

## **Parisa Rashidi, PhD**

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### **APPOINTMENTS**

#### **University of Florida**

Associate Professor

August '20 - Present

Assistant Professor

August '13 – June '20

Department of Biomedical Engineering

Affiliated, Department of Electrical & Computer Engineering

Affiliated, Department of Computer & Information Science & Engineering

Affiliated, Department of Aging and Geriatric Research

#### **Northwestern University**

September '12 – June '13

Assistant Professor, Center on Health and Engineering

Affiliated, Department of Computer Science

#### **University of Florida**

September '11 – May '12

Research Scientist,

Department of Computer & Information Science & Engineering

#### **Washington State University**

Graduate Research Assistant

September '06 – May '11

#### **Microsoft Research**

Intern, Health Systems Group, Washington, D.C.

June '09 – September '09

#### **Microsoft Research**

Intern, Robotics Group, Redmond, WA

June '08 – September '08

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### **EDUCATION**

Washington State University

Research Area: Activity Recognition, Machine Learning

**Ph.D., Computer Science**

May 2011

Washington State University

Research Area: Activity Recognition, Machine Learning

**M.Sc., Computer Science**

December 2007

University of Tehran

Area: Software Engineering

**B.S., Computer Engineering**

September 2005

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## HONORS & AWARDS

- 2022 Faculty Award for Excellence in Leadership, Herbert Wertheim College of Engineering (HWCOE Excellence Award)
- 2021 Elected member of U.S. Food and Drug Administration (FDA)'s Network of Digital Health Experts (NoDEx), Digital Health Center of Excellence
- 2021 National Academy of Medicine (NAM) Scholar in Diagnostic Excellence, Finalist
- 2020 Faculty Research Excellence Award, Biomedical Engineering Department (BME), University of Florida
- 2020 Pruitt Family Endowed Faculty Fellowship, University of Florida
- 2019 Trailblazer Award, National Institute of Health (NIH),
- 2019 Mitchell Max Award, Finalist, National Institute of Health (NIH)
- 2019 Excellence Award for Assistant Professors, University of Florida (UF Excellence Award)
- 2019 Excellence Award for Assistant Professors, Herbert Wertheim College of Engineering (HWCOE Excellence Award)
- 2019 Faculty Research Excellence Award, Biomedical Engineering Department (BME), University of Florida
- 2019 Senior Member Grade, Institute of Electrical and Electronics Engineers (IEEE)
- 2018 Term Professorship, Excellence in Research, Teaching, Service, University of Florida (UF)
- 2018 National Science Foundation Faculty Early Career Development Program (NSF CAREER)
- 2017 Frontiers of Engineering (FOE), National Academy of Engineering (NAE)
- 2015 Career Development Award, Biomedical Engineering Society (BMES)
- 2015 Microsoft Faculty Summit Invited Participant
- 2014 National Science Foundation Travel Award, Computing Challenges in Future Mobile Health Systems and Applications Workshop
- 2011 The Outstanding Dissertation Award, Washington State University, WA
- 2006 Graduate Research Award, Washington State University, WA

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## PUBLICATIONS

**Summary:**

<b>Total Citation Count</b>		7000+
<b>h-index</b>		32
<b>i10-index</b>		56
<b>Peer-reviewed Publications</b>	161	
Journal Articles	72	
Conference Proceedings	36	
Book Chapters	6	
Editorial Report	5	
Conference Abstracts	42	

[Google Scholar Link](#)

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**Journal Articles**

1. Davoudi, Anis; Ruba Sajdeya, Ron Ison, Jennifer Hagen, **Parisa Rashidi**, Catherine C Price and Patrick Tighe. Fairness in the Prediction of Acute Postoperative Pain Using Machine Learning Models. (Submitted, *Frontiers in Digital Health*)
2. Madushani, RWMA; Vishal Patel, Tyler Loftus, Yuanfang ren, Han Jacob Li, Laura Velez, Quran Wu, Lasith Adhikari, Philip Efron, Mark Segal, Tezcan Ozrazgat Baslanti, and **Parisa Rashidi**. Early Biomarker Signatures in Surgical Sepsis. *J Surg Res*. 2022 Sep;277:372-383. doi: 10.1016/j.jss.2022.04.052. Epub 2022 May 12. PMID: 35569215.
3. Ren, Yuanfang; Tyler J. Loftus, Shounak Datta, Matthew M. ruppert, Ziyuan Guan, Shunshun Miao, Benjamin Shickel, Zheng Fang, Chris Giodano, Gilbert R. Upchurch, **Parisa Rashidi**, Tezcan Ozrazgat Baslanti, and Azra Bihorac. Performance of a Machine Learning Algorithm Using Electronic Health Record Data to Predict Postoperative Complications and Report on a Mobile Platform. *JAMA Netw Open*. 2022;5(5):e2211973. doi:10.1001/jamanet-workopen.2022.11973/  
 ☉ **Impact Factor: 2.9, 4140+ Downloads.**
4. Bandyopadhyay, Sabyasachi; Catherine Dion, David J. Libon, Catherine Price, Patrick Tighe, and **Parisa Rashidi**. "Variational autoencoder provides proof of concept that compressing CDT to extremely low-dimensional space retains its ability of distinguishing dementia." *Scientific Reports* 12, no. 1, 2022: 1-10.
5. Davoudi, Anis, Benjamin Shickel, Patrick James Tighe, Azra Bihorac, and **Parisa Rashidi**. "Potentials and Challenges of Pervasive Sensing in the Intensive Care Unit." *Front Digit*

- Health*. 2022 May 17;4:773387. doi: 10.3389/fdgth.2022.773387. PMID: 35656333; PMCID: PMC9152012.
6. Loftus Tyler, Matthew Ruppert, Tezcan Ozrazgat-Baslanti, Jeremy Balch, Phil Efron, Patrick Tighe, William Hogan, **Parisa Rashidi**, Gilbert Upchurch Jr., Azra Bihorac. Association of Postoperative Undertriage to Hospital Wards With Mortality and Morbidity. *JAMA Network Open*. 2021;4(11):e2131669. doi:10.1001/jamanetworkopen.2021.31669.  
⊗ **Impact Factor: 13.3, Citation Count: 4, 4200+ Downloads.**
  7. Mi, Xinlei; Baiming Zou, **Parisa Rashidi**, Raheleh Baharloo, Roger B. Fillingim, Margaret R. Wallace, Paul L. Crispen, Hari K. Parvataneni, Hernan A. Prieto, Chancellor F. Gray, Taigo N. Machuca, Steven J. Hughes, Gregory J.A. Murad, Elizabeth Thomas, Atif Iqbal, Patrick J. Tighe. Effects of Patient and Surgery Characteristics on Persistent Postoperative Pain: A Mediation Analysis. *The Clinical Journal of Pain*: November 2021 - Volume 37 - Issue 11 - p 803-811. doi: 10.1097/AJP.0000000000000979.  
⊗ **Impact Factor 3.4, Citation Count: 2.**
  8. Mahmoudi Kamran, Mahboobeh Rashidi, Farhad Soltani, Moshen Savaie, Ehsan Hedayati, **Parisa Rashidi**. Comparison of Intercostal Nerve Block with Ropivacaine and Ropivacaine-Dexmedetomidine for Postoperative Pain Control in Patients Undergoing Thoracotomy: A Randomized Clinical Trial. *Anesth Pain Med*. 2021;11(6):e118667. Published 2021 Nov 24. doi:10.5812/aapm.118667.  
⊗ **Impact Factor 5.5, Citation Count: 5.**
  9. Loftus, Tyler, Patrick Tighe, Tezcan Ozrazgat-Baslanti T, J Davis, Matthew Ruppert, Yuanfang Ren, Benjamin Shickel, William Hogan, J Moorman, Gilbert Upchurch Jr., **Parisa Rashidi**, Azra Bihorac. Ideal Algorithms in Health Care: Explainable, Dynamic, Precise, Autonomous, Fair, and Reproducible. *PLOS Digital Health*. January 2022;1(1):e0000006. doi: 10.1371/journal.pdig.0000006.  
⊗ **Citation Count: 3, 4000+ Downloads.**
  10. Gupta, Neha, Sunnet Kumar Gupta, Rajesh Kumar Pathak, Vanita Jain, **Parisa Rashidi**, Jasjit Suri. "Human Activity Recognition in Artificial Intelligence Framework: A Narrative Review." *Artif Intell Rev*. 2022;55(6):4755-4808. doi: 10.1007/s10462-021-10116-x. Epub 2022 Jan 18. PMID: 35068651; PMCID: PMC8763438.  
⊗ **Impact Factor 9.5, Citation Count: 4, 4000+ Downloads.**
  11. Cupka, Julie S., Haleh Hashemighouchani, Jessica Lipori, Matthew M. Ruppert, Ria Bhaskar, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "The effect of non-pharmacologic strategies on prevention or management of intensive care unit delirium: a systematic review." [version 2; peer review: 1 approved]. *F1000Research* 2021; 9:1178.
  12. Jeremy Balch, Daniel Delitto, Patrick J. Tighe, Ali Zarrinpar, Philip A. Efron, **Parisa Rashidi**, Gilbert R. Upchurch Jr, Azra Bihorac and Tyler J. Loftus. " Machine Learning Applications and Limitations in Solid Organ Transplantation." *Frontiers in Immunology*. 2021;12(3707).
  13. Giordano Chris, Brennan Meghan, Mohamed Basma, Rashidi Parisa, Modave François, Tighe Patrick. Accessing Artificial Intelligence for Clinical Decision-Making. *Frontiers in*

