

DANIEL ADOMAKO ASAMOAH

Curriculum Vitae

Raj Soin College of Business,
Information Systems and Supply Chain Management
Wright State University
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EDUCATION

PhD	Oklahoma State University, Department of Management Science and Information Systems	December 2014
	DISSERTATION TITLE: “THE ROLE OF PEER-TO-PEER SUPPORT FOR CHRONIC DISEASE SELF-MANAGEMENT ON ELECTRONIC SOCIAL NETWORKS”	
	ADVISOR: Dr. Ramesh Sharda	
Masters in Telecommunications	Oklahoma State University	December 2008
	Specialization: Information security, networking	
B.Sc. Electrical Engineering	Kwame Nkrumah University of Science and Technology, Ghana	May 2004
	Specialization: Telecommunications	

PUBLICATIONS

Refereed Journal Articles

- Schiller, S., Goul, M., Iyer, L., Sharda, R., Schrader, D. & Asamoah, D. (2015). Build Your Dream (not just Big) Analytics Program. *Communications of the Association for Information System*, 37, 651-669
- Sharda, R., Asamoah, D. A. & Ponna, N. (2013). Research and Pedagogy in Business Analytics: Opportunities and Illustrative Examples. *Journal of Computing and Information Technology*, 21(3), 171-183
- Gupta, A., Sharda, R., Dong, Y., Sharda, R., Asamoah, D., & Pickering, B. (2013). Improving rounding in critical care environments through management of interruptions. *Decision Support Systems*, 55(2), 516-527
- Kasiri, N., Sharda, R., & Asamoah, D. A. (2012). Evaluating electronic health records systems: a system dynamics simulation. *Simulation*, 88(6), 639-648

Conference Proceedings

- Asamoah, D. & Sharda, R. (2015). Adapting CRISP-DM Process for Social Network Analytics: Application to Healthcare. *2015 Americas Conference on Information Systems, Puerto Rico*
- Thandapani, A., Asamoah, D. & Sharda, R. (2015). Can Social Media Support Public Health? Demonstrating Disease Surveillance using Big Data Analytics. *2015 Americas Conference on Information Systems, Puerto Rico*

- Asamoah, D. & Sharda, R. (2014). The Role of Peer-to-Peer Support on Electronic Social Networks for Chronic Disease Self-Management. *45th Annual Conference of the Decision Sciences Institute*. Tampa, Florida.
- Sharda, R., Asamoah, D. A. & Ponna, N. (2013). Business Analytics: Research and Teaching Perspectives. *Proceedings of the ITI 2013 35th International Conference on Information Technology Interfaces*. Dubrovnik, Croatia.
- Asamoah, D. A., Sharda, R. & Bukkapatnam, S. (2012). The Value of RFID Tracking Systems for Inventory Management in Healthcare. *Proceedings of the 43rd Annual Conference of the Decision Sciences Institute*. San Francisco, California.
- Kuruvada, P., Asamoah, D., Dalal, N., & Kak, S. (2010). Learning Computational Thinking from Rapid Digital Game Creation. *Proceedings of the 2nd Annual Conference on Theoretical and Applied Computer Science*. Stillwater, Oklahoma.
- Dalal, N., & Asamoah, D. (2010). Examining Learning Styles in an Interactive Asynchronous Online Course. *EDULEARN 2010*. Barcelona, Spain.

Conference Presentations

- Asamoah, D., Sharda, R., Zadeh, A. & Kalgotra, P. (2016). Preparing a Big Data Analytics Professional: A Pedagogic Experience. *DSI 2016*, Austin, Texas
- Asamoah, D. & Sharda, R. (2016). Healthcare on Social Media: A Longitudinal Study of Health-Related Support on Twitter. *AMCIS 2016*, San Diego, California
- Asamoah, D., Doran, D. & Schiller, S. (2015). Teaching the Foundations of Data Science: An Interdisciplinary Approach. *2015 Pre-ICIS (International Conference on Information Systems) Business Analytics (BA) Congress*, Fort Worth, Texas
- Sharda, R., Asamoah, D., Zadeh, A. & Kalgotra, P. (2015). Teaching a Big Data Analytics Class in MIS Programs. *2015 Pre-ICIS (International Conference on Information Systems) Business Analytics (BA) Congress Workshop*, Fort Worth, Texas
- Asamoah, D. & Sharda, R. (2015). Do Central User Matter? Exploring the Role of Social Media in Health Information Dissemination. *INFORMS Healthcare 2015*, Nashville, Tennessee
- Asamoah, D. & Sharda, R. (2013). Predicting Injury Recovery Time in Collegiate Football: A Data Mining Approach. *Presented at the Eleventh Annual Big XII+ MIS Research Symposium*. Stillwater, Oklahoma.
- Asamoah, D. A., Sharda, R. & Bukkapatnam, S. (2012). The Value of RFID Tracking Systems for Inventory Management in Healthcare. *Presented at the 1st International Conference on Innovation and Entrepreneurship in Health.*, Oklahoma City, Oklahoma.
- Asamoah, D. (2012). Data mining: A Tool for Enhancing Objective Ranking Mechanism. *Presented at the 23rd Annual OSU Research Symposium and Research Scholar Conference*. Stillwater, Oklahoma.
- Asamoah, D. (2012). Ranking of Hospitals in the US: The Role of Clustering Algorithms. *Presented at the Tenth Annual Big XII+ MIS Research Symposium*. Dallas, Texas.

