

## **Jenna L. Marquard**

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*Research group website:* <http://people.umass.edu/marquard/>

### **I. PERSONAL**

#### **A. Education**

- University of Wisconsin - Madison, PhD in Industrial Engineering, December 2007
- University of Wisconsin - Madison, MS in Industrial Engineering, May 2004
- University of Iowa, BS in Industrial Engineering, May 2003

#### **B. Academic and Professional Positions**

- Associate Professor, Industrial Engineering, University of Massachusetts Amherst, 2013 – Present
- Adjunct Associate Professor, Computer Science, University of Massachusetts Amherst, 2013 – Present
- Adjunct Research Professor, BioMedical Health Informatics, University of Minnesota, 2014 – Present
- Visiting Scholar, Department of Medical Informatics and Clinical Epidemiology, Oregon Health and Science University, 2014
- Assistant Professor, Industrial Engineering, University of Massachusetts Amherst, 2008 – 2013
- Research Assistant and Fellow, University of Wisconsin – Madison Health Systems Laboratory, 2003 – 2007 (Advisor: Patricia Flatley Brennan)
- Summer Associate, RAND Corporation Health Group, 2006
- Research Assistant, Cognitive Systems Laboratory, University of Iowa, 2002 – 2003 (Advisor: John D. Lee)
- Intern, Micron Technology, 2002
- Intern, Presidio of San Francisco (National Park), 2001
- Intern, Hammel, Green and Abrahamson (Architecture and Engineering Firm), 2000 – 2001

### **C. Honors and Awards**

- University of Massachusetts Amherst Public Engagement Project Fellowship, 2018
- University of Wisconsin-Madison College of Engineering Early Career Award, 2016
- University of Massachusetts Amherst College of Engineering Barbara H. and Joseph I. Goldstein Outstanding Junior Faculty Award, 2012
- University of Massachusetts Amherst Team-Based Learning Fellowship, 2012-2013
- National Science Foundation (NSF) CAREER Award, 2012
- University of Massachusetts Amherst Distinguished Teaching Award Nominee , 2011-2012
- University of Massachusetts Amherst Lilly Teaching Fellowship, 2011-2012
- Industrial Engineering Professor of the Year (Student Voted), 2010, 2011, 2016, 2017
- Industrial Engineering Advisor of the Year (Student Voted), 2011, 2012
- NSF-Sponsored Workshop on Women in Industrial Engineering Academia Travel Grant Awardee, 2008, 2012
- American Medical Informatics Association Ethical, Legal, and Social Issues Working Group Student Travel Awardee, 2006
- Tromso Telemedicine and eHealth Conference Best Poster Award, 2004
- NSF Graduate Research Fellowship, 2003 – 2006
- University of Iowa Presidential Scholar, 1999 – 2003
- University of Iowa Engineering Excellence Scholar, 1999

### **D. Membership in Academic, Professional, and Scholarly Societies**

- American Medical Informatics Association (AMIA)
- Human Factors and Ergonomics Society (HFES)

## II. TEACHING

### A. Courses Taught

- Undergraduate Fundamentals of Data Visualization (2017)
- Undergraduate Engineering Economic Analysis (2008, 2009, 2010, 2012)
- Undergraduate Simulation Modeling (2008, 2009, 2010, 2012, 2014, 2015, 2017)
- Undergraduate Human Factors (2011, 2016, 2017, 2018)
- Graduate Human Factors (2011, 2012, 2015; online in 2014, 2015, 2017)
- Industrial Engineering Senior Design (2009, 2010, 2013, 2014)
- Industrial Engineering Graduate Seminar (2008, 2009, 2010, 2011)
- Coordinator for Industrial Engineering Undergraduate Seminar (2014)

### B. Contribution to Curriculum Development

#### *MIE 373: Undergraduate Simulation Modeling*

In 2008, I significantly restructured this course from a lecture-based course to a hands-on laboratory-based course to better prepare students to link the course content with the direct application of the content to real-world problems. In changing this course, I created case exercises that the students complete in a computer laboratory as part of each class period.

In 2012, as a part of my Lilly Teaching Fellowship, I further redesigned this course based on the team-based learning paradigm. Students now complete the aforementioned case exercises in preparation for class, and then work in teams during class to develop and refine more complex simulations. A short video produced by the University of Massachusetts Amherst featuring my course can be viewed at: [http://youtu.be/jv3FFZ4l\\_iw](http://youtu.be/jv3FFZ4l_iw).

#### *MIE 397DH: Fundamentals of Data Visualization*

I developed this team-based-learning course targeted at our undergraduate honors students.

#### *MIE 652: Graduate Human Factors*

I developed an online version of this course for our MS in Engineering Management program.

## C. Graduate Students

### *PhD Dissertation Advisor*

- Swaminathan Kandaswamy, Industrial Engineering (2015 – Present)
- Ze He, Industrial Engineering (2011 – 2016)
  - Recipient of the 2009 Hluchyj Fellowship, a 1-year \$25,000 fellowship awarded to two first-year graduate students conducting research at the intersection of engineering and nursing
  - Current Location: Phillips Healthcare
- Junghee Jo, Computer Science (2010 – 2014)
  - Current Location: Electronics and Telecommunications Research Institute

### *MS Thesis Advisor*

- Vanessa Martinez (2016 – Present)
  - Recipient of a \$22,000 Northeast Alliance for Graduate Education and the Professoriate Fellowship for an incoming underrepresented minority graduate student in science, technology, engineering, and mathematics (STEM) disciplines.
- Kristine DeSotto (2017 – Present)
- Jocelyn Morgan (2011 – 2013)
  - Recipient of a \$22,000 Northeast Alliance for Graduate Education and the Professoriate Fellowship for an incoming underrepresented minority graduate student in science, technology, engineering, and mathematics (STEM) disciplines.
  - Current Location: Cigna Health and Life Insurance Company
- An Pham (2011 – 2013) (Co-Advisor with Erin Baker)
  - Current Location: Massachusetts Municipal Wholesale Electric Company (MMWEC)
- Brian Amster, MS Industrial Engineering (2010 – 2012)
- Ze He, MS Industrial Engineering (2009 – 2011)
- Yi You Mei, MS Industrial Engineering (2008 – 2010)
  - Recipient of the Hluchyj Fellowship in 2008
  - Current Location: Phillips Healthcare

