

# Niam Yaraghi

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## Academic Positions

University of Connecticut

Assistant Professor of Operations & Information Management, School of Business, 2017–present

The Brookings Institution

Nonresident Fellow, Center for Technology Innovation, 2017–present

Fellow, Center for Technology Innovation, 2014 – 17

## Education

Ph.D., Management Science & Systems, State University of New York at Buffalo, 2010 – 14

*Dissertation Title: Essays on Health Information Exchange: Adoption, Usage and Patient Privacy*

M.Sc., Project Management & Operational Development, Royal Institute of Technology, 2008 – 09

B.Sc., Industrial Engineering, Isfahan University of Technology, 2002 – 07

## Awards

2017, Best Paper Award; Workshop on Information Technology and Systems

2016, Privacy Scholars Fellowship, Antonin Scalia Law School, George Mason University

2015, Young Researcher Award; Workshop on Health Information Technology & Economics

2015, Fifty Leaders in Health IT; Becker's Health IT and CIO Review

2013, Dean's Award; SUNY at Buffalo School of Management

2013, SAS Global Forum Student Scholarship Award; SAS Institute

2012, Best Poster Award; SUNY at Buffalo School of Management

2011, Nominated for Best Paper Award; Workshop on Information Technology and Systems

2009, Best Student Paper Award; Society for Risk Analysis

## Research Grants *(total: \$403,117)*

2016, California Health Care Foundation; \$95,000

*Examining the Effects of HIPAA Omnibus Rules on Reducing Privacy Breaches among Business Associates*

2016, David M. Rubenstein Grant; \$95,000

*(How) Should We Regulate Uber? Analysis of the Regulatory Aspects of Ride Sharing Services in India*

2016, National Institute for Health Care Management Foundation; \$60,712

*An Empirical Investigation on Potential Manipulation in Nursing Homes' Rating System*

2015, California Health Care Foundation; \$128,072

*Documenting the Lessons Learned from Recent Privacy Breaches in Health Care Sector*

2014, Department of Health and Human Services (subcontract form MITRE Corporation); \$24,000

*Development of ONC Health IT Policy & Business Framework*

## Publications

### *Journal Articles*

1. Yaraghi, N., Gopal, R. "The Role of HIPAA Omnibus Rules in Reducing the Frequency of Medical Data Breaches: Insights from an Empirical Study", to appear at *Milbank Quarterly*.
2. Yaraghi, N., Gao, G., Agarwal, R. "How Online Quality Ratings Influence Patients' Choice of Medical Providers: A Controlled Experimental Survey Study", to appear at *Journal of Medical Internet Research*.
3. Han, X., Yaraghi, N., Gopal, R. "Winning at All Costs: Analysis of Inflation in Nursing Homes' Rating System", to appear at *Production & Operations Management*.
4. Eftekhari, S., Yaraghi, N., Singh, R., Gopal, R., Ramesh, R. "Do Health Information Exchanges Deter Repetition of Medical Services?", *ACM Transactions on Management Information Systems* 8(1): 2, 2017.
5. Yaraghi, N. "An Empirical Analysis of the Financial Benefits of Health Information Exchange in Emergency Departments", *Journal of the American Medical Informatics Association* 22(6): 1169–1172, 2015.
6. Yaraghi, N., Sharman, R., Gopal, R., Ramesh, R., Singh, R. "Drivers of Information Disclosure on Health Information Exchange Platforms: Insights from an Exploratory Empirical Study", *Journal of the American Medical Informatics Association* 22(6): 1183-1186, 2015.
7. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Health Information Exchange as a Multi-Sided Platform: Adoption, Usage and Practice Involvement in Service Co-Production", *Information Systems Research* 26(1): 1–18, 2015. (**Lead article**)
8. Yaraghi, N., Tabesh, P., Guan, P., Zhuang, J. "Comparison of AHP and Monte Carlo AHP Under Different Levels of Uncertainty", *IEEE Transactions on Engineering Management* 62(1): 122–132, 2015.
9. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R., Singh, R., Singh, G. "Professional and Geographical Network Effects on Healthcare Information Exchange Growth: Does Proximity Really Matter?", *Journal of the American Medical Informatics Association* 21(4): 671–678, 2014.

10. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Network Effects in Health Information Exchange Growth", *ACM Transactions on Management Information Systems* 4(1): 1, 2013. **(Lead article)**
11. Yaraghi, N., Langhe, R. "Critical Success Factors for Risk Management Systems", *Journal of Risk Research* 14(5): 551-581, 2011.

### *Papers Under Review*

1. Yaraghi, N., West, D., Gopal, R., Ramesh, R. "An Empirical Examination of Effects of Exposure to Negative Information on Consumers' Adoption Decisions", Invited for 2<sup>nd</sup> review at *Journal of Management Information Systems*.
2. Yaraghi, N., Gopal, R., Ramesh, R. "Doctor's Orders or Patient's Preferences? Examining the Role of Physicians in Patients' Privacy Decisions on Health Information Exchange Platform", Invited for 2<sup>nd</sup> review at *Journal of the Association for Information Systems*.

### *Working Papers*

1. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Participation in Health Information Exchanges and Physicians' Referral Patterns: Are they Mutually Reinforcing?".
2. Han, X., Yaraghi, N., Gopal, R. "Catching Them Red-handed: Optimizing the Nursing Homes' Rating System".

### *Policy Reports*

1. Yaraghi, N., Ravi, S. "(How) Should We Regulate Uber? Analysis of the Regulatory Aspects of Ride Sharing Services in India", *The Brookings Institution*, December 2016.
2. Yaraghi, N., Han, X., Gopal, R. "Five-star Ratings for Sub-par Service: Evidence of Inflation in Nursing Home Ratings", *The Brookings Institution*, December 2016.
3. Yaraghi, N. "Hackers, Phishers, and Disappearing Thumb Drives: Lessons Learned from Major Health Care Data Breaches", *The Brookings Institution*, May 2016.
4. Yaraghi, N. "Benefits of Health Information Exchange Platforms: Measuring the Returns on a Half a Billion Dollar Investment", *The Brookings Institution*, May 2015.
5. Yaraghi, N. "A Sustainable Business Model for Health Information Exchange Platforms: The Solution to Interoperability in Health Care IT", *The Brookings Institution*, January 2015.
6. West, D., Yaraghi, N. "The Emerging Revolution in Healthcare", *The Brookings Institution*, August 2014.

### *Op-Eds*

1. Yaraghi, N. "To Foster Information Exchange, Revise HIPAA and HITECH", *Health Affairs Blog*, September 17, 2017.
2. Yaraghi, N. "MACRA Creates More Problems Than It Solves", *Health Affairs Blog*, October 12, 2016.

3. Yaraghi, N. "Mitigate Medical Hacks", *U.S. News & World Report*, August 9, 2016.
4. Yaraghi, N. "Ransomware Hacks Are a Hospital Health IT Wake-Up Call", *U.S. News & World Report*, April 1, 2016.
5. Yaraghi, N. "HHS Is Pointing Fingers Instead of Preventing Health Data Hacks", *U.S. News & World Report*, March 3, 2016.
6. Yaraghi, N. "To Protect Patients' Privacy, Give Them Control of Their Health Data", *U.S. News & World Report*, February 12, 2016.
7. Yaraghi, N. "Why Doctors Still Don't Use Text or Email With Patients", *U.S. News & World Report*, November 5, 2015.
8. Yaraghi, N. "Jeb Bush's Health Care Plan Fills Obamacare's Health IT Gaps", *U.S. News & World Report*, October 15, 2015.
9. Yaraghi, N. "How Yelp Could Get Patients Their Electronic Health Records", *U.S. News & World Report*, September 28, 2015.
10. Yaraghi, N. "How to Get Physicians to Adopt Electronic Health Records", *U.S. News & World Report*, September 24, 2015.
11. Yaraghi, N. "Federal Agencies Take a Political Risk Joining Yelp", *U.S. News & World Report*, August 25, 2015.
12. Yaraghi, N. "Four Things to Remember About DOD's Health IT Overhaul", *U.S. News & World Report*, August 3, 2015.
13. Yaraghi, N. "How Meaningful Use Fails Doctors and Hospitals on Health IT", *U.S. News & World Report*, July 15, 2015.
14. Yaraghi, N. "Health IT That Works for Everyone", *U.S. News & World Report*, June 30, 2015.
15. Yaraghi, N. "Don't Yelp Your Doctor", *U.S. News & World Report*, June 12, 2015.
16. Yaraghi, N. "Why Doctors Still Perform Unnecessary Medical Tests", *U.S. News & World Report*, May 27, 2015.
17. Yaraghi, N. "Pharma Wants to Hide Continuing Medical Education Payments to Doctors", *U.S. News & World Report*, May 11, 2015.