- Digital Health*. (3) 2021. DOI=10.3389/fdgth.2021.645232  
⊗ **Citation Count: 9, 7995+ Downloads.**
14. Shickel, Benjamin, Anis Davoudi, Tezcan Ozrazgat-Baslanti, Matthew Ruppert, Azra Bihorac, and **Parisa Rashidi**. "Deep Multi-Modal Transfer Learning for Augmented Patient Acuity Assessment in the Intelligent ICU." *Frontiers in Digital Health* 3 (2021): 11.  
⊗ **Citation Count: 6, 2730+ Downloads.**
  15. Mudumbai, Seshadri C., and **Parisa Rashidi**. "Linking Preoperative and Intraoperative Data for Risk Prediction: More Answers or Just More Data?." *JAMA Network Open* 4, no. 3 (2021): e212547-e212547.
  16. Datta, Shounak, Yanjun Li, Matthew M. Ruppert, Yuanfang Ren, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "Reinforcement learning in surgery." *Surgery* (2021).  
⊗ **Impact factor 4.3, Citation Count: 8, 33 Downloads.**
  17. Davoudi, Anis, Catherine Dion, Shawna Amini, Patrick J. Tighe, Catherine C. Price, David Libon and **Parisa Rashidi**. Classifying Non-Dementia and Alzheimer's Disease/Vascular Dementia Patients Using Kinematic, Time-Based, and Visuospatial Parameters: The Digital Clock Drawing Test. *Journal of Alzheimer's Disease*, vol. 82, no. 1, pp. 47-57, 2021. DOI: 10.3233/JAD-201129.  
⊗ **Impact Factor 4.1, Citation Count: 13.**
  18. Ruppert, Matthew M., Jessica Lipori, Sandip Patel, Elizabeth Ingersent, Julie Cupka, Tezcan Ozrazgat-Baslanti, Tyler Loftus, **Parisa Rashidi**, and Azra Bihorac. "ICU Delirium-Prediction Models: A Systematic Review." *Critical care explorations* 2, no. 12 (2020).
  19. Davoudi, Anis, Mamoun T. Mardini, David Nelson, Fahd Albinali, Sanjay Ranka, **Parisa Rashidi**, and Todd M. Manini. "The Effect of Sensor Placement and Number on Physical Activity Recognition and Energy Expenditure Estimation in Older Adults: Validation Study." *JMIR mHealth and uHealth* 9, no. 5 (2021): e23681.  
⊗ **Impact Factor 4.9, Citation Count: 9, 12 Downloads.**
  20. Mardini, Mamoun, Subhash Nerella, Matin Kheirkhahan, Sanjay Ranka, Roger Fillingim, Yujie Hu, Duane Corbett, Erta Cenko, Eric Weber, **Parisa Rashidi**, Todd Manini. "The Temporal Relationship Between Ecological Pain and Life-Space Mobility in Older Adults With Knee Osteoarthritis: A Smartwatch-Based Demonstration Study." *JMIR mHealth uHealth* 9, no. 1 (2021):e19609  
⊗ **Impact Factor 4.9, Citation Count: 8.**
  21. Baharloo, Raheleh, Jose C. Principe, Roger B. Fillingim, Margaret R. Wallace, Baiming Zou, Paul L. Crispen, Hari K. Parvataneni, Hernan A. Prieto, Tiago N. Machuca, Xinlei Mi, Steven J. Hughes, Gregory J. Murad, **Parisa Rashidi**, and Patrick J. Tighe. "Slow Dynamics of Acute Postoperative Pain Intensity Time Series Determined via Wavelet Analysis Are Associated With the Risk of Severe Postoperative Day 30 Pain." *Anesthesia & Analgesia* 132, no. 5 (2021): 1465-1474.
  22. Vasilopoulos, Terrie, Richa Wardhan, **Parisa Rashidi**, Roger B. Fillingim, Margaret R. Wallace, Paul L. Crispen, Hari K. Parvataneni, Hernan A. Prieto, Tiago N. Machuca, Steven

- J. Hughes, Gregory J. Murad, and Patrick Tighe. "Patient and procedural determinants of postoperative pain trajectories." *Anesthesiology* 134, no. 3 (2021): 421-434.  
⊗ **Impact Factor 3.6, Citation Count: 26, 2590+ Downloads.**
23. Smith, Cameron R., Raheleh Baharloo, Paul Nickerson, Margaret Wallace, Baiming Zou, Roger B. Fillingim, Paul Crispen, Hari Parvataneni, Chancellor Gray, Hernan Prieto, Tiago Machuca, Steven Hughes, Gregory Murad, **Parisa Rashidi**, and Patrick J. Tighe. "Predicting long-term postsurgical pain by examining the evolution of acute pain." *European Journal of Pain* 25, no. 3 (2021): 624-636.
24. Davoudi, Anis; Catherine Dion, erin Formanski, Brandon E. Frank, Shawna Amini, Emily F. Matusz, Vitor Wasserman, Dana Penney, Randall Davis, **Parisa Rashidi**, Patrick J. Tighe, Kenneth Heilman, Rhoda Au, David J. Libon and Cahterine Price. . 'Normative References for Graphomotor and Latency Digital Clock Drawing Metrics for Adults Age 55 and Older: Operationalizing the Production of a Normal Appearing Clock'. 1 Jan. 2021 : 59 – 70.  
⊗ **Impact Factor 4.1, Citation Count: 3.**
25. Alpert, Jordan, Todd Manini, Roberts, Megan Roberts, Naga Probhakar Kota, Tona Mendoza, Laurence Solberg, and **Parisa Rashidi**. "Secondary Care Provider Attitudes Towards Patient Generated Health Data from Smartwatches". *Nature (NPJ) Digital Medicine*, 3, no. 27 (2020): 1-7.  
⊗ **Citation Count: 15, 2040+ Downloads.**
26. **Rashidi, Parisa**, and Azra Bihorac. "Artificial Intelligence Approaches to Improve Kidney Care." *Nature Reviews Nephrology* 16, no. 2 (2020): 71-72.  
⊗ **Impact Factor 42.4, Citation Count: 28, 1760+ Downloads.**
27. Demrozi, Florenc, Graziano Pravadelli, Azra Bihorac, and **Parisa Rashidi**. "Human Activity Recognition using Inertial, Physiological and Environmental Sensors: A Comprehensive Survey". *IEEE Access*, 8 (2020): 210816-210836.  
⊗ **Impact Factor 3.4, Citation Count: 102, 3170+ Downloads, 1 Patent Citation.**
28. Loftus, Tyler J., Patrick J. Tighe, Amanda C. Filiberto, Philip A. Efron, Scott C. Brakenridge, Alicia M. Mohr, **Parisa Rashidi**, Gilbert R. Upchurch, and Azra Bihorac. "Artificial Intelligence and Surgical Decision-Making." *JAMA Surgery*, 155, no. 2 (2020): 148-158.  
⊗ **Impact Factor 16.6, Citation Count: 125, Downloads 8570.**
29. Tighe, Patrick, Benjamin Shickel, Sannapaneni, Bharadwaj, Charles Doyle, Michael Kent, and **Parisa Rashidi**. "42 Million Ways to Describe Pain: Topic Modeling of 200,000 PubMed Pain-Related Abstracts Using Natural Language Processing and Deep Learning Based Text Generation." *Pain Medicine*, 10, no. 10, (2020): 1-28.
30. Loftus, Tyler John, Gilbert R. Upchurch, Daniel Delitto, **Parisa Rashidi**, and Azra Bihorac. "Mysteries, Epistemological Modesty, and Artificial Intelligence in Surgery." *Frontiers in Artificial Intelligence*, 2 (2020): 32.
31. Loftus, Tyler J., Amanda C. Filiberto, Jeremy Balch, Alexander L. Ayzengart, Patrick J. Tighe, **Parisa Rashidi**, Azra Bihorac, and Gilbert R. Upchurch Jr. "Intelligent, Autonomous Machines in Surgery." *Journal of Surgical Research* 253 (2020): 92-99.  
⊗ **Impact Factor 2.4, Citation Count: 9.**