*Thesis and Dissertation Committee Member*

	<b>Department</b>	<b>Advisor</b>
• Jeffery Muttart, PhD	Industrial Engineering,	D. Fisher
• Guatam Divekar, PhD	Industrial Engineering,	D. Fisher
• Hasmik Mehranian, PhD	Industrial Engineering,	D. Fisher
• Mal Abdul Hamid, PhD	Industrial Engineering,	D. Fisher
• Sibi Samuel, PhD	Industrial Engineering,	D. Fisher
• Cher Nichols, PhD	Industrial Engineering,	D. Fisher
• Yan Shen, MS	Industrial Engineering,	D. Fisher
• Tara Demeyer, MS	Industrial Engineering,	D. Fisher
• Seckin Celik, MS	Industrial Engineering,	D. Fisher
• Luis Gerardino, MS	Industrial Engineering,	D. Fisher
• Jingyi Zhang, MS	Industrial Engineering,	D. Fisher
• Sarah Bakhtiari, MS	Industrial Engineering,	S. Samuel
• Yalda Ebadi, MS	Industrial Engineering,	S. Samuel
• Moijue Kaikai, PhD	Industrial Engineering,	E. Baker
• Olaitan Olaleye, PhD	Industrial Engineering,	E. Baker
• Ben Ewing, MS	Industrial Engineering,	E. Baker
• Peter Rasmussen, MS	Industrial Engineering,	E. Baker
• Claire Cruickshank, MS	Industrial Engineering,	E. Baker
• Michael Prockle, MS	Industrial Engineering,	A. Muriel
• Princewill Abanulo, MS	Industrial Engineering,	A. Muriel
• Radha Gomez, PhD	Civil/Env Engineering	M. Knodler
• Danai Chasaki, PhD	Elec/Comp Engineering	T. Wolf
• Jing Ding, PhD	Civil/Env Engineering	S. Gao
• Sarah Whatley, PhD	Civil/Env Engineering	C. Brown
• Stefan Christov, PhD	Computer Science,	L. Clarke, G. Avrunin
• Bin Chen, PhD	Computer Science,	L. Clarke, G. Avrunin
• Kavita Radhakrishnan, PhD	Nursing,	C. Jacelon
• Qiaohong Guo, PhD	Nursing,	C. Jacelon
• Kelley McAfee, PhD	Nursing,	E. Henneman
• Susan Scott, PhD	Nursing,	E. Henneman
• Mohammad Alkawaldehy, PhD	Nursing,	J. Choi
• Elliot Arsoniadis, PhD (U of MN)	Biomedical Informatics	G. Melton-Meaux
• Rubina Rizvi, PhD (U of MN)	Biomedical Informatics	G. Melton-Meaux

## **D. Undergraduate Students**

### ***Undergraduate Research Advisor***

- Rebecca Castenguay, Industrial Engineering (2017)
- Nicole Lynch, Industrial Engineering (2016)
- Matthew Brown, Industrial Engineering (2011 – 2013)
  - Commonwealth College Honors Thesis Primary Advisor
- Jenn Badylak-Reals, Industrial Engineering (2010 – 2013)
- Majdouline Rim Touil, Industrial Engineering (2011 – 2012)
  - Commonwealth College Honors Thesis Primary Advisor
- Chris Holland, Industrial Engineering (2009 – 2012)
- Abilgail Ellis, Industrial Engineering (2011)
  - Recipient of a Commonwealth Honors College Research Assistant Fellowship
- Dana Evernden, Industrial Engineering (2009 – 2011)
  - Recipient of a Commonwealth Honors College Research Assistant Fellowship
- Adam Duffield, Industrial Engineering (2010 – 2011)
  - Participant in Summer Research Experience for Undergraduates Program (REU)
- Brendan Walsh, Industrial Engineering (2009 – 2011)
- Lukasz Tabor, Industrial Engineering (2010)
- Anthony Fazio, Industrial Engineering (2009)
- Noah Duffey, Industrial Engineering (2009)
- Qi Ming Lin, Industrial Engineering (2008 – 2009)
- Caitlin Bogdan, Mechanical Engineering (2008)
  - Recipient of a Commonwealth Honors College Research Assistant Fellowship

### ***Commonwealth Honors College Undergraduate Thesis Committee Member***

- Mark Nuytkens, Mechanical Engineering (2015 – 2016)
- Nathan Young, Industrial Engineering (2013 – 2014)
- Tyler Loggins, Industrial Engineering (2013 – 2014)
- Dana Evernden, Industrial Engineering (2011 – 2012)
- Anna Vacha, Industrial Engineering (2010 – 2011)
- Isaac Wainstein, Industrial Engineering (2010 – 2011)

## **E. Teaching and Professional Development**

- University of Massachusetts Amherst Public Engagement Project Fellowship (2018)
- University of Massachusetts Amherst Team-Based Learning Fellowship (2012-2013)
- University of Massachusetts Amherst Lilly Teaching Fellowship (2011-2012)
- Women in Industrial Engineering Academia Workshop (NSF-Sponsored) (2008, 2012)
- National Science Foundation CAREER Proposal Writing Workshop (2009, 2011)
- Institute of Industrial Engineers New Faculty Colloquium (2009)
- American Medical Informatics Association Doctoral Colloquium (2006)
- National Science Foundation ADVANCE Transforming the Professoriate Workshop (2006)
- Delta Roundtable Dinners on Research, Teaching, and Learning (2005 – 2007)
- Engineering Professional Development Course on Teaching Science & Engineering in the College Classroom (2005)
- Delta Workshop on Understanding, Designing and Creating Teaching Portfolios (2005)
- University of Iowa Teaching Assistant
  - Human Factors and Ergonomics (2002)
  - Liaison Teaching Assistant between the Physics Department and College of Engineering (2001 – 2002)