Manuscripts/Projects in Progress

Asamoah, D. A. & Sharda, R. A Patient-Centered Perspective of Major Depressive Disorder (MDD) Self-Management via Social Networks (Research in Progress)

Asamoah, D. A. & Sharda, R. The Information Gap between Patients and Clinicians – How Wide Is It? (Research in Progress)

Asamoah, D. A. & Sharda, R. Exploring the Benefits of RFID for Medical Laboratory Scheduling: A Simulation Approach – Target Journal: Decision Support Systems

Nichols, J., Sharda, R. & Asamoah, D. A. Web 1.5: Dynamic Update Using AJAX Technology (Project in progress)

GRANTS

- Asamoah, D. A. (Principal), Schiller, S. (Co-Principal) & Doran, D (Co-Principal), "Research Initiation Grant", Wright State University, Research Council, Wright State University, \$14,426.34, In Process. (June 15, 2015 – June 2016).
- Asamoah, D. A. (Principal), "Simio Academic Software: Institution Grant", Wright State University, Simio LLC, \$13,900.00, Received. (June 20, 2015 - June 30, 2017).

RESEARCH/ACADEMIC PROJECT EXPERIENCE

Doctoral Research

MSIS Department, June 2012 - 2014

Dissertation Summary – *Supervised by Dr. Ramesh Sharda*

In this dissertation, I studied the role of social relationships on electronic social networks (E-SN) for chronic disease self-management. E-SN platforms such as twitter, create an environment where a large number of individuals interact and disseminate information. I investigated effective ways of providing health information to these large population of individuals through E-SN platforms and in a way that leverages high volume of interactions among them. I also studied the pattern of social influence on electronic social networks and how it related to information objectivity and quality. Big Data analytics methods were used to access the collective wisdom embedded in the interactions among this large number of individuals.

Research Team Lead

IRIS Lab, Oklahoma State University, August 2013 – 2014

Big Data Analytics Research - *Supervised by Dr. Ramesh Sharda*

Served as lead researcher of a team of graduate students conducting various research initiatives in the use of Big Data Analytics as a driving force for business decision making. Multiple projects were undertaken in several domain areas including healthcare, energy and marketing.

Project Assistant

IRIS Lab, Oklahoma State University, June 2013 – May, 2014

SNAP DSS to Analyze Network Service Pricing for OMES – *Supervised by Dr. Ramesh Sharda*

This was an extension of the OneNet SNAP DSS project. The project involved the creation of a decision support tool to help price telecommunication services by the State of Oklahoma. A key component to this project was the valuation and allocation of cost associated with the deployment of the backbone fiber optic network. The tool would be used by the State's telecommunications services agency to analyze multiple pricing models for telecommunication services.

Research Assistant

IRIS Lab, Oklahoma State University, June 2012 – May, 2014

Athletes Injury Prediction Project – *Supervised by Dr. Ramesh Sharda*

This research project is in collaboration with Cerner Corporation and involves the creation of a predictive model to predict the recovery time of game-related athlete injuries. Current phase is focused on college football injuries with the aim of extending it to other amateur and professional sports.

Project Assistant

IRIS Lab, Oklahoma State University, May 2012 – July 2012

SNAP DSS to Analyze Network Service Pricing for OneNet – *Supervised by Dr. Ramesh Sharda*

A decision support tool was created for OneNet, a State of Oklahoma agency responsible for telecommunications services for education and government. The tool is used by OneNet in analyzing multiple pricing structures and economically viable pricing decisions for telecommunication services.