32. Loftus, Tyler J., Amanda C. Filiberto, Yanjun Li, Jeremy Balch, Allyson C. Cook, Patrick J. Tighe, Philip A. Efron, Gilbert R. Upchurch, **Parisa Rashidi**, Xiaolin Li, Azra Bihorac. "Decision analysis and reinforcement learning in surgical decision-making." *Surgery* 168, no. 2 (2020): 253-266.  
⊗ **Impact Factor 4.3, Citation Count: 14, 66 Downloads.**
33. Bandyopadhyay, Sabyasachi, Nicholas Lysak, Lasith Adhikari, Laura M. Velez, Larysa Sautina, Rajesh Mohandas, Maria-Cecilia Lopez Ungaro, Ricardo, Peng, Ying-Chih, Kadri, Ferdous, Efron, Philip, Brakenridge, Scott, Moldawer, Lyle, Moore, Frederick, Baker, Henry V., Segal, Mark S., Ozrazgat-Baslanti, Tezcan, **Rashidi, Parisa**, and Bihorac, Azra. "Discovery and Validation of Urinary Molecular Signature of Early Sepsis." *Critical Care Explorations* 2, no. 10 (2020): e0195.  
⊗ **Citation Count: 5.**
34. Alpert, Jordan, Naga S Prabhakar Kota, Sanjay Ranka, Tonatiuh V Mendoza, Laurence Solberg, **Parisa Rashidi**, and Todd Manini. "A Simulated Graphical Interface for Integrating Patient-Generated Health Data from Smartwatches with Electronic Health Records: Usability Study". *JMIR Human Factors* 7, no. 4 (2020): e19769.
35. Datta, Shounak, Tyler J. Loftus, Matthew M. Ruppert, Chris Giordano, Gilbert R. Upchurch Jr, **Parisa Rashidi**, Tezcan Ozrazgat-Baslanti, and Azra Bihorac. "Added Value of Intraoperative Data for Predicting Postoperative Complications: The MySurgeryRisk PostOp Extension." *Journal of Surgical Research* 254 (2020): 350-363.  
⊗ **Impact Factor 2.4, Citation Count: 18, 45 Downloads.**
36. Ong, Triton L., Matthew M. Ruppert, Maisha Akbar, **Parisa Rashidi**, Tezcan Ozrazgat-Baslanti, Azra Bihorac, and Marko Suvajdzic. "Improving the Intensive Care Patient Experience with Virtual Reality—A Feasibility Study." *Critical Care Explorations* 2, no. 6 (2020): e0122.  
⊗ **Citation Count: 15.**
37. Loftus, Tyler J., Patrick J. Tighe, Amanda C. Filiberto, Jeremy Balch, Gilbert R. Upchurch Jr, **Parisa Rashidi**, and Azra Bihorac. "Opportunities for machine learning to improve surgical ward safety." *The American Journal of Surgery* 220, no. 4 (2020): 905-913.  
⊗ **Impact Factor 3.1, Citation Count: 13, 75 Downloads.**
38. Cameron Smith, Raheleh Baharloo, Paul Nickerson, Margaret Wallace, Baiming Zou, Roger Fillingim, Paul Crispen, Hari Parvataneni, Chancellor Gray, Hernan Prieto, Tiago Machuca, Steven Hughes, Gregory Murad, **Parisa Rashidi**, Patrick Tighe. "Predicting long-term postsurgical pain by examining the evolution of acute pain." *European Journal of Pain* (2020).
39. Anton, Stephen D., Yenisel Cruz-Almeida, Arashdeep Singh, Jordan Alpert, Benjamin Ben-sadon, Melanie Cabrera, David J. Clark, Natalie Ebner, Karyn A. Esser, Roger B. Fillingim, Soamy Montesino Goicolea, Sung Min Han, Henrique Kallas, Alisa Johnson, Christiaan Leeuwenburgh, Andrew C. Liu, Todd M. Manini, Michael Marsiske, Frederick Moore, Peihua Qiu, Robert T. Mankowski, Mamoun Mardini, Christian McLaren, Sanjay Ranka, **Parisa Rashidi**, Sunil Saini, Kimberly T. Sibille, Shinichi Someya, Stephanie Wohlgemuth, Carolyn Tucker, Rui Xiao, and Marco Pahor. "Innovations in Geroscience to enhance mo-

- bility in older adults." *Experimental Gerontology* (2020): 111123.
40. Davoudi, Anis, Todd M. Manini, Azra Bihorac, and **Parisa Rashidi**. "Role of Wearable Accelerometer Devices in Delirium Studies: A Systematic Review." *Critical Care Explorations*, 1, no. 9 (2019): e0027.
  41. Tighe, Patrick, David E. Edwards, and **Parisa Rashidi**. "Primer on Machine Learning: Utilization of Large Data Set Analyses to Individualize Pain Management Current Opinion in Anesthesiology." *Current Opinion in Anesthesiology*, 1, no. 9 (2019): e0027.
    - ⊗ **Impact Factor 2.7, Citation Count: 10.**
  42. Lysak, Nicholas., Haleh Hashemighouchani, Anis Davoudi, Negin Pourafshar, Tyler J. Loftus, Matthew Ruppert, Phil A. Efron, **Parisa Rashidi**, Azra Bihorac, and Tezcan Ozrazgat-Baslanti. "Cardiovascular death and progression to end-stage renal disease after major surgery in elderly patients." *British Journal of Surgery Open*, 4, no. 1 (2020): 145-156.
  43. Davoudi, Anis, Kumar Rohit Malhotra, Benjamin Shickel, Scott Siegel, Seth Williams, Matthew Ruppert, Emel Bihorac, Tezcan Ozrazgat-Baslanti, Patrick J. Tighe, Azra Bihorac, and **Parisa Rashidi**. "Intelligent ICU for Autonomous Patient Monitoring Using Pervasive Sensing and Deep Learning." *Scientific Reports* 9, no. 1 (2019): 8020-8033.
    - ⊗ **#2 in Medical Informatics by Thomson Reuters. Impact Factor 4.9, Citation Count: 69, 15,000+ Downloads.**
  44. Shickel, Benjamin, Tyler J. Loftus, Lasith Adhikari, Tezcan Ozrazgat-Baslanti, Azra Bihorac, and **Parisa Rashidi**. "DeepSOFA: A Continuous Acuity Score for Critically Ill Patients using Clinically Interpretable Deep Learning." *Scientific Reports* 9, no. 1 (2019): 1879-1891.
    - ⊗ **Top 5% of all research outputs scored by Altmetric. Featured in CBS, Fox, UF Health News, NPR Local News. Impact Factor 4.9, Citation Count: 82, 6690+ Downloads.**
  45. Manini, Todd Matthew, Tonatiuh Mendoza, Manoj Battula, Anis Davoudi, Matin Kheirkhahan, Mary Ellen Young, Eric Weber, Roger Benton Fillingim, and **Parisa Rashidi**. "Perception of Older Adults Toward Smartwatch Technology for Assessing Pain and Related Patient-Reported Outcomes: Pilot Study." *JMIR mHealth and uHealth* 7, no. 3 (2019): e10044.
    - ⊗ **#2 in Medical Informatics by Thomson Reuters. Impact Factor 4.9, Citation Count: 39, 3745+ Downloads.**
  46. Davoudi, Anis, Amal Asiri Wanigatunga, Matin Kheirkhahan, Duane Benjamin Corbett, Tonatiuh Mendoza, Manoj Battula, Sanjay Ranka, Roger Benton Fillingim, Todd Matthew Manini, and **Parisa Rashidi**. "Accuracy of Samsung Gear S Smartwatch for Activity Recognition: Validation Study." *JMIR mHealth and uHealth* 7, no. 2 (2019): e11270.
    - ⊗ **#2 in Medical Informatics by Thomson Reuters. Impact Factor 4.9, Citation Count: 15, 3500+ Downloads.**
  47. Adhikari, Lasith, Tezcan Ozrazgat-Baslanti, Matthew Ruppert, RWMA Madushani, Srajan Paliwal, Haleh Hashemighouchani, Feng Zheng, Ming Tao, Juliano M Lopes, Xiaolin Li, **Parisa Rashidi**, Azra Bihorac. "Improved predictive models for acute kidney injury with IDEA: Intraoperative Data Embedded Analytics." *PLOS One* 14, no. 4 (2019): e0214904.
    - ⊗ **Impact Factor: 3.7, Citation Count: 42, 2840+ Downloads.**
  48. Ebadi, Ashkan, Patrick J. Tighe, Lei Zhang, and **Parisa Rashidi**. "A quest for the structure