## **III. RESEARCH FUNDING**

### **A. Grants and Contracts**

- *UMass Center for Building the Science of Symptom Self-Management (UManage Center)*, National Institute of Nursing Research (Award # P20 NR016599), \$1.23 Million, 7/16-6/21, Human Factors Core Director, with PI Cynthia Jacelon
- *Describing Eye Movement Changes Associated with Cancer-related Fatigue Using a Wearable Technology*, Rays of Hope Foundation, \$49,849, 4/16 – 4/18, Co-PI, with PI Rachel Klimmek and Co-PIs Deepak Ganesan and Adrian Staub
- *Unobtrusive Sensing of Medication Intake (USE-MI)*, National Institutes of Health (Award # R01 MH109319), \$1,789,566, 12/15 – 11/19, Joint PI, with PI Barry Saver (Swedish Medical Center) and Co-PI Deepak Ganesan
- *Overcoming Barriers for Transfer Students in the Engineering Pipeline*, National Science Foundation (Award # 1458225), \$632,369, 7/15-6/19, Co-PI with PI David Ford and Co-PIs Paula Rees, Sergio Brena, and Bill Leonard
- *Discovery and Visualization of New Information from Clinical Reports in the EHR*, Agency for Healthcare Research and Quality (Award # R01 HS022085), \$21,467, 9/15-8/17, Subcontract to the University of Minnesota, Genevieve Melton-Meaux (PI)

- *A Tablet-based Tool to Promote Self-Management of Older Adults with Chronic Health Problems*. University of Massachusetts Focus Grant (Pilot Funding), \$5,000, 4/14-3/15, Co-PI, with PI Cynthia Jacelon, and Co-PIs Allen Hanson, David Fisher, Raeann Leblanc and Eva Hudlicka
- *Model-Driven Process Guidance to Improve the Safety and Efficiency of Human-Intensive Healthcare Processes*, Joint funding initiative between the National Science Foundation and the Agency for Healthcare Research and Quality (Award # 1234070), \$326,336, 9/12 – 8/17, PI, with Co-PIs Lori Clarke and Elizabeth Henneman
- *CAREER: Computational Approaches to Model Physicians' and Patients' Interactions with Health Information Technology*, National Science Foundation (Award # 1150057), \$400,008, 7/12 – 6/18, Sole PI
- *BRIGE: Quantitative Model-Based Visualizations of Complex Health Care Processes*, National Science Foundation (Award # 1032574), \$174,336, 9/10 – 8/13, Sole PI
- *Controlling Disease Using Inexpensive Information Technology – Hypertension in Diabetes (CONDUIT-HID)*, Agency for Healthcare Research and Quality (Award # R18 HS18461-01A1), \$1,975,613, 7/10 - 6/14 Subcontract to UMass Medical School, Barry Saver (PI)
- *Collaborative Development of Climate Information for the Connecticut River Basin using Shared Vision Forecasting*, National Oceanic and Atmospheric Administration (Award # NA10OAR4310182), \$299,835, 9/10 – 8/12, Co-PI with Casey Brown (PI), Richard Palmer, and Erin Baker

#### IV. PUBLICATIONS

\*Student Author

##### A. Refereed Journal Publications

1. Henneman, E., **Marquard, J.**, Nichols, C.\*, Martinez, V.\*, DeSotto, K.\*, Scott, S., Soares, W., & Henneman, P. (2018). *The Stay S.A.F.E. strategy for managing interruptions reduces distraction time in the simulated clinical setting*. Accepted for Publication in Critical Care Nursing Quarterly.
2. Holman, G.T., Waldren, S.E., Beasley, J.W., Cohen, D.J., Dardick, L.D., Fox, C.H., **Marquard, J.**, Mullins, R., North, C.Q., Rafalski, M. and Rivera, A.J. (2018). *Meaningful use's benefits and burdens for US family physicians*. Journal of the American Medical Informatics Association.
3. Rizvi, R. F.\*, **Marquard, J. L.**, Hultman, G. M., Adam, T. J., Harder, K. A., & Melton, G. B. (2017). *Usability Evaluation of Electronic Health Record System around Clinical Notes Usage—An Ethnographic Study*. Applied Clinical Informatics, 8(4), 1095-1105.
4. Henneman, E., Gawlinski, A., Nichols, C.\*, McAfee, K.\*, **Marquard, J.**, & Andrzejewski, C. (2017). *Identification of Transfusion-Associated Circulatory Overload: An Eye-Tracking Study*. Clinical Simulation in Nursing, 13(12), 675–79.
5. Martinez, V.\*, **Marquard, J.**, Saver, B., Garber, G., & Preusse, P. (2017). *Consumer health informatics interventions must support user workflows, be easy-to-use, and*



- improve cognition: applying the SEIPS 2.0 model to evaluate patients' and clinicians' experiences with the CONDUIT-HID intervention. International Journal of Human-Computer Interaction, 33(4), 333-43.*
6. Christov, S., **Marquard, J.**, Clarke, L., & Avrunin, G. (2017). *Assessing the Effectiveness of Five Process Elicitation Methods: A Case Study of Chemotherapy Treatment Plan Review. Applied Ergonomics, 59, 364-376.*
  7. Henneman, E., **Marquard, J.**, Fisher, D., & Gawlinski, A. (2017). *Eye tracking: A novel approach for evaluating and improving the safety of healthcare processes in the simulated setting. Simulation in Healthcare, 12(1), 51-56.*
  8. Hultman, G., **Marquard, J.**, Arsoniadis, E.\*, Mink, P., Rizvi, R.\*, Ramer, T., Khairat, S., Fickau, K., & Melton, G. (2016). *Usability Testing of Two Ambulatory EHR Navigators. Applied Clinical Informatics, 7(2), 502-15.*
  9. Amster, B.\*, **Marquard, J.**, Henneman, E., & Fisher, D. (2015). *Using an Eye Tracker during Medication Administration to Identify Gaps in Nursing Students' Contextual Knowledge: An Observational Study. Nurse Educator, 40(2), 83-86.*
  10. Saver, B., **Marquard J.**, Garber, L., Amster, B.\*, Preusse, P., & Gove, D. (2015). *Barriers to Implementing and Disseminating an Intervention to Improve Hypertension Control with Home Monitoring and Uploading of Data into an Electronic Health Record. J Patient-Centered Res Rev, 2(2).*
  11. Brown, P., **Marquard, J.**, Amster, B.\*, Romoser, M., & Fisher, D. (2014). *What Do Physicians Read (and Ignore) in Electronic Progress Notes? Applied Clinical Informatics, 5(2) 430-44.*
  12. Lopez, M.\*, Esparza, A.\*, Lavine, M, & **Marquard, J.** (2014). *Your textbook can't help you here: Applying traditional methods to atypical data. Chance, 27(2) 13-20. (educational article in collaboration with statistics graduate students)*
  13. Henneman, E., Cunningham, H., Fisher, D., Plotkin, K., Roche, J., Nathanson, B. H., **Marquard, J.**, Reilly, C., Shen, Y.\*, & Hennemen, P. (2014). *Eye-tracking as a debriefing mechanism in the simulated setting improves patient safety practices. Dimensions of Critical Care Nursing, 33(3), 129-35.*
  14. Jo, J.\*, **Marquard, J.**, Clarke, L., & Hennman, P. (2013). *Re-examining the requirements for verification of patient identifiers during medication administration: No wonder it is error-prone. IIE Transactions on Healthcare Systems Engineering, 3(4), 280-91.*
  15. **Marquard, J.**, Garber, L., Saver, B., Amster, B.\*, Kelleher, M., & Preusse, P. (2013). *Overcoming challenges integrating patient-generated data into the clinical EHR: Lessons from the CONTrolling Disease Using Inexpensive IT - Hypertension in Diabetes (CONDUIT-HID) Project. International Journal of Medical Informatics, 82(10), 903-10.*
  16. Radhakrishnan, K.\*, Jacelon, C., Bigelow, C., Roche, J., **Marquard, J.**, & Bowles, K. (2013). *Use of a homecare electronic health record to find associations between patient characteristics and re-hospitalizations in patients with heart failure using telehealth. Journal of Telemedicine and Telecare, 19(2), 107-12.*
  17. Radhakrishnan, K.\*, Jacelon, C., Bigelow, C., Roche, J., **Marquard, J.**, & Bowles, K. (2013). *Association of comorbidities with home care service utilization of patients with heart failure while receiving telehealth. Journal of Cardiovascular Nursing, 28(3), 216-27.*