## Presentations

### *Academic Conferences*

1. Han, X., Yaraghi, N., Gopal, R. "Optimizing the Nursing Homes' Rating System", *Workshop on Information Technologies & Systems (WITS)*, Seoul, Korea, December 2017.
2. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Designing Incentive-Pricing Mechanisms to Promote Health Information Exchange", *Workshop on Information Technologies & Systems (WITS)*, Seoul, Korea, December 2017. **(Received the best paper award)**
3. Han, X., Yaraghi, N., Gopal, R. "Audit or Subsidize? The Impact of IoT Adoption on Nursing Home Rating System", *Workshop on Information Systems and Economics (WISE)*, Seoul, Korea, December 2017.

4. Yaraghi, N., Wang, W., Gao, G., Agarwal, R. "Non-Clinical Ratings Provided by Commercial Websites and Clinical Ratings Provided by the Government are Equally Important for Online Users: A Controlled Experimental Survey Study", *Conference on Health IT and Analytics (CHITA)*, Washington, D.C, November 2017.
5. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Participation in Health Information Exchanges and Physicians' Referral Patterns: Are they Mutually Reinforcing?", *Conference on Health IT and Analytics (CHITA)*, Washington, D.C, November 2017.
6. Han, X., Yaraghi, N., Gopal, R. "Audit or Subsidize? The Impact of IoT Adoption on Nursing Homes' Rating System", *Conference on Health IT and Analytics (CHITA)*, Washington, D.C, November 2017.
7. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Co-evolution of Health Information Exchange Adoption and Physicians' Referral Networks: A Stochastic Actor-Oriented Paradigm", *Conference on Information Systems & Technology (CIST)*, Houston, TX, October 2017.
8. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Participation in Health Information Exchanges and Physicians' Referral Patterns: Are they Mutually Reinforcing?", *Symposium on Data Science for Healthcare (DaSH)*, Ridgefield, CT, October 2017.
9. Eftekhari, S., Yaraghi, N., Gopal, R., Ramesh, R. "Does Health Information Exchange impact Physicians' Referral Patterns?", *Secure Knowledge Management Workshop*, Tampa, FL, October 2017.
10. Han, X., Yaraghi, N., Gopal, R. "Catching Them Red-handed: Optimizing the Nursing Homes' Rating System", *Workshop on Information Technologies & Systems (WITS)*, Dublin, Ireland, December 2016.
11. Yaraghi, N., Gopal, R., Ramesh, R. "Drivers and Processes of Patients' Privacy Decisions on Health Information Exchange Platforms", *Workshop on Information Technologies & Systems (WITS)*, Dublin, Ireland, December 2016.
12. Han, X., Yaraghi, N., Gopal, R. "Catching Them Red-handed: Optimizing the Nursing Homes' Rating System", *Conference on Information Systems & Technology (CIST)*, Nashville, TN, November 2016.
13. Eftekhari, S., Yaraghi, N., Singh, R., Gopal, R., Ramesh, R. "Do Health Information Exchanges Deter Repetition of Medical Services?", *Workshop on Health Information Technology & Economics (WHITE)*, Washington, DC, October 2016.
14. Han, X., Yaraghi, N., Gopal, R. "Catching Them Red-handed: Optimizing the Nursing Homes' Rating System", *Workshop on Health Information Technology & Economics (WHITE)*, Washington, DC, October 2016.
15. Han, X., Yaraghi, N., Gopal, R. "A Graph-Based Model for Improving the Audit Process of a Nursing Home Rating System", *Production & Operations Management Society Annual Conference (POMS)*, Orlando, FL, May 2016.
16. Han, X., Yaraghi, N., Gopal, R. "An Empirical Investigation on the Prevalence of Manipulation in Nursing Homes' Rating System", *Conference on Information Systems & Technology (CIST)*, Philadelphia, PA, November 2015.
17. Han, X., Yaraghi, N., Gopal, R. "An Empirical Investigation on the Prevalence of Manipulation in Nursing Homes' Rating System", *Patient-Centric Healthcare Management in the Age of Analytics (Kelly School of Business)*, Bloomington, IN, October 2015.
18. Yaraghi, N. "An Empirical Analysis of the Financial Benefits of Health Information Exchange in Emergency Departments", *Workshop on Health Information Technology & Economics (WHITE)*, Washington, DC, October 2015. **(Received the young researcher award)**