- of intra- and postoperative surgical team networks: does the small-world property evolve over time?." *Social Network Analysis and Mining* 9, no. 1 (2019): 7.
49. Mollalo, Abolfazl, Liang Mao, **Parisa Rashidi**, and Gregory E. Glass. "A GIS-Based Artificial Neural Network Model for Spatial Distribution of Tuberculosis across the Continental United States." *International Journal of Environmental Research and Public Health* 16, no. 1 (2019): 157.
    - ⊗ **Impact Factor 3.2, Citation Count: 63, 6400+ Downloads.**
  50. Kheirkhahan, Matin, Sanjay Nair, Anis Davoudi, **Parisa Rashidi**, Amal A. Wanigatunga, Duane B. Corbett, Tonatiuh Mendoza, Todd M. Manini, and Sanjay Ranka. "A Smartwatch-Based Framework for Real-Time and Online Assessment and Mobility Monitoring." *Journal of Biomedical Informatics* 89 (2019): 29-40.
    - ⊗ **Impact Factor 8.0, Citation Count: 57, 200+ Downloads.**
  51. Shickel, Benjamin, Patrick James Tighe, Azra Bihorac, and **Parisa Rashidi**. "Deep EHR: A Survey of Recent Advances in Deep Learning Techniques for Electronic Health Record (EHR) Analysis." *IEEE Journal of Biomedical and Health Informatics (IEEE JBHI)* 22, no. 5 (2018): 1589-1604.
    - ⊗ **Among Top IEEE JBHI Articles of All Time. Impact Factor 7.2, 12,700+ Downloads, Citation Count: 830+, In the top 5% of all research outputs scored by Altmetric.**
  52. Mollalo, Abolfazl, Ali Sadeghian, Glenn D. Israel, **Parisa Rashidi**, Aioub Sofizadeh, and Gregory E. Glass. "Machine Learning Approaches In GIS-Based Ecological Modeling of The Sand Fly Phlebotomus Papatasi, A Vector of Zoonotic Cutaneous Leishmaniasis In Golestan Province, Iran." *Acta Tropica* 188 (2018): 187-194.
    - ⊗ **Impact Factor 3.2, Citation Count: 51.**
  53. Bihorac, Azra, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Amir Motaei, Mohcine Madkour, Panagote Pardalos, Gloria Lipori, William Hogan, Philip Efron, Frederick Moore, Lyle Moldawer, Daisy Wang, Charles Hobson, **Parisa Rashidi**, Xiaolin Li, Petar Momcilovic. "MySurgeryRisk: Development and Validation of a Machine-Learning Risk Algorithm for Major Complications and Death After Surgery." *Annals of Surgery* 269, no. 4 (2019): 652-662.
    - ⊗ **Impact Factor 13.7, Citation Count: 152.**
  54. Nickerson, Paul V., Raheleh Baharloo, Amal A. Wanigatunga, Todd M. Manini, Patrick J. Tighe, and **Parisa Rashidi**. "Transition Icons for Time-Series Visualization and Exploratory Analysis." *IEEE Journal of Biomedical and Health Informatics (IEEE JBHI)* 22, no. 2 (2018): 623-630.
    - ⊗ **Featured cover article, March 2018.**
  55. Suvajdzic, Marko, Azra Bihorac, **Parisa Rashidi**, Triton Ong, and Joel Applebaum. "Virtual reality and human consciousness: The Use of Immersive Environments in Delirium Therapy." *Technoetic Arts* 16, no. 1 (2018): 75-83.
  56. Ebadi, Ashkan, Josué L. Dalboni da Rocha, Dushyanth B. Nagaraju, Fernanda Tovar-Moll, Ivanei Bramati, Gabriel Coutinho, Ranganatha Sitaram, and **Parisa Rashidi**. "Ensemble Classification of Alzheimer's Disease and Mild Cognitive Impairment Based on Complex Graph Measures from Diffusion Tensor Images." *Frontiers in Neuroscience* 11 (2017): 56.
    - ⊗ **Impact Factor: 5.1, Citation Count: 45, 8000+ Downloads.**

57. Ebadi, Ashkan, Patrick J. Tighe, Lei Zhang, and **Parisa Rashidi**. "DisTeam: A Decision Support Tool for Surgical Team Selection." *Artificial Intelligence in Medicine* 76 (2017): 16-26.  
 ⊗ **Selected as Best article by the International Medical Informatics Association (IMIA) in the 'Clinical Decision Support' Category. Impact factor 7.0, Citation Count: 14.**
58. Ozrazgat-Baslanti, Tezcan, Paulette Blanc, Paul Thottakkara, Matthew Ruppert, **Parisa Rashidi**, Petar Momcilovic, Charles Hobson, Philip A. Efron, Frederick A. Moore, and Azra Bihorac. "Preoperative Assessment of The Risk for Multiple Complications After Surgery." *Surgery* 160, no. 2 (2016): 463-472.  
 ⊗ **Impact Factor 4.3. Citation Count: 15.**
59. Tighe, Patrick J., Paul Nickerson, Roger B. Fillingim, and **Parisa Rashidi**. "Characterizations of Temporal Postoperative Pain Signatures with Symbolic Aggregate Approximations." *The Clinical Journal of Pain* 33, no. 1 (2017): 1.
60. Thottakkara, Paul, Tezcan Ozrazgat-Baslanti, Bradley B. Hupf, **Parisa Rashidi**, Panos Pardalos, Petar Momcilovic, and Azra Bihorac. "Application of Machine Learning Techniques to High-Dimensional Clinical Data to Forecast Postoperative Complications." *PLOS One* 11, no. 5 (2016): e0155705.  
 ⊗ **Among the top 10% most cited PLOS ONE authors of 2016. Impact factor 3.7. Citation Count: 125+ , Downloads 9160+.**
61. Tighe, Patrick J., Matthew Bzdega, Roger B. Fillingim, **Parisa Rashidi**, and Haldun Aytug. "Markov Chain Evaluation of Acute Postoperative Pain Transition States." *Pain* 157, no. 3 (2016): 717.
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## Book Chapters

1. Shickel, Benjamin, Jeremy Balch, John R. Aggas, Tyler J. Loftus, Christian N. Kotanen, **Parisa Rashidi**, and Anthony Guiseppi-Elie. "Scoring for Hemorrhage Severity in Traumatic Injury" In *Biomarkers in Disease: Methods, Discoveries and Applications: Trauma, Injury and Critical Care*. Series Editors: Vinood B. Patel and Victor R. Preedy. Springer Nature Book Series, Springer Nature, New York Electronic ISSN: 2542-3665; Print ISSN: 2542-3657.
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3. **Rashidi, Parisa**, "Stream sequence mining for human activity discovery". In *Plan, Activity, and Intent Recognition*, edited by Gita Sukthankar, Christopher Geib, Hung Hai Bui, David Pynadath, and Robert Goldman, 123-148. Burlington, MA: Morgan Kaufmann, 2014.

4. **Rashidi, Parisa**, Narayanan C. Krishnan, and Diane J. Cook, "Discovering and Tracking Patterns of Interest in Security Sensor Streams". In *Securing Cyber-Physical Critical Infrastructure*, edited by Sajal Das, Krishna Kant, and Nan Zhang, 481-504. Burlington, MA: Morgan Kaufmann, 2012.
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1. Roy, Nirmalya, **Parisa Rashidi**, Lawrence Holder, and Liming Chen. "Special Issue on Data Mining in Pervasive Environments". *Pervasive and Mobile Computing*, 15, (2014): 151-152.
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### Conference Abstracts

1. Jordan Alpert, Bhakti Sharma, **Parisa Rashidi**, Sanjay Ranka, Mamoun Mardini, Yashaswi Karnati, Ruben Zapata, Roger Fillingim, Thomas Gill, Michael Marsiske, Todd Manini. "Usability testing of smartwatches on older individuals to identify barriers for long-term implementation". *14th Annual Conference on the Science of Dissemination and Implementation in Health*. Virtual, December 2021.