18. **Marquard, J.**, Jo, J.\*, Henneman, P., Fisher, D., & Henneman, B. (2013). *Can visualizations complement our choices of quantitative process analysis measures? A case study of nurses identifying patients before administering medications.* Journal of Cognitive Engineering and Decision Making, 7(2), 198-2010.
19. Mei, Y.Y.\*, **Marquard, J.**, Jacelon, C., & DeFeo, A. (2013). *Designing and evaluating an electronic patient falls reporting system: Perspectives for the implementation of health information technology in long-term residential care facilities.* International Journal of Medical Informatics, 82(11), 294-306.
20. Mertens, W., Christov, S.\*, Avrunin, G., Clarke, L., Osterweil, L., Cassels, L., & **Marquard, J.** (2012). *Using process elicitation and validation to understand and improve chemotherapy ordering and delivery.* Joint Commission Journal on Quality and Patient Safety, 38(11), 497-505.
21. Henneman, P., **Marquard, J.**, Fisher, D., Bleil, J.\*, Walsh, B.\*, Henneman, J.\*, Blank, F., Higgins, A.M., Nathanson, B., & Henneman, E. (2012). *Barcode verification: Reducing but not eliminating medication errors.* Journal of Nursing Administration, 42(12), 562-6.
22. **Marquard, J.** & Zayas-Cabán, T. (2012). *Commercial off-the-shelf consumer health interventions: Recommendations for their design, evaluation, and redesign.* Journal of the American Medical Informatics Association, 19(1), 137-42.
23. Guo, Q.\*, Jacelon, C, & **Marquard, J.** (2012). *An evolutionary concept analysis of palliative care.* Journal of Palliative Care Medicine, 2(7).
24. **Marquard, J.**, Henneman, P., He, Z.\*, Jo, J.\*, Fisher, D., & Henneman, E. (2011). *Nurses' behaviors and visual scanning patterns may reduce patient identification errors.* Journal of Experimental Psychology: Applied, 17(3), 247-56.
25. **Marquard, J.**, Duffey, N.\*, & Lin, Q.M.\* (2011). *Consumer decision-making strategies and use of hospital quality measures.* Quality Management Journal, 18(4), 25-35.
26. **Marquard, J.** & Brennan, P. F. (2009). *Crying wolf: Consumers may be more willing to share medication information than policymakers expect.* Journal of Healthcare Information Management, 23(2), 26-32.
27. Ghosh, T., & **Marquard, J.** (2007). *Development of regional health information organizations (RHIOs): knowledge networks and collaboration.* International Journal of Public Policy, 2(3/4).
28. **Marquard, J.**, Moen, A., & Brennan, P.F. (2006). *Photographic data – An untapped resource to explore complex phenomena such as health information and management in the household (HIMH).* Studies in Health Technology and Informatics, 122, 58-62.

## B. Book Chapters

1. Zayas-Cabán, T., & **Marquard, J.** (2012). Using human factors to guide the design and implementation of consumer health informatics interventions. In Augusto, J.C. et al. (Eds.), *The handbook of ambient assistive - technology for healthcare, rehabilitation and well-being. (ambient intelligence and smart environments)*. Amsterdam: IOS Press, 22-36.
2. **Marquard, J.** (2009). Finding an academic home. In Pei, Z.J. (Ed.), *Tips on getting an academic position*. Raleigh, NC: Lulu, 28-32.

3. **Marquard, J.** & Robinson, S. (2008). Reducing perceptual and cognitive challenges in making decisions with models. In Kugler, T., Smith, J.C., Connolly, T., & Son, Y.-J. (Eds.), *Decision modeling and behavior in complex and uncertain environments*. New York: Springer, 33-55.

