock. September 28, 2016. Little Rock, AR, USA.
3. **Samer Al-khateeb**. A tutorial on "Social Cyber Forensics Analysis Using Maltego" presented for the IFSC 1105 FYE for IFSC Majors class at the University of Arkansas at Little Rock. September 20, 2016. Little Rock, AR, USA.
4. **Samer Al-khateeb**. A tutorial on "Gephi and Cytoscape: Network Data Visualization" presented for the IFSC 4399/5399 Social Media Mining and Analytics Class at the University of Arkansas at Little Rock. October 1, 2015. Little Rock, AR, USA.

**Awards:**

**Awards and Honors**

1. **Excellence in Research Award** May 2, 2017

*Department of Information Science, in the 2nd Annual EIT (Engineering and Information Technology) Open House. University of Arkansas at Little Rock.*

1. **2nd Place "Most Innovative" Award ($100)** May 2, 2017

*Kinco Constructors, in the 2nd Annual EIT (Engineering and Information Technology) Open House. University of Arkansas at Little Rock.*

1. **2nd Place "Societal Impact" Award ($50)** May 2, 2017

*College of Engineering and Information Technology, in the 2nd Annual EIT (Engineering and Information Technology) Open House. University of Arkansas at Little Rock.*

1. **Outstanding Graduating Student Award (Master's Level)** May 5, 2015

*College of Arts, Letters, and Sciences (CALS) at University of Arkansas at Little Rock.*

1. **Who’s Who Among Students in American Universities and Colleges** Spring 2015

*University of Arkansas at Little Rock*

1. **Chancellor’s List and Dean’s List** Fall 2010, Spring 2011, Spring 2012

*University of Arkansas at Little Rock*

1. **Teaching Enhancements Affecting Minority Students Scholarship** Fall 2011, Spring 2012

*University of Arkansas at Little Rock*

**Travel Awards:**

1. **SBP-BRiMS2017 Student Travel Award**

*Social Computing, Behavioral Modeling, and Prediction Conference* July 5, 2017

1. **ICDM 2015- Student Travel Award**

*The IEEE International Conference on Data Mining* November 14, 2015

1. **EIT Student Travel Award**

*College of Engineering and Information Technology, UALR* November 14, 2015

1. **SBP-BRiMS2015 Student Travel Award**

*Social Computing, Behavioral Modeling, and Prediction Conference* April 3, 2015

1. **Graduate School Student Travel Award**

*Graduate School –University of Arkansas at Little Rock* Spring 2015

**Training Certificates:**

1. **Certificate of Training Center for Computational Analysis of Social and Organizational Systems (CASOS) 2015 Summer Institute**. July 5 - 12, 2015

*Carnegie Mellon University (CMU)*

1. **Certificate of Training Green Dot Student Bystander**  November 9, 2013

*University of Arkansas at Little Rock*

**Other Honors:**

1. **Certificate of Appreciation for Outstanding Performance and Voluntary Contribution as a Judge for the Central Arkansas Regional Science and Engineering Fair (CARSEF) and The Intel International Science and Engineering Fair (Intel ISEF)** February 28, 2014

*University of Arkansas at Little Rock*

1. **Certificate of Perfect Attendance** Fall 2009, Spring 2010

*IELP, University of Arkansas at Little Rock*

European Alliance for Innovation (EAI) 2014-Present

**Organizations**

Institute of Electrical and Electronics Engineers (IEEE) 2013-Present

The Honor Society of Phi Kappa Phi 2012-Present

Golden Key International Honor Society (GK) 2012-Present

Teaching Enhancements Affecting Minority Students 2011-Present

Iraqi Students Association (ISA) 2009-Present

**Selected Media Coverage And Interaction**

1. Article entitled “Military Supports Research at UALR” [Arkansas Democrat Gazette].
2. Article entitled “Agarwal Addresses NATO Meeting on Dangers of Information Disseminated by Botnets” [UA Little Rock Press Release] [NewsWise].
3. Article entitled “UALR Researchers Present Findings at NATO Conference” [UA Little Rock Press Release] [Arkansas Business] [NewsWise].
4. Article entitled “UALR Professor Monitors ANTI-NATO Narratives For Operation Brilliant Jump” [UA Little Rock Press Release] [Public Now].
5. Article entitled “Graph Visualizes Thousands of Tweets about Apple and #NoBackDoor” [UNH Press Release] [UNHcFREG Blog] [Fox61 Coverage].
6. Article entitled “Agarwal and Students Present Research at Stanford-Hosted Symposia” [UA Little Rock Press Release].
7. Article entitled “Study Demonstrates the Power of Social Media for Terror Propaganda” [UA Little Rock Press Release] [Phys.Org]**.**

**References**

1. Name: **Dr. Nitin Agarwal**.

Title: Jerry L. Maulden-Entergy Endowed Chair and Distinguished Professor.

E-mail: [nxagarwal@ualr.edu](mailto:nxagarwal@ualr.edu)

Office Phone: (501) 683-7155

Web: <http://ualr.edu/nxagarwal/>

1. Name: **Dr. Haydar Al-Shukri**.

Title: Professor and Chair.

E-mail: [hjalshukri@ualr.edu](mailto:hjalshukri@ualr.edu)

Office Phone: (501) 569-8010

Web: <http://quake.ualr.edu/hja/hja.htm>

1. Name: **Dr. Steven Minsker**.

Title: Professor.

E-mail: [sxminsker@ualr.edu](mailto:sxminsker@ualr.edu)

Office Phone: (501) 569-8131

Web: <http://ualr.edu/computerscience/about/faculty-and-staff/steven-minsker/>