2. Anis Davoudi, Patrick Tighe, Azra Bihorac, and **Parisa Rashidi**. "Posture Recognition in the Intensive Care Unit Using Wearable Sensors". *Biomedical Engineering Society (BMES) Annual Meeting*. Virtual, October 2021.
3. Sabyasachi Bandyopadhyay, Catherine Dion, Patrick Tighe, David J. Libon, Catherine Price, and **Parisa Rashidi**. "Semi-supervised Deep Learning On Clock Drawings Can Identify Dementia". *Biomedical Engineering Society (BMES) Annual Meeting*. Virtual, October 2021.
4. Jack Wittmayer, Sabyasachi Bandyopadhyay, Catherine Price, and **Parisa Rashidi**. "Uncovering intrinsic variations in clock drawings using deep learning". *Biomedical Engineering Society (BMES) Annual Meeting*. Virtual, October 2021.
5. Leeor Hershkovich, Sabyasachi Bandyopadhyay, Catherine Price, Patrick Tighe, David Libon, and **Parisa Rashidi**. "Developing a Speech Processing Toolbox for Measuring Post-Operative Cognitive Dysfunction". *Biomedical Engineering Society (BMES) Annual Meeting*. Virtual, October 2021.
6. Raheleh Baharloo, Patrick Tighe, and **Parisa Rashidi**. "Long-Term Pain Characterization Through Intra-Operative Vital Signs". The 37th Annual Meeting of the American Academy of Pain Medicine (AAPM). Virtual, 2021. [Best Poster Award]
7. Shickel, Benjamin, Anis Davoudi, Tezcan Ozrazgat-Baslanti, Matthew Ruppert, Azra Bihorac, **Parisa Rashidi**. "Deep Multi-Modal Transfer Learning for Augmented Outcome Prediction in The Intelligent ICU." *Biomedical Engineering Society (BMES) Annual Meeting*. Virtual, October 2020.
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11. Loftus, Tyler, Shounak Datta, Tezcan Ozrazgat-Baslanti, Matthew M Ruppert, Scott C Brakenridge, Alicia M Mohr, Philip Efron, Gilbert R. Upchurch Jr., **Parisa Rashidi**, and Azra Bihorac. "Added Value of Intraoperative Data for Predicting Postoperative Complications." *15<sup>th</sup> Annual Academic Surgical Congress*, Orlando, FL, February 2020.
12. Davoudi, Anis, Kumar Rohit Malhotra, Benjamin Shickel, Scott Siegel, Seth Williams, Matthew Ruppert, Emel Bihorac, Tezcan Ozrazgat-Baslanti, Patrick J. Tighe, Azra Bihorac, and **Parisa**

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13. Shickel, Benjamin, Tyler J. Loftus, Lasith Adhikari, Tezcan Ozrazgat-Baslanti, Azra Bihorac, and **Parisa Rashidi.** “DeepSOFA: Clinical Deep Learning for Real-Time Acuity Assessments of Critically Ill ICU Patients.” *Frontiers of AI-Assisted Care Scientific Symposium*. Stanford, CA, September 2019.
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19. York, Jacob, Anis Davoudi, Azra Bihorac and **Parisa Rashidi.** “Comparing Machine Learning Models for Diagnosis of Patient Delirium in The ICU Using Actigraphy Data.” *Biomedical Engineering Society (BMES) Annual Meeting*. Atlanta, GA, USA, October 2018.
20. Manini, Todd M., Anis Davoudi, Matin Kheirkhahan, Duane Corbetta, Roger Fillingim, Sanjay Ranka, and **Parisa Rashidi.** “Connections between daily activity patterns and ecological momentary assessments of pain in older adults who report knee pain.” *Gerontological Society of America (GSA)*, Boston, MA, US, November 2018.
21. Manini, Todd M., Anis Davoudi, Matin Kheirkhahan, Duane Corbetta, Roger Fillingim, Sanjay Ranka, and **Parisa Rashidi.** “Digging Deeper: Insights into Physical and Cognitive Health Using Novel Methods for Accelerometry and Function.” *Gerontological Society of America (GSA)*, Boston, MA, US, November 2018.
22. Corbett, Duane, Anis Davoudi, Matin Kheirkhahan, Roger Fillingim, Sanjay Ranka, **Parisa Rashidi,** and Todd Manini. “Smartwatch-Based Ecological Momentary Assessment versus Questionnaire-Based Recall of Knee Pain among Older Adults.” *World Congress on Pain*, Boston, MA, US, September 2018.

23. Davoudi, Anis, Duane B. Corbett, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Scott C. Brakenridge, Todd M. Manini, and **Parisa Rashidi**. "Sepsis Recovery Subtyping using Actigraphy Methods." *International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Honolulu, HI, US, July 2018.
24. Shickel, Benjamin, Patrick Tighe, and **Parisa Rashidi**. "What Would PubMed Write about Pain? Automated PubMed Abstract Text Generation using Seq2Seq-style Deep Learning Techniques Trained on 200k PubMed Pain Research Abstracts." *American Academy of Pain Medicine Annual Meeting*, Vancouver, BC, Canada, April 2018.
25. Baharloo, Raheleh, Patrick Tighe, and **Parisa Rashidi**. "Postoperative Acute Pain as a Dynamical System: Lessons from Infinite Impulse Response Filter Modeling." *American Academy of Pain Medicine Annual Meeting*. Vancouver, BC, Canada, April 2018.
26. Raheleh Baharloo, Patrick Tighe, and **Parisa Rashidi**. *Making Waves for Postoperative Pain: Wavelet-Based Clustering of Acute Postoperative Pain Intensity and Modeling to Forecast Average Pain Scores at Postoperative Day 30*. American Academy of Pain Medicine's 34th Annual Meeting. Vancouver, BC, Canada, April 2018.
27. Benjamin Shickel, Tyler Loftus, Tezcan Ozrazgat Baslanti, Azra Bihorac, and **Parisa Rashidi**. *Increasing SOFA Score Granularity with Deep Learning*. Society of Critical Care Medicine Congress (SCCM), San Antonio, TX, US, February 2018.
28. Tighe, Patrick J, Zach Quicksall, Shruthi Gopalswamy, and **Parisa Rashidi**. "Moving Beyond Dose and Demand Counts: Development of a Novel PCA Analytical Software Toolbox." *The International Anesthesia Research Society (IARS) Annual Meeting*. Washington, DC., US, May 2017.
29. Simpson, David, Andrew Jin, Mizuki Miyatake, **Parisa Rashidi**, and Patrick Tighe. "What Makes It This, and Not That? Deep Learning Neural Networks for Characterization of Ultrasound-Guided Peripheral Nerve Blocks: Elementary Hyper-parameter Explorations of Pilot Anatomical Windows." *Annual Regional Anesthesiology and Acute Pain Medicine Meeting (ASRA)*, San Francisco, CA, US, April 2017.
30. Siegel, Scott, Agyeiwaa Agyei, Anis Davoudi, Patrick Tighe, and **Parisa Rashidi**. "Intelligent Surgical Instrument Recognition System." *American Medical Informatics Association Annual Symposium (AMIA)*, Washington, DC, US, November 2017.
31. Adams, Kaitlyn, Kumar Malhorta, Scott Siegel, Anis Davoudi, Azra Bihorac, and **Parisa Rashidi**. "Pervasive Monitoring of Patients Activity in The Intensive Care Unit." *Biomedical Engineering Society Annual Meeting (BMES)*, Phoenix, AZ, US, October 2017.
32. Ebadi, Ashkan, Paul Thottakkara, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "Reclassification Improvement for Acute Kidney Injury Using Intraoperative Data." *Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Orlando, FL, US, August 2016.
33. Shickel, Benjamin, **Parisa Rashidi**, Haldun Aytug, and Patrick Tighe. "Markov Decision Processes for Postoperative Acute Pain Decision Support." *Annual International Conference of*