### C. Refereed Conference Publications

1. Valdez, R., Holden, R., Khunlerkit, N., **Marquard, J.**, McGuire, K., Nathan-Roberts, D., Ozkaynak, M., & Ramly, E. (2017). *Patient Work Methods: Current Methods of Engaging Patients in Systems Design in Clinical, Community and Extraterrestrial Settings*. Proceedings of the Human Factors and Ergonomics Society Annual Meeting.
2. **Marquard, J.**, Saver, B., Kandaswamy, S\*, Martinez, V\*, Simoni, J, Stekler, J, Ganesan, D, Noran, S\*, & Scanlan, J. (2017). *Development of a Wrist-Worn Sensor to Improve Medication Adherence: Designing for Diverse User Behaviors and Technology Preferences*. Proceedings of the American Medical Informatics Association Annual Meeting.
3. Hultman G, **Marquard J**, Kandaswamy, S\*, Lindemann E, & Melton G. (2017). *How do physicians read electronic progress notes?* Proceedings of the American Medical Informatics Association Annual Meeting.
4. Rizvi, R\*, **Marquard, J**, Seywerd, M, Adam, T, Elisone, J, Hultman, G, Harder, K., & Melton, G. (2017). *Usability Evaluation of an EHR's Clinical Notes Interface from Attendings' and Residents' Perspectives - An Exploratory Study*. Proceedings of the 16th World Congress on Medical and Health Informatics (MedInfo2017).
5. Alkawaldeh, M., Choi, J., Jacelon, C., **Marquard, J.**, & Ridgway, J. (2017). *Tablet-Based Self-Management Intervention for Diabetes Mellitus Type II Patients: Usability and Efficacy of the ASSISTwell Tool*. Proceedings of the Eastern Nursing Research Society Conference.
6. Jacelon, C, Wysocki, A., Spencer, R., **Marquard, J.**, & Ganesan, D. (2017). *A Functional Approach to Building the Science of Symptom Self-Management*. Proceedings of the Eastern Nursing Research Society Conference.
7. Hultman G, **Marquard J**, Ighile O, Farri O, Lindemann E, Arsoniadis E\*, Pakhomov S, & Melton G. (2016). *Does Section Order Affect Physicians' Experiences Reviewing Ambulatory Progress Notes?* Proceedings of the American Medical Informatics Association Annual Meeting.
8. He Z\*, **Marquard J**, & Henneman E. (2016). *Model Guided Design and Development Process for an Electronic Health Record Training Program*. Proceedings of the American Medical Informatics Association Annual Meeting.
9. Holden R, Valdez R, Hundt A, et al. (2015). *Field-Based Human Factors in Home and Community Settings: Challenges and Strategies*. Proceedings of the Human Factors and Ergonomics Society Annual Meeting.
10. Hultman G, Arsoniadis E, **Marquard J**, et al. (2015) *Usability Testing of an Ambulatory EHR Navigator*. Proceedings of the American Medical Informatics Association Annual Symposium.
11. Arsoniadis E, Khatri R, **Marquard J**, et al. (2015) *A Review and Analysis of Rounding and Handoff Document Content in Inpatient Resident Physician Teams*. Proceedings of the American Medical Informatics Association Annual Symposium.

12. Doberne J, He Z, Mohan V, et al. (2015). *Using High-Fidelity Simulation and Eye Tracking to Characterize Workflow Patterns among Hospital Physicians*. Proceedings of the American Medical Informatics Association Annual Symposium.
13. Valdez, R., Holden, R., Hundt, A., **Marquard, J.**, Montague, E., Nathan-Roberts, D., & Or, C. (2014). *The Work and Work Systems of Patients: A New Frontier for Macroergonomics*. Proceedings of the Human Factors and Ergonomics Society Annual Meeting.
14. He, Z.\*, **Marquard, J.**, & Henneman, P. (2014). *How do Interruptions Impact Nurses' Visual Scanning Patterns When Using Barcode Medication Administration Systems?* Proceedings of the American Medical Informatics Association Annual Symposium, 1768-76.
15. He, Z.\*, **Marquard, J.**, & Henneman, P. (2011). *Nurses' visual scanning patterns during the medication administration process*. Proceedings of the IEEE Systems and Information Engineering Design Symposium (SIEDS'11), 12-17.
16. Karsh, B., Garrett, S., Rogers, M., Rivera-Rodriguez, J.\*, **Marquard, J.**, & Wetterneck, T. (2010). *Human Factors Contributions toward Medication Safety*. Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 54(12), 812-15.
17. Lazzara, E., Weaver, S., Karsh, B., Guerlain, S., Metcalf, D., **Marquard, J.**, & Gorman, P. (2010). *Just what the doctor ordered?: The role of cognitive decision support systems in clinical decision-making & patient safety*. Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 54(12), 826-29.
18. **Marquard, J.** & Mei, Y.Y.\* (2010). *Using process visualizations to validate electronic form design*. Proceedings of the American Medical Informatics Association Annual Symposium, 497-501.
19. **Marquard, J.**, Henneman, P., Pham, T.\*, Campbell, M.\* & Fisher, D. (2010). *Using clinical simulations to inform process improvement interventions*. Proceedings of the Society for Health Systems Annual Meeting.
20. Zayas-Cabán, T, **Marquard, J.**, Radhakrishnan, K.\*, Duffey, N.\* & Evernden, D.\* (2009). *Scenario-based user testing to guide consumer health informatics design*. Proceedings of the American Medical Informatics Association Annual Symposium, 719-23.
21. Zayas-Cabán, T. & **Marquard, J.** (2009). *A holistic human factors evaluation framework for the design of consumer health informatics interventions*. Proceedings of the Human Factors and Ergonomics Society Annual Conference, 53(16), 1003-7.
22. **Marquard, J.** & Brennan, P. F. (2009). *Using decision scenarios to evaluate laypeople's computer-mediated medication information sharing choices*. Proceedings of the International Conference on Naturalistic Decision Making, 241-48.
23. **Marquard, J.** (2009). *Teaching IE students how to convey technical models and analyses to decision-makers*. Proceedings of the Industrial Engineering Research Council (IERC) Annual Meeting, 212-16.
24. Ferris, M., Brennan, P. F., Tang, L., **Marquard, J.**, Robinson, S., & Wright, S. (2007). *Creating operations research models to guide RHIO decision making*. Proceedings of the American Medical Informatics Association Annual Symposium, 240-44.
25. **Marquard, J.**, Moen, A., & Brennan, P. F. (2006). *Photographic data – an untapped resource to explore complex phenomena such as health information management in the*

*household (HIMH)*. Proceedings of NI2006: Consumer-Centered Computer-Supported Care for Healthy People, 58-62.

26. Brennan, P. F., Ferris, M., Robinson, S., Wright, S., & **Marquard, J.** (2005). *Modeling participation in the NHII: Operations research approach*. Proceedings of the American Medical Informatics Association Annual Symposium, 76-80.
27. Zayas-Caban, T., **Marquard, J.**, & Brennan, P. F. (2005). *How do information technology choices made by an institution alter consumer participation in the health care system?* Proceedings of Human Factors in Organizational Design and Management – VIII.