Research Assistant

IRIS Lab, Oklahoma State University, May 2010

Dynamic Update Using AJAX Technology – *Supervised by Drs. Jason Nichols and Ramesh Sharda*

Ajax is made up of a number of individual established technologies. However, the integration of these separate technologies into a platform is not matured yet. Research focused on developing a DSS system using AJAX technologies on a WEB 2.0 platform where the individual technologies are in smooth tandem with each other.

Research Intern

University of Applied Science, Dresden, Germany, October 2004-December 2004

Simulation and Electrical Circuits Research – *Supervised by Prof. Dr.-Ing. Habil Brenner*

The main task was to develop a mathematical model that connected three diodes in parallel. The model was programmed using LabVIEW simulation software and the features and characteristics of the circuit with the parallel connected diodes measured.

ACADEMIC EXPERIENCE

Assistant Professor, Wright State University, Ohio, July 2014 – Present

Research and teaching in Information Systems Courses - Data/Business Analytics, Databases, Systems Analysis and Design

Graduate Teaching Associate, Oklahoma State University, Oklahoma, January 2014 – May 2014

Instructor – Operations Management (MSIS 3223)

Graduate Teaching Associate, Oklahoma State University, Oklahoma, August 2013 – December 2013

Instructor – Big Data Analytics (MSIS 5600)

Graduate Teaching Associate, Oklahoma State University, Oklahoma, August 2013 – December 2013

Instructor – Decision Support Systems Business Intelligence Application (MSIS 4263)

Graduate Teaching Associate, Oklahoma State University, Oklahoma, August 2009 – May 2013

Instructor – Advanced Application Soft Tools (MSIS 5020), Computer Programming for Business Students (MSIS 2203)

Graduate Teaching Assistant, Oklahoma State University, Oklahoma, January 2010–May 2010
TA – Enterprise Resource Planning (MSIS 5123), Advanced Systems Analysis and Design (MSIS 5653)

IT Support, Broward County Library, Ft. Lauderdale, Florida, March 2009 - May 2009
Instructor- Microsoft Office Applications

Graduate Teaching Assistant, Oklahoma State University, Oklahoma, January 2007–December 2008
TA - Computer Concepts and Applications (MSIS 2103), Industry View and Telecom Applications (TCOM 5113), IT Risk Analysis, Planning and Mitigation (TCOM 5253)

Graduate Teaching Assistant, New Mexico Tech, New Mexico, August 2006 - December 2006
Lab Assistant/Grader - Analog Electronics (EE 321L), Circuits and Signals (EE211)

Teaching Assistant, Kwame Nkrumah University of Sci. & Tech, Ghana, September 2004–July 2005
Instructor - Introductory courses in computing

Mathematics Instructor, Young Christian Preparatory School, Ghana, May 1999–August 2000

RESEARCH INTERESTS

- Electronic Social Networks
- Health Informatics
- Big Data Analytics
- Healthcare Decision Support Systems
- Systems Simulation
- Design Science Research

TEACHING INTERESTS

- Business Intelligence/Data Mining
- Systems Analysis and Design
- Object-Oriented Computer Programming (PHP)
- Decision Support Systems
- Computer Networks and Security
- Operations Management

ACADEMIC SERVICE AND EXPERIENCE

Reviewer

- Americas Conference on Information Systems (AMCIS), 2011 - 2015
- Decision Support Systems (DSS), 2011–2013
- International Conference on Information Systems (ICIS), 2013
- Information Systems Frontiers (ISF), 2012

Session Chair

- Americas Conference on Information Systems (AMCIS), Information Security Management Systems I, 2014

Discussant

- 43rd Annual Conference of the Decision Sciences Institute. San Francisco, California, 2012

Judge

- OSU Research Symposium and Research Scholar Conference, Stillwater, Oklahoma, 2012
- OSU MBA Case Competition, Oklahoma, 2012

LEADERSHIP

Graduate and Professional Student Government Association (GPSGA)

- **Vice President**, 2011-2012
- **Chairman**, Phoenix Award Committee, 2011-2012
- **Chairman**, Policies and Procedure Committee, 2011-2012
- **Web Developer/Administrator**, 2011-2012
- **Member**, Phoenix Award Committee, 2009-2010
- **Representative** for MSIS Department, 2009-2010

Institute for Operations Research and Management Science (INFORMS)

- **Vice President**, Oklahoma State University Student Chapter (**won Magna Cum Laude award**), 2011