*the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, FL, US, August 2016.*

34. Davoudi, Anis, Jacob Rubin, Matthew Ruppert, Patrick Tighe, Azra Bihorac, and **Parisa Rashidi**. “Detection of Delirium using Kinect Sensor and Accelerometer Data.” *Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Orlando, FL, US, August 2016.
35. Davoudi, Anis, Sanjay Nair, Matin Kheirkhahan, Sanjay Ranka, Todd M. Manini, and **Parisa Rashidi**. “Validation of Accelerometer Data from Samsung Gear S Smartwatch.” *Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Orlando, FL, US, August 2016.
36. Pourafshar, Negiin, Tezcan Ozrazgat-Baslanti, Anis Davoudi, **Parisa Rashidi**, Mark Segal, and Azra Bihorac. “Cardiovascular Mortality after Major Surgery in Elderly.” *American Society of Nephrology Meeting*, Chicago, IL, US, November 2016.
37. Shickel, Benjamin, Matthew Bzdega, Roger Fillingim, **Parisa Rashidi**, Haldun Aytug, and Patrick Tighe. “Measuring Policy Sensitivity under Uncertain Conditions and Debatable Outcomes.... Painful MDP’s for Acute Pain Decision Support?” *International Annual Conference on Production and Operations Management Society (POMS)*, Orlando, FL, US, May 2016. [Invited Talk]
38. Shickel, Benjamin, Gokul Maddali, and **Parisa Rashidi**. “Extracting Type Relevancy of Conversational Entities for Building a Communication Assistant Tool.” *International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, Hollywood, FL, US, May 2015.
39. Shickel, Benjamin and **Parisa Rashidi**. “Time-Sensitive Online Active Learning for Multiple-Oracle Data Stream Classification.” *International Florida Artificial Intelligence Research Society Conference (FLAIRS)*, Hollywood, FL, US, May 2015.
40. Nagaraju, Dushyanth Bookanakere, Josue Luiz Dalboni da Rocha, Ranganatha Sitaram, and **Parisa Rashidi**. “Classifying Alzheimer’s disease Based on Complex Graph Measures and Machine Learning Techniques.” *Real-time Functional Imaging and Neurofeedback Conference (rtFIN)*, Gainesville, FL, US, February 2015.
41. **Parisa Rashidi**. “Vision Paper: Lifelong Monitoring and Intervention.” *National Workshop on Computing Challenges in Future Mobile Health (mHealth) Systems and Applications*, Washington, D.C., US, October 2014.
42. Tighe, Patrick, Paul Nickerson, Roger Fillingim, and **Parisa Rashidi**. “Preliminary Definitions of TEMPoral POstoperative pain Signatures via Symbolic Aggregate approximation.” *National Institute of Health (NIH) Forum on Pain Research*, Washington, D.C., US, May 2014.

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### **Internal Abstracts & Posters**

1. Davoudi, Anis, Duane Corbett, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Scott Brakenridge, Todd Manini, and **Parisa Rashidi**. “Activity and Circadian Rhythm of Sepsis Patients in the Intensive

Care Unit.” *Celebration of Research, University of Florida, Gainesville, FL, US, 2018.*

2. Bandyopadhyay, Sabyasachi, Azra Bihorac, and **Parisa Rashidi**. “Machine Learning on Urinary Gene Expression to predict Sepsis in Patients.” *Pruitt Research Day Celebration, University of Florida, Gainesville, FL, US, November 2017.*
3. Shickel, Benjamin, Azra Bihorac, and **Parisa Rashidi**. “Deep SOFA: Development and Validation of a Novel Acuity Score Framework Using Deep Learning.” *Pruitt Research Day Celebration, University of Florida, Gainesville, FL, US, November 2017.*
4. Davoudi, Anis, Azra Bihorac, and **Parisa Rashidi**. “Intelligent ICU for Autonomous Patient Assessment.” *Pruitt Research Day Celebration, University of Florida, Gainesville, FL, US, November 2017.*
5. Davoudi, Anis, Matin Kheirkhahan, Sanjay Nair, Sanjay Ranka, Todd Manini, and **Parisa Rashidi**. “Validation of Samsung Gear S Smartwatch in Actigraphy and Energy Expenditure Estimation.” *College of Medicine Celebration of Research, University of Florida, Gainesville, FL, US, 2017.*
6. Liu, Weier, Ashkan Ebadi, Lei Zhang, **Parisa Rashidi**, and Patrick Tighe. “Social Network Analysis of Intraoperative Teams and Perioperative Outcomes.” *College of Medicine Celebration of Research, University of Florida, Gainesville, FL, US, 2017.*
7. Simpson, David, Andrew Jin, Mizuki Miyatake, **Parisa Rashidi**, and Patrick Tighe. “Convolutional Neural Network Approaches to Preliminary Classification of Ultrasound-Guided Regional Anesthetic Target Regions.” *College of Medicine Celebration of Research, University of Florida, Gainesville, FL, US, 2017.*
8. Khorram, Tina, Paul Thottakkara, Ashkan Ebadi, Tezcan Ozrazgat-Baslanti, Anis Davoudi, **Parisa Rashidi**, and Azra Bihorac. “Application of Machine Learning Techniques to High-Dimensional Clinical Data to Predict Risk for Postoperative Complications.” *College of Medicine Celebration of Research, University of Florida, Gainesville, FL, US, 2016.*
9. Ebadi, Ashkan, Anis Davoudi, Paul Thottakkara, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. “GATOR Kidney Risk Score.” *College of Medicine Celebration of Research, University of Florida, Gainesville, FL, US, 2016.*
10. Manini, Todd, **Parisa Rashidi**, Sanjay Nair, and Sanjay Ranka. “Real-Time Online Activity and Mobility Monitoring (ROAMM) Through Wearable Technology.” *Annual Pepper Center Conference, University of Florida, Gainesville, FL, US, 2015.*
11. Nickerson, Paul, Ben Shickel, Patrick Tighe, and **Parisa Rashidi**. “Deep Learning for Post-Operative Pain Management.” *Pruitt Research Day Celebration, University of Florida, Gainesville, FL, US, 2015.*
12. Shickel, Ben, and **Parisa Rashidi**. “Automatic Identification and Classification of Cognitive Distortions in Text.” *Pruitt Research Day Celebration, University of Florida, Gainesville, FL, US, 2015.*

13. Kheirkhahan, Matin, **Parisa Rashidi**, Sanjay Ranka, and Todd M. Manini. "Finding Activity Patterns among Participants with Different Mobility Characteristic using Bag-of-Words Approach." *Spotlight on Aging, University of Florida*, Gainesville, FL, US, 2015.
14. Davoudi, Anis, Matin Kheirkhahan, Sanjay Ranka, Todd M. Manini, and **Parisa Rashidi**. "Validation of Accelerometer Data from Samsung Gear S Smart Watch." *Spotlight on Aging, University of Florida*, Gainesville, FL, US, 2015.
15. Wanigatunga, Amal Asiri, Paul Nickerson, Todd M. Manini, and **Parisa Rashidi**. "Examining Symbolic Aggregate approxImation (SAX) Adaptive Accelerometry Cut-Points Among US Older Adults." *Spotlight on Aging, University of Florida*, Gainesville, FL, US, 2015.
16. Kheirkhahan, Matin, **Parisa Rashidi**, Sanjay Ranka, and Todd M. Manini. "Analysis of Mobility and Cognition Function in Older Adults from Actigraphy Data." *Aging Research Day, University of Florida*, Gainesville, FL, US, 2014.
17. Bhaskaran, Jagadeesh Radhakrishnan, Ishani Parikh, Matin Kheirkhahan, Sanjay Ranka, Adam Woods, Todd M. Manini, and **Parisa Rashidi**. "Identifying Older Adult Population Segments In Terms Of Mobility And Cognitive Function Using Hierarchical Clustering." *Pruitt Research Day Celebration, University of Florida*, Gainesville, FL, US, 2014.
18. Nickerson, Paul, Patrick Tighe, and **Parisa Rashidi**. "Mining Motifs in Vital Sign Time Series." BME Pruitt Research Day, *University of Florida*, Gainesville, FL, US, 2014. [**Honorable Mention Poster Award**]
19. Shickel, Benjamin, Gokul Maddali and **Parisa Rashidi**. "Extracting Type Relevancy of Conversational Entities for Building a Communication Assistant Tool." *Pruitt Research Day Celebration, University of Florida*, Gainesville, FL, US, 2014.