#### **D. Refereed Conference Posters**

1. Marquard, J., Ganesan, D., Simoni, J., Stekler, J., Martinez, V., Kandaswamy, S., Noran, S., Scanlan, J., & Saver, B. (2017). *Development of a Wrist-Worn Sensor to Measure ART and PrEP Adherence: Preliminary End-User Design Preferences*. Adherence 2017, June 4-6, Miami, FL.
2. Scanlan, J., Saver, B., Stekler, J., Marquard, J., & Simoni, J. (2017). *Mediset use associated with better adherence, reduced stimulant use and viral loads in HIV+ patients*. Adherence 2017, June 4-6, Miami, FL.
3. Cyr, J., Karagkiaouris, G., Christov, C., Conboy, H., Avrunin, G., Clarke, L., Osterweil, L., Henneman, E., **Marquard, J.**, Famigletti, N. (2017). *Web-based Smart Checklists for Guiding Performers of Safety-Critical Human-Intensive Processes*. American Society for Engineering Education Northeast Section Conference. April 27-29, Lowell, MA.
4. Botney R, Marquard J, & Gorman P. (2016). *Usability Testing a Redesigned Display Interface for an Electronic Preoperative Anesthesia Record*. Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care.
5. Saver, B, **Marquard, J**, Garber L, et al. (2015). *The Conduit Study to Improve Control of Hypertension with Uploading of Home Monitoring Data to the EHR and Nurse-Based Protocols – Implementation and Outcomes*. AcademyHealth Annual Research Meeting.
6. Doberne J, Kakaday R, Redd T, et al. *Physicians Using the EHR during Initial Patient Visits: Qualitative Analysis of Perceptions and Challenges*. Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care, 4(1) 143-149.
7. Jo, J.\*, **Marquard, J.**, Clarke, L., & Hennman, P. (2014). *Impact of barcode design on the medication administration process*. Proceedings of the American Medical Informatics Association Annual Symposium, 2014.
8. Amster, B.\*, Brown, P., **Marquard, J.**, Romoser, M., & Fisher, D. (2014). *How Do Physicians Visually Navigate Through Information in Electronic Progress Notes?* Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care.
9. He, Z.\*, & **Marquard, J.** (2014). *Using Educational and Learning Theory to Guide Health Information Technology Training*. Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care.
10. He, Z.\*, **Marquard, J.**, & Henneman, E. (2014). *Redundancy as a Process Design Strategy to Improve Patient Safety: A Case Study of the Medication Reconciliation*

*Process*. Proceedings of the Symposium on Human Factors and Ergonomics in Health Care.

11. Henneman, E., **Marquard, J.**, & Gawlinski, A. (2013). *Using eye-tracking technology to examine the surveillance patterns of bedside nurses*. Proceedings of the 13th International Meeting on Simulation in Healthcare.
12. Mertens, W., Christov, S.\*, Avrunin, G., Clarke, L., Osterweil, L., Cassels, L., & **Marquard, J.** (2012). *Understanding and improving chemotherapy ordering and delivery using process elicitation and validation*. Journal of Clinical Oncology, 30(suppl 34), abstr 89.
13. Brown, P., Amster, B.\*, **Marquard, J.**, Romoser, M., & Fisher, D. (2012). *Where do physicians direct their attention when reading electronic notes?* Proceedings of the American Medical Informatics Association Annual Symposium, 1695.
14. Pham, A.\*, Baker, E., **Marquard, J.**, Brown, C., Palmer, R., & Whately, S.\*. (2012). *What are water managers thinking about climate change in the northeast?* 3rd annual student-organized WSSS Interdisciplinary Water Symposium.
15. Guo, Q.\*, Jacelon, C., & **Marquard, J.** (2012). *Information needs of terminally ill patients and their family members*. Eastern Nursing Research Society Annual Meeting. New Haven, CT.
16. Guo, Q.\*, **Marquard, J.**, & Jacelon, C. (2012). *An evolutionary concept analysis of palliative care*. Eastern Nursing Research Society Annual Meeting. New Haven, CT.
17. Guo, Q.\*, Jacelon, C., & **Marquard, J.** (2011). *Information needs of terminally ill patients and their family members*. Beta Zeta at Large Scholarship Day 2011. Holyoke, MA.
18. Whately, S. \*, Steinschneider, S.\*, Brown, C., Palmer, R., **Marquard, J.**, & Baker, E. (2011). *Developing a knowledge network of climate information using shared vision forecasting for the Connecticut River Basin*. 8th Water Resources Conference at the University of Massachusetts Amherst.
19. Henneman, P., **Marquard, J.**, Fisher, D., Bleil, J.\*, Walsh, B.\*, Henneman, J.\*, Blank, F., Higgins, A.M., Nathanson, B., & Henneman, E. (2010). *Bar-code scanning may reduce but not eliminate medication and patient identification errors in clinical simulation*. American College of Emergency Physicians Research Forum.
20. **Marquard, J.** (2009). *Eliciting design requirements for commercial off-the-shelf consumer health informatics (CHI) interventions*. Proceedings of the American Medical Informatics Association Annual Symposium, 953.
21. Mei, Y.\*, **Marquard, J.**, Jacelon, C. S., & DeFeo, A. (2009). *Creating a falls reporting system using commercial off-the-shelf technology*. Proceedings of the American Medical Informatics Association Annual Symposium, 964.
22. **Marquard, J.** & Brennan, P. F. (2009). *A misfit tool: Patients' (lack of) use of a structured decision aid*. Proceedings of the International Conference on Naturalistic Decision Making, 237-38.
23. **Marquard, J.**, Christov, S.\*, Henneman, P., Clarke, L., Osterweil, L., Avrunin, G., Fisher, D., Henneman, E., Campbell, M.\*, Pham, T.\* & Lin, Q. M.\* (2009). *Studying rigorously defined health care processes using a formal process modeling language, clinical simulation, observation, and eye tracking*. Proceedings of the International Conference on Naturalistic Decision Making, 239-40.