19. Yaraghi, N. "An Empirical Analysis of the Financial Benefits of Health Information Exchange in Emergency Departments", *INFORMS Healthcare*, Nashville, TN, July 2015.
20. Yaraghi, N., Sharman, R., Gopal, R., Ramesh, R. "Disclosure of Medical History on Health Information Exchange Platforms: Rational Drivers, Psychological Cues and Environmental Effects", *Conference on Information Systems & Technology (CIST)*, San Francisco, CA, November 2014.
21. Yaraghi, N., West, D., Gopal, R., Ramesh, R. "Drivers and Deterrents of Affordable Care Act Enrollment: A State Level Analysis", *Workshop on Health Information Technology & Economics (WHITE)* Washington, DC, October 2014.
22. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Health Information Exchange as a Multi-sided Platform: Adoption, Usage and Practice Involvement in Service Co-production", *Workshop on Health Information Technology & Economics (WHITE)*, Washington, DC, November 2013.
23. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Consenting Adults: Why Do Patients Disclose Their Medical History on Health Information Exchange Platforms?", *Conference on Information Systems & Technology (CIST)*, Minneapolis, MN, October 2013.
24. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Modeling Practice Efficiencies in Healthcare Information Exchanges and Implications for HIE Network Growth", *Workshop on Information Technologies & Systems (WITS)*, Orlando, FL, December 2012.
25. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R., Singh, R. "Professional and Geographical Network Effects on HIE growth", *Workshop on Health Information Technology & Economics (WHITE)*, Washington, DC, October 2012.
26. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R. "Interlinked Network Effects in Healthcare Information Exchange Growth", *Workshop on Information Technologies & Systems (WITS)*, Shanghai, China, December 2011. **(Nominated for the best paper award)**
27. Venkatesan, S., Yaraghi, N., Oh, O., Rao, R. "Investigating the Role of Twitter Services in the Egyptian Social Movement", *Workshop on Information in Networks (WIN)*, New York, NY, September 2012.
28. Yaraghi, N., Du, A., Sharman, R., Gopal, R., Ramesh, R., Singh, R., Singh, G. "Clustering Physicians Based on Professional Proximity Using SAS," *SAS Global Forum*, Orlando, FL, April 2012.
29. Yaraghi, N., Kishore, R., Chen, R. "Mining and Merging DATAMONITOR and WRDS Databases with SAS", *SAS Global Forum*, Orlando, FL, April 2012.
30. Yaraghi, N., Sharman, R., Singh, R., Singh, G. "Application of Monte Carlo Analytical Hierarchy Process in Prioritizing Electronic Medical Record Success Factors", *Symposium on Healthcare Advancements in Research and Practice (SHARP)*, Moorhead, MN, April 2011.
31. Hajbagheri, M., Yaraghi, N. "A Model For Integrating Quantitative Risk Analysis of Vendor's Environmental Performance Into Supplier Selection Process", *Society for Risk Analysis Annual Meeting*, Baltimore, MD, December 2009. **(Received the best student paper award)**
32. Yaraghi, N., Hajbagheri, M. "A New Approach to Model Cost and Duration of Projects in Stochastic Environments", *Society for Risk Analysis Annual Meeting*, Baltimore, MD, December 2009.