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## PATENTS

- Systems and Methods for Providing an Acuity Score for Critically Ill or Injured Patients. Azra Bihorac, Tyler J. Loftus, Tezcan Ozrazgat Baslanti, Parisa Rashidi, Benjamin P. Shickel. Pending Appl. No. 62/809,159, filed February 22, 2019 (*Pending*). [**The first real-time and continuous version of the commonly used Sequential Organ Failure Assessment (SOFA) score in the Intensive Care Unit (ICU).**]
- Rashidi, Parisa, Azra Bihorac, and Patrick J. Tighe. "Method and Apparatus for Pervasive Patient Monitoring." U.S. Patent Application 16/388,351 filed October 24, 2019. **The first autonomous visual assessment system for monitoring critically ill patients in the Intensive Care Unit (ICU).**
- Bihorac, Azra, Xiaolin Li, Parisa Rashidi, Panagote Pardalos, Tezcan Ozrazgat-baslanti, Wiliam Hogan, Daisy Zhe Wang, Petar Momcilovic, and Gloria Lipori. "Method and Apparatus for Prediction of Complications after Surgery." U.S. Patent Application 16/616,534 filed May 21, 2020. **The first real-time system for predicting complications after surgery.**



- Cook, Diane J., and Parisa Rashidi. "Systems and methods for adaptive smart environment automation." U.S. Patent Number. 8,880,378. 4, November 2014. **First adaptive smart home system utilizing machine learning techniques to adapt to residents, cited 69 times.**

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### GRANTS & AWARDS

<b>AWARDED, SUMMARY</b>	2013-2022
Total Number:	23
Faculty Share:	\$5.55 M [excluding \$3M expected]
Total Amount:	\$16.50M [excluding +\$3M expected]

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#### --- Federal Grants ---

2022-2024      \$228,750 (Rashidi)      National Institute of Health (**NIH**)  
**NIA R21:** ROAMM-EHR: Pilot Trial of a Real-Time Symptom Surveillance System for Post-Discharge Surgical Patients  
 The proposed research is relevant to public health because it can result in enhanced patient care workflow and early intervention, ultimately improving patient outcomes and decreasing healthcare costs.  
 Rashidi (MPI, Rashidi: Contact PI)      Role: Contact PI

2021-2026      \$2.87M (Rashidi)      National Institute of Health (**NIH**)  
**NINDS R01:** ADAPT: Autonomous Delirium Monitoring and Adaptive Prevention  
 The overall objective of this application is to develop ADAPT, the Autonomous Delirium Monitoring and Adaptive Prevention system using novel pervasive sensing and deep learning techniques.  
 Rashidi (MPI, Rashidi: Contact PI)      Role: Contact PI

2021-2024      \$2.42M (Rashidi)      National Institute of Health (**NIH**)  
**NIBIB R01:** Intelligent Intensive Care Unit (I2CU): Pervasive Sensing and Artificial Intelligence for Augmented Clinical Decision-making  
 The overall objective of this application is to develop the novel tools for sensing, quantifying, and communicating any patient's condition in an autonomous, precise, and interpretable manner.  
 Rashidi (MPI, Rashidi: Contact PI)      Role: Contact PI

2021-2022      \$309,478(Tighe)      National Institute of Health (**NIH**)  
**NIA K07:** Perioperative Cognitive Anesthesia Network Extension for Socially Vulnerable Older Adults  
 The overall objective of this application is to develop machine learning models for predicting perioperative cognitive outcomes in socially vulnerable older adults.  
 Rashidi (Co-I), Tighe (PI)      Role: Co-I

2019-2022      \$576,801 (Rashidi: \$576,801)      National Institute of Health (**NIH**)  
**NIBIB R21. TrailBlazer:** Autonomous Pain Recognition in Non-Verbal and Critically Ill

## Patients

The overall objective of this project is to build the foundation of an autonomous, clinically available pain assessment system by developing and validating pain recognition algorithms in a fully uncontrolled ICU setting.

Rashidi (PI)

Role: PI

2018-2023 \$595,029 (Rashidi: \$595,029) National Science Foundation (NSF)

**CAREER:** Fundamental Intelligent Building Blocks of the Intensive Care Unit (ICU) of the Future

Project Goal: The major goals of this project are to develop machine learning models for patient monitoring in the critical care unit.

Rashidi (PI)

Role: PI

2021-2026 \$612,669 (UF) (Rashidi: \$53,782) National Institute of Health (NIH)

**NIDDK R01:** MEnD-AKI: Multicenter Implementation of an Electronic Decision Support System for Drug-associated AKI

The objective is to assess the effectiveness of an advanced clinical decision support system augmented with real-time predictive analytics to support a pharmacist-led intervention to reduce the progression and complications of Drug-associated Acute Kidney Injury

University of Pittsburgh Subaward (Bihorac, UF PI)

Role: UF Co-I

2015-2016 \$225,000 (Rashidi: \$95,087) National Science Foundation (NSF)

**STTR Phase I:** TAO: An Intelligent Mental Health Therapy Tool

Project Goal: The major goals of this project are to utilize the wealth of collected mental health data by online therapy tool TAO using novel natural language processing and machine learning techniques to provide highly personalized treatments to mental health patients.

Rashidi (University PI), Benton (Private Partner PI)

Role: PI

2016 \$45,000 (Rashidi: \$32,010) National Science Foundation (NSF)

**BRIDGE Phase I to II:** TAO: An Intelligent Mental Health Therapy Tool

Project Goal: The major goals of this project are to further develop the natural language processing techniques developed in Phase I using techniques such as word embedding and deep learning.

Rashidi (University PI), Benton (Private Partner PI)

Role: PI

2016-2019 \$750,000 (Rashidi: \$221,242) National Science Foundation (NSF)

**SBIR Phase II:** An Intelligent Mental Health Therapy System

Project Goal: The major goals of this project are to further develop the natural language processing and machine learning techniques developed in Phase I.

Rashidi (University PI), Benton (Private Partner PI)

Role: PI

2015-2020 \$3,231,529 (Rashidi: \$265,939) National Institute of Health (NIH)

**R01:** Finding Good Temporal Postoperative Pain Signatures

Project Goal: This project examines how postoperative pain scores change with respect to time using machine learning and advanced data science techniques such as shapelets and deep learning techniques.

Rashidi (Co-I), Tighe (PI)

Role: Co-I

2015-2018 \$665,000 (Rashidi: \$23,517) National Institute of Health (NIH)

**SBIR:** PEAKS: Validation of Mobile Technologies for Clinical Assessment, Monitoring, and Intervention

This project examines how wearable accelerometers can be used for clinical assessment and monitoring.

Rashidi (Co-I), Albinali (PI)

Role: Co-I

2016-2020 \$2,286,618 (Rashidi: \$299,313) National Institute of Health (**NIH**)  
**NIIGMS R01:** Integrating data, algorithms and clinical reasoning for surgical risk assessment  
Project Goal: This project examines how surgical risk can be assessed using machine learning and advanced data analysis techniques.

Rashidi (Co-I), Bihorac, Li (PI)

Role: Co-I

2017-2022 \$2,500,000 (Rashidi: \$750,000) National Institute of Health (**NIH**)  
**R01:** PRECEDE: PREsurgical Cognitive Evaluation via Digital clockfacE drawing.  
Project Goal: This project examines how deep learning and digital technology can be used to assess cognitive function in hospitalized patients.

Rashidi (Co-I), Tighe, Price (PI)

Role: Co-I

2013-2018 \$3,825,482 (Rashidi: \$127,985) National Institute of Health (**NIH**)  
**R01:** Artificial Intelligence in a Mobile Intervention Tool for Depression  
Project Goal: This project aims to use machine learning techniques to provide just in time intervention techniques for mental health patients.

Rashidi (Co-I), Mohr (PI)

Role: Co-I

*\*Not transferred after moving to UF*

#### ---Workshop Grants ---

2013-2014 \$15,000 (Rashidi: N/A) National Science Foundation (**NSF**)  
**Workshop:** Travel Fund for 2012 AAAI Fall Symposium on AI for Gerontechnology  
Project Goal: This workshop provided travel fund for approximately 10 early stage scholars, including graduate students and postdoctoral fellows.

Rashidi (Co-PI), PI (Cook)

Role: Co-PI

#### ---- State Grants ----

2015-2016 \$124,556 (Rashidi: \$80,627) Florida High Tech Corridor Council  
**FHTCC:** Intelligent Mental Health Treatment Recommendation  
Project Goal: The goal of this project is to automatically recommend treatments and interventions based on personalized patient profiles and their recovery trajectory. This is a matching grant on TAO Connect Inc. Industry support.

Rashidi (PI), Heesacker (co-I)

Role: PI

#### ---- Industry Support ----

2017 Deep Learning GPU Equipment (Rashidi) Industry: NVIDIA Corporation  
Intelligent Health System Lab Support  
Project Goal: The GPU equipment will be used to develop deep learning applications in the clinical domain.

Rashidi (PI)

Role: PI

2015-2016 \$18,819 (Rashidi: \$7,269) Industry: TAO Connect, Inc.  
**Matched:** Intelligent Mental Health Treatment Recommendation

Project Goal: The goal of this project is to automatically recommend treatments and interventions based on personalized patient profiles and their recovery trajectory.

Rashidi (PI), Heesacker (co-I)

Role: PI

#### ---- Internal Grants ----

2015-2016      \$30,777 (Rashidi: \$30,777)      UF Informatics Institute (UFII)  
Automatic Real-Time Detection of Delirium in Intensive Care Units using Pattern Recognition.  
Project Goal: This project examines how delirium can be detected using machine learning and advanced data analysis techniques.