24. **Marquard, J.** & Brennan, P. F. (2009). *A failure to see the forest through the trees: Evaluating patients' use of a balanced scorecard-based decision aid*. Proceedings of the Industrial Engineering Research Council Annual Meeting, Miami, FL, USA.
25. Valdez, R. & **Marquard, J.** (2008). *Improving informed consent in bioinformatics research: A design-for-understanding approach*. Proceedings of the American Medical Informatics Association Annual Symposium, 1160.
26. Ozkaynak, M., **Marquard, J.**, Hsieh, Y., Brennan, P. F., & Zayas-Caban, T. (2007). *Are lay people ready for health information exchange?* Proceedings of the American Medical Informatics Association Annual Symposium, 1065.
27. **Marquard, J.**, Brennan, P. F., Grindrod, D., & Zayas-Caban, T. (2005). *Health information exchange networks: Understanding stakeholder views*. Proceedings of the American Medical Informatics Association Annual Symposium, 1044.
28. Moen, A., & **Marquard, J.** (2004). *What do consumers do with health information at home?* Poster presentation at the Tromso Telemedicine and eHealth Conference, Tromso, Norway. (**Best Poster Award**)

## E. Invited Lectures

1. *Designing for people: Personal health monitoring device usability workshop*. Sponsored by the NIH P20-funded UManage Center: UMass Center for Building the Science of Symptom Self-Management. (2017).
2. *Eye-tracking as a method for understanding clinicians' interactions with health information technology*. American Medical Informatics Association Webinar. (2016).
3. *Integrating Patient-Generated Data into the Electronic Health Record: Patient, Nurse, and Physician Perspective*. UMass Retired Faculty Association. (2016).
4. *Integrating Patient-Generated Data into the EHR: Primary Care Clinician and Patient Perspectives*. Improving Primary Care Through Industrial and Systems Engineering (I-PrACTISE) Annual Conference. (2015).
5. *Integrating Patient-Generated Data into the EHR: Primary Care Clinician and Patient Perspectives*. University of Minnesota Informatics Grand Rounds. (2015).
6. *Linking Providers' Information Search Patterns to Patient Safety*. Presentations at Oregon Health and Sciences University OB/GYN Grand Rounds, Anesthesiology & Perioperative Medicine Grand Rounds, and Pulmonary & Critical Care Research Seminar, Portland, OR, USA. (2014).
7. *Developing Behavioral and Cognitive Models of Physicians', Nurses', and Consumers' interactions with health information technology*. Presentation at the UMass College of Nursing Office of Research Seminar, Amherst, MA, USA. (2014).
8. *Interdisciplinary Approaches to Assessing Healthcare Providers' and Consumers' Health Information Needs*. Presentation at the Oregon Health Sciences University Department of Medical Informatics and Clinical Epidemiology, Portland, OR, USA. (2014).
9. *Interdisciplinary Approaches to Assessing Healthcare Providers' and Consumers' Health Information Needs*. Presentation at the University of Wisconsin Madison Industrial and Systems Engineering Colloquium, Madison, WI, USA. (2014).
10. *New tactics for managing chronic diseases*. Presentation at the Microsoft Connected Health Conference, Chicago, IL, USA (2011).

11. *Health care process execution*. Presentation at the University of Michigan Industrial and Operations Engineering Seminar, Ann Arbor, MI, USA. (2009).
12. *Health care process execution*. Presentation to the Massachusetts Institute of Technology (MIT) Humans and Automation Laboratory, Boston, MA, USA. (2009).
13. *Are we crying wolf? Lay people may be more willing to share medication information than policy makers expect*. Presentation at the University of Massachusetts Science, Technology and Society Colloquium, Amherst, MA, USA. (2009).
14. *The decision to use an analysis is a decision process in itself: How a business framework can help us rigorously study this process*. Presentation to the University of Massachusetts INFORMS Chapter Colloquium, Amherst, MA, USA. (2008).

#### **F. Invited Conference Presentations and Posters (Unpublished)**

1. Martinez V, **Marquard J**, Saver B, Garber L, & Preusse P. (2016). *Taking an (Even More) Holistic Approach to Consumer Health Informatics Design*. Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care.
2. **Marquard, J.** (2012). *Broadening participation: Research initiation grants in engineering*. Poster presentation at the Workshop on Women in Industrial Engineering Academia, Istanbul, Turkey.
3. **Marquard, J.**, Saver, B., Amster, B.\*, Jo, J.\*, Preusse, P., Kirk, D., & Garber, L. (2012). *In-home observations of patients' uptake and use of the CONDUIT-HID consumer health informatics intervention*. Presentation at the HFES 2012 Symposium on Human Factors and Ergonomics in Health Care, Baltimore, MD, USA
4. **Marquard, J.**, He, Z.\*, & Henneman, P. (2011). *Nurses' behaviors and eye fixation patterns in the medication administration process*. Presentation at the INFORMS 2011 Healthcare Conference, Montreal, Québec, Canada.
5. He, Z.\*, Henneman, P., & **Marquard, J.** (2011). *Nurses' behaviors and eye fixation patterns in the medication administration process*. Presentation at the INFORMS 2011 Northeastern Conference, Amherst, MA, USA.
6. Jo, J.\*, **Marquard, J.**, Clarke, L., & Henneman, P. (2011). *Using properties to validate the patient identification process in a simulated setting*. Presentation at the INFORMS 2011 Northeastern Conference, Amherst, MA, USA.
7. **Marquard, J.** (2009). *Assessing expertise and efficiency in health care process execution*. Presentation at the Mayo Clinic Conference on Systems Engineering and Operations Research, Rochester, MN, USA
8. Mei, Y.\*, **Marquard, J.**, Jacelon, C., MacDonald, B., & Defeo, A. (2009). *Creating a falls reporting system using commercial off-the-shelf technology*. Poster presentation at the Jewish Geriatric Services Annual Research Day, Longmeadow, MA, USA.
9. **Marquard, J.** (2008). *Developing a decision aid for laypeople choosing whether to share their medication information*. Presentation at the Institute for Operations Research and the Management Science Annual Meeting, Washington DC, USA.
10. Bogdan, C.\* & **Marquard, J.** (2008). *Disaster relief assignment problems: Including conflict between communities and relief organizations*. Presentation at the Institute for Operations Research and the Management Science Annual Meeting, Washington DC, USA.



11. Ellis, K., Oguntebi, J., **Marquard, J.**, Sivrikaya Serifoglu, F. & Ozmutlu, S. (2008). *Encouraging girls to study engineering*. Panel presentation at the Workshop on Women in Industrial Engineering Academia, Ankara, Turkey.
12. **Marquard, J.** (2008). *Visualizing female and minority enrollment in higher education*. Poster presentation at the Workshop on Women in Industrial Engineering Academia, Ankara, Turkey.
13. **Marquard, J.** & Robinson, S. (2007). *Making decisions with models: Uncovering perceptual and cognitive challenges*. Presentation at the Institute for Operations Research and the Management Science Annual Meeting, Seattle, USA.
14. Brennan, P. F., **Marquard, J.**, & Morales, M. (2007). *Translating knowledge into practice: Intellectual inheritance in informatics innovations*. Presentation at the American Medical Informatics Association Annual Symposium, Washington DC, USA.
15. **Marquard, J. L.**, Brennan, P. F., Overhage, J. M., Robinson, S. M., & Goodman, K. W. (2006) *Uncertain health informatics decisions: How should we address them?* Panel presentation at the American Medical Informatics Association Annual Symposium, Washington DC, USA.
16. Brennan, P. F. & **Marquard, J.** (2006). *Societal implications of PHRs*. Presentation at The Harvard Medical School Meeting on Personally Controlled Health Record Infrastructure (PCHRI), Boston, MA, USA.
17. Brennan, P. F., Robinson, S., Ferris, M., Wright, S., & **Marquard, J.** (2005). *Quantifying the value of RHIOs for nursing*. Presentation at the American Medical Informatics Association Annual Symposium, Washington DC, USA.