*Policy Forums*

1. West, D., Hennessey, S., Yaraghi, N., Turner-Lee, N. "Technology Policy and the Trump Administration", The Brookings Institution, December 2016.
2. Yaraghi, N., Edelman, T. "Evaluating and Improving the Nursing Home Ratings System", The Brookings Institution, December 2016.
3. Yaraghi, N., Koltai, S., Sonenshine, S., Hume, C. "Peace Through Entrepreneurship? Improving Middle Eastern security by Creating Jobs", The Brookings Institution, September 2016.
4. Bhatl, H., Farmer, R., Serkes, K., Konnoth, C., Yaraghi, N. "As Health Data Exchanges Grow, What Rights Do Patients Have?", Health Privacy Summit, June 2016.
5. Chopra, A., Dawson, N., Yaraghi, N. "Outside, In: Unhealthy Hacking: Medical Privacy in the Age of Cyber Attacks", Politico, May 2016.
6. Yaraghi, N., Gilliam, M. "Innovations in Health", University of Chicago, November 2015.
7. Kamarck, E., Patashnik, E., Yaraghi, N. "Assessing the Affordable Care Act's Efficacy, Implementation, and Policy Implications Five Years Later", The Brookings Institution, April 2015.
8. West, D., Yaraghi, N. Schwartz, S., Cronin, K., Koslov, T. "Improving Patient Care through Healthcare Connectivity", The Brookings Institution, October 2014.

*Invited Talks*

1. March 2017, Cleveland Health IT Summit.
2. January 2017, Smith School of Business, University of Maryland.
3. November 2016, eHealth Initiative Executive Roundtable.
4. November 2016, Nanyang Business School, Nanyang Technological University.
5. November 2016, College of Business, Idaho State University.
6. October 2016, Sauder School of Business, University of British Columbia.
7. September 2016, RISE West Healthcare Summit.
8. June 2016, Virginia Local Government Management Association.
9. September 2015, Electronic Health Records Association (EHRA) Government Affairs and Leadership Retreat.
10. July 2015, Healthcare Information & Management Systems Society (HIMSS) Government Relations.
11. November 2014, Department of Economics, University of Nevada at Las Vegas.
12. May 2013, Department of Family Medicine, State University of New York at Buffalo.
13. February 2013, College of Information Science and Technology, Pennsylvania State University.
14. December 2011, Graduate School of Management and Economics, Sharif University of Technology.

## Professional Activities

### *Teaching*

Fall 2017, Data Mining & Business Intelligence, University of Connecticut

### *Reviewing*

Information Systems Research, MIS Quarterly, Management Science, Journal of American Medical Informatics Association (JAMIA), Production & Operations Management, Journal of the Association for Information Systems, Information Systems Frontiers

### *Program Committee Membership*

WITS: 2013-2017, CIST: 2014-2017, ICIS: 2016

### *Media Interviews & Press Coverage*

As of December 25, 2017, my research has been mentioned 174 times in various media outlets including [MSNBC](#), [NPR](#), [Time](#), [MIT Technology Review](#), [C-SPAN](#), and [Bloomberg](#).

A detailed list of media mentions is available at [niamyaraghi.com/media-coverage](http://niamyaraghi.com/media-coverage)

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