Rashidi (PI)

Role: PI

2018-2019    \$56,247 (Rashidi: \$56,247)      Clinical and Translational Science Institute (CTSI)  
Automated Integration of Patient-Generated Data with the Electronic Health Record Data  
Project Goal: This project aims to integrate electronic health record data with mHealth sensor data.

Rashidi (PI)

Role: PI

2016-2018      \$24,109 (Rashidi: \$24,109)      PRICE-CTSI-IOA Pilot  
Real-Time Patient Reported Outcome of Pain in Community-dwelling Older Adults  
Project Goal: This project aim is to provide an ecological momentary assessment (EMA) tool for capturing patient reported outcome (PRO) in real time within daily life, using a smartwatch for collecting pain intensity, fatigue level, and mood.

Rashidi (PI)

Role: PI

2014-2015      \$37,838 (Rashidi: no efforts allowed) UF Informatics Institute (UFII)  
Analysis of Actigraphy Patterns for Improved Physical Activity Intervention and Preventing Mobility Incidents in Older Adults

Project Goal: The major goal of this project is to identify mobility impairment using high resolution movement data measured from accelerometer.

Rashidi (Co-I), Manini (PI)

Role: Co-I

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## TEACHING

### Primary Instructor:

- **Computer Applications For BME, BME 3053C**  
Undergraduate Course, Department of Biomedical Engineering,  
Spring 2018, Fall 2019 (Co-teaching), Spring 2020  
University of Florida
- **Biomedical Data Science, BME4931/6938**  
Graduate Course, Department of Biomedical Engineering,  
Spring 2017, Fall 2018, Fall 2019, Fall 2020  
University of Florida
- **Machine Learning for Health and Biomedical Applications, BME4931/6938**  
Graduate Course, Department of Biomedical Engineering,

Spring 2014, Fall 2015, Fall 2016  
University of Florida

- **Biomedical Informatics, BME4931/6938**  
Undergraduate Course, Department of Biomedical Engineering,  
Spring 2016, Fall 2014  
University of Florida
- **Programming Fundamentals for CIS Majors, COP 3502**  
Undergraduate Course, Computer and Information Science and Engineering,  
Spring 2012  
University of Florida

**Guest Lectures:**

**AI Applications in Engineering**  
Guest Lecture, Healthcare in AI,  
Spring 2022  
University of Florida

- **BHI Technical and Educational Lecture Series**  
Guest Lecture, EMBS Biomedical Health Informatics,  
Fall 2021 (Challenges of Developing Intelligent Critical Care Systems)  
IEEE Engineering in Medicine & Biology Society
- **Machine Learning Lecture Series**  
Guest Lecture, CBITs,  
Spring 2013  
Northwestern University
- **Introduction to Biomedical Engineering, BME 1008**  
Guest Lecture, Department of Biomedical Engineering,  
Fall 2013, Spring 2014, Spring 2016, Spring 2018, Fall 2019  
University of Florida
- **Data Science: Large-scale Advanced Data Analysis, CIS 6930 / CIS4930**  
Guest Lecture, Computer and Information Science and Engineering,  
Spring 2012  
University of Florida

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**PRESENTATIONS & INVITED TALKS**

International, National, Regional

1. **Parisa Rashidi.** “AI and Pervasive Sensing: a Partnership for The Future of Intelligent Critical Care”, *3rd International Conference on Biomedical Engineering Instrumentation (BEI-2023)*, Boston, MA, April 2023 . [Invited Talk, Featured Speaker]
2. **Parisa Rashidi.** “AI/ML in Biomedicine”, *BioFlorida Annual Conference*, Orlando, FL, November 2022. [Invited Talk, Featured Speaker]
3. **Parisa Rashidi.** “Intelligent Critical Care: Opportunities and Challenges”, *Mississippi State University Intelligent Medical Decision-Making Seminar Series*, October 2022. [Invited Talk, Speaker, Virtual]
4. **Parisa Rashidi.** “Development, Implementation, and Maintenance of Machine Learning Models in Anesthesiology”, *“The International Anesthesia Research Society”*, March 2022. [Invited Talk, Panel, Virtual]
5. **Parisa Rashidi.** “Intelligent ICU for Patient Monitoring Using Pervasive Sensing and AI”, *“IEEE Engineering Medicine and Biology Society (EMBS) Boston Section”*, January 2022. [Talk, Virtual]
6. **Parisa Rashidi.** “Incorporating ML and AI into the Biomedical Engineering Curriculum”, *Workshop on Education Initiatives in Machine Learning (ML) and Artificial Intelligence (AI) in Biomedicine*, January 2022. University of South Carolina Pastides Alumni Center, Columbia, SC [Keynote Talk, Virtual]
7. **Parisa Rashidi.** “The Sky Has No Limits: Artificial Intelligence will transform Care for Critically Ill Patients”*44th Annual Conference on Shock*, October 2021. [Invited Talk, Speaker, Debate Panelist, Virtual]
8. **Parisa Rashidi.** “Natural Language Processing: Analyzing Clinical and Mental Health Notes” *Applied Natural Language Processing (NLP) Summit*, October 2021. [Invited Talk, Speaker, Virtual]
9. **Parisa Rashidi.** “Artificial Intelligence for AKI: Is it Really Elementary, my Dear Watson?” *American Society of Nephrology’s AKI Webinar (ASN AKI!Now Program)*, September 2021. [Invited Talk, Panelist, Virtual]
10. **Parisa Rashidi.** “Intensive Care Unit and Artificial Intelligence”, *Workshop on AI and ML for Biomedical Devices*”, May 2021. [Keynote Talk, Virtual]
11. **Parisa Rashidi.** “Critical Care in the Age of Artificial Intelligence”, *Biomedical Engineering & Instrumentation Summit (BEIS-2021)*”, April 2021. [Invited Talk, Panelist, Virtual]
12. **Parisa Rashidi.** “How artificial intelligence can improve equity in health care.” *World Congress of Nephrology 2021 (WCN’21)*, April 2021. [Invited Talk, Panelist, Highlight Session, Virtual]
13. **Parisa Rashidi, Azra Bihorac.** “Pervasive Sensing in Critical Care.” *The 2020 International on Complex Acute Illness (ICCAI)*, September 2020. [Invited Talk, Panelist, Virtual]

14. **Parisa Rashidi.** “AI: Balancing Profit, Efficiency, and Patient Safety in the Operating Room and ICU.” *The 2020 International Anesthesia Research Society Meeting*, San Francisco, CA, US, May 2020. [Invited Talk, Panelist, Canceled due to COVID]
15. **Parisa Rashidi.** “Machine Learning in Medicine: Where to Start, Where We Are Going.” *The 2020 International Anesthesia Research Society Meeting*, San Francisco, CA, US, May 2020. [Invited Talk, Panelist, Canceled due to COVID]
16. **Parisa Rashidi.** “The dark Side of AI in Medicine.” *Annual Meeting of the Society for Critical Care Medicine (SCCM)*, Orlando, FL, February 2020 [Invited Talk].
17. **Parisa Rashidi.** “Intelligent Patient Monitoring Systems in Critical Care Settings.” *Mayo Clinic’s Grand Informatics Rounds*, Rochester, MN, January 2020. [Invited Talk]
18. **Parisa Rashidi.** “Intelligent Critical Care Monitoring.” *Symposium on Machine Learning in Science and Engineering*, Atlanta, GA, June 2019. [Invited Talk]
19. **Parisa Rashidi.** “Autonomous Pain Assessment in Critically Ill Patients.” *Pain Symposium, National Institute of Health (NIH)*, Washington, DC, May 2019. [Invited Talk, Mitchel Max Award Finalist]
20. **Parisa Rashidi.** “Man vs. Machine or Man + Machine? Leveraging Machine Learning and AI to Improve Health Care.” *The 2019 International Anesthesia Research Society Meeting.*, Montreal, Quebec, Canada, May 2019. [Invited Talk, Panelist]
21. **Parisa Rashidi.** “Intelligent Health Systems.” *International Conference on Computational Biomedicine*, Gainesville, FL, US, February 2019. [Invited Talk]
22. **Parisa Rashidi.** “Autonomous Pain Recognition in Critically Ill Patients”, *Annual NIH Pain Consortium Symposium*, Invited, Washington, DC, May 2019.
23. **Parisa Rashidi.** “Intelligent Patient Monitoring Systems. “*Rita Kobb Nursing Informatics Symposium*, Invited Talk, Gainesville, FL, February 2019. [Invited Talk]
24. **Parisa Rashidi.** “Deep Analysis of Messy Perioperative Data.” *Annual Meeting of the Society for Technology in Anesthesia (STA)*, Invited Talk, Panelist