Other University-wide Service

- **Camp Instructor/Counselor**, Information Systems Technology Exploration Academy (ISYTE), 2010, 2011, 2012, 2013
- **GPSGA Liaison**, Faculty Council, 2011-2012
- **Member**, Oklahoma State University Distinguished Teaching Award Committee, 2011
- **Program Facilitator**, English Language Proficiency Program for International Students, Stillwater, 2008

International Association for the Exchange of Students for Technical Experience

- **Administrative Secretary**, Ghana Chapter, 2005
- **President**, Ghana Chapter, 2004

AWARDS AND HONORS

- Runner-Up For Best Teaching Paper (Business Analytics Congress), 2015
 - International Conference on Information Systems-SIGDSA, Professional Organization, Research.
- OSU Foundation Distinguished Graduate Fellowship Award, 2014
 - Awarded based on outstanding contributions and accomplishments in research, teaching and service as a graduate student.
- Phoenix Doctoral Award, 2014
 - Awarded to outstanding doctoral student, based on achievement in scholarship, leadership, professional involvement and university and community service.
- Decision Sciences Institute New Faculty Development Consortium, 2014

- Awarded to faculty who are in the initial stages of their academic careers.
- Phillips Dissertation Fellowship Award (Oklahoma State University), 2013
 - Awarded to Spears School of Business doctoral students who have made outstanding contribution to both knowledge and practice through their dissertation research
- Outstanding Graduate Teaching Associate Award (Spears School of Business), 2013
 - Awarded to Spears School of Business PhD students who have exhibit exemplary skills in teaching.
- Americas Conference on Information Systems (AMCIS) Doctorial Consortium, 2013
 - Awarded to doctoral students who are in the job market and have made outstanding progress in their dissertation in terms of potential impact to both theory and practice.
- Decision Sciences Institute Doctorial Consortium, 2013
 - Awarded to doctoral students who are in the job market and have made outstanding progress in their dissertation in terms of potential impact to theory and practice.
- The National Scholars Honor Society (Magna Cum Laude), 2008
 - Merit-based recognition given to outstanding graduating students from all disciplines.
- German Government DAAD Scholarship, 2004
 - Awarded to outstanding college students to pursue internships in their field if study.
- Spacefon Scholarship Award (Merit-based award), 2000, 2001, 2002, 2003, 2004
 - Merit-based award given to outstanding undergraduate students from all disciplines.

PROFESSIONAL AFFILIATIONS

- Association for Information Systems (AIS)
- Decision Sciences Institute (DSI)
- Institute for Operations Research and Management Science (INFORMS)
- Institute of Electrical and Electronic Engineering (IEEE)
- National Society for Black Engineers (NSBE)

UNIVERSITY AFFILIATIONS

- Data Analytics and Virtualization Environment Laboratory (DAVE), WSU, 2014-Present
- Institute for Research in Information Systems (IRIS), OSU, 2009-2014
- Center for Health Systems Innovation (CHSI), OSU, 2012-2013
- Graduate and Professional Students Government Association, (GPSGA), OSU, 2009-2014

RELEVANT INDUSTRY EXPERIENCE

R&D Specialist, Avansic Digital Forensics Professionals Inc., Oklahoma, May 2008-August 2008

- Designed an electronic circuit for retrieving data from Electronic Data Recorders (EDR)
- Performed analysis on retrieved EDR data to verify its operational and forensic functionalities

Wireless CDMA Engineer, Huawei Technologies Company Limited, Ghana, August 2005-July 2006

- Designed and set up GSM/GPRS networks for Telecom service providers and prepared it for commercial launch
- Performed hardware installation, software debugging and provided network support and training for clients

Engineering Intern, Scancom Limited, Ghana, February 2002-March 2002

- Participated in building cell sites as well as installation and general administration of telecom equipment for Scancom Limited's Telecom Network
- Monitored and maintained cell sites and radio equipment and carried out BSS operations

CERTIFICATIONS

IBM Big Data Streams and Smart Cloud Certificate, October 11, 2013

Big Data University

Graduate Certificate in Business Data Mining, May 2011

Oklahoma State University, Stillwater, Oklahoma

SAS and OSU Data Mining Certificate, May 2011

Oklahoma State University, Stillwater, Oklahoma

SAS Predictive Modeling Certificate, May 2011

SAS Institute Incorporated

Graduate Certificate in Information Assurance, December 2008

Oklahoma State University, Stillwater, Oklahoma

Cisco Certified Network Associate (CCNA - 640-802), June 2008

Cisco Systems Incorporated

Cisco Certified Security Professional (CCSP – 642-552 SND), June 2008

Cisco Systems Incorporated