## H. Non-Refereed Publications

1. Weaver, C. M., & **Marquard, J.** (2004). Improving forecast accuracy. *Industrial Engineer*, 36(5), 40.

## VII. SERVICE

### A. Mechanical and Industrial Engineering Department

- Industrial Engineering Group Lead (2013 – 2014)
- Search Committees
  - Chair, Industrial Engineering Faculty Member Search Committee (2017)
  - Campus High-Impact Hire (2014)
  - Medical Devices Search Committee (cluster-hire) (2013)
  - Research Postdoc Search Committee (2013, 2015)
  - Research Faculty Member Search Committee (2012)
  - Mechanical Engineering Faculty Member Search Committee (2010)
  - Department Head Search Committee (2009)
  - Industrial Engineering Faculty Member Search Committee (2008)
- Departmental Committees
  - Buy Out, Academic Time, and Continuing Professional Education Committee (2014)

- Communications and Outreach Committee (2012-2013)
- Engineering Management Masters Committee (2017-Present)
- Department Personnel Committee (2009-2010, 2017-2018)
- Undergraduate Curriculum Committee (2009, 2010, 2011, 2013)
- Guest Lecturer
  - Introduction to Mechanical and Industrial Engineering (2013)
  - Mechanical and Industrial Engineering Professional Seminar (2013)

## **B. College of Engineering**

- CAREER Proposal Panel Member (2014)
- Search Committees
  - Biomedical Engineering Department Chair (2017)
  - Chair, Joint Faculty Member Search Between the College of Engineering and the Institute for Applied Life Sciences (2015-2016)
  - Civil and Environmental Engineering Faculty Member Search Committee (2012)
  - Integrative Systems Engineering Faculty Member Search Committee (2008-2009)
- Faculty Liaison to the Diversity Programs Office (2012-Present)
- New Student Orientation Advisor (2008, 2009, 2010, 2013)
- Presenter, College of Engineering Open House (2009, 2010)

## **C. University of Massachusetts Amherst**

- Guest Lecturer
  - Computer Science: Wearable and Mobile Sensors in Clinical Sciences (2017)
- UMass Institute of Diversity Sciences Steering Committee (2017 – Present)
- Faculty Senate Research Library Council (2017 – Present)
- UMass Center for Personalized Health Medicine Steering Committee (2015 – Present)
- Joint Faculty Member Search Between the College of Information and Computer Science and the Institute for Applied Life Sciences (2015-2016, 2016-2017)
- Panel Member on ‘Dealing with Difficult Students’ (2014)
- Office of Teaching and Faculty Development Seminar on Student Team Peer Assessment (2014)
- Commonwealth Honors College Proposal Review Committee for New Faculty Hires (2011)

## **D. Professional Organizations**

- Scientific Program Committee, American Medical Informatics Association Annual Meeting (2017)

- Office of the National Coordinator for Health IT, Consumer Task Force. (2016 – Present)
- Academic Career Advancement Committee, Women in AMIA (American Medical Informatics Association) Task Force (2016 – Present)
- Faculty Advisory Member, Oregon Health & Science University Submission to the American Medical Informatics Association Student Design Competition (2014)
  - Winner out of 16 teams
- Editorial Board, Human Factors (2013 – Present)
- Associate Editor, IEEE Transactions on Human-Machine Systems (2013 – Present)
- Associate Editor, Applied Ergonomics (2016 – Present)
- Symposia on Human Factors and Ergonomics in Health Care
  - Healthcare Information Technology Track Chair (2016)
  - Healthcare Information Technology Program Committee (2012, 2013, 2014, 2015)
  - Judge, Health Care mHealth Student Design Competition (2015)
- Guest Editor, Special Issue of the Journal Work on “Health Work in the Home” (2010 – 2012)
- Early Career Event Committee, Human Factors and Ergonomics Society Annual Meeting (2011 – 2012)
- Student Paper Award Committee, Human Factors and Ergonomics Society Health Care Technical Group (2011 – 2012)
- Newsletter Editor, Human Factors and Ergonomics Health Care Technical Group (2009 – 2011)
- Membership Committee, American Medical Informatics Association (2009 – Present)
- Publications Committee: American Medical Informatics Association (2009 – 2010)
- Conference Session Chair
  - International Symposium on Human Factors and Ergonomics in Health Care (2013, 2015)
  - Human Factors and Ergonomics Society (2010, 2011, 2015)
  - Institute for Operations Research and the Management Sciences (2007, 2008)
  - Institute for Operations Research and the Management Sciences 2011 Healthcare Conference (2011)
- Panel Reviewer, National Science Foundation (2009 – 2x, 2010, 2011, 2013, 2015, 2016)
- Ad-hoc Reviewer
  - National Science Foundation (2007, 2012)
  - Natural Sciences and Engineering Research Council (NSERC) and the Canadian Institutes of Health Research (CIHR) (2011)

### ***Reviewed Papers For:***

- Health Informatics
  - *Journal of the American Medical Informatics Association*
  - *Applied Clinical Informatics*
  - *Journal of Medical Internet Research*
  - *Future Internet*
  - *International Journal of Computer Assisted Radiology and Surgery*
  - *American Medical Informatics Association Annual Conference*
  - *IMIA Yearbook of Medical Informatics*
  - *Health Informatics Journal*
- Human Factors and Ergonomics
  - *Human Factors*
  - *Ergonomics*
  - *International Journal of Industrial Ergonomics*
  - *Human Factors and Ergonomic Society Annual Conference*
  - *Symposium on Human Factors and Ergonomics in Health Care*
- Industrial Engineering
  - *Decision Analysis*
  - *European Journal of Industrial Engineering*
  - *IEEE Systems Journal*
  - *Institute of Industrial Engineers Annual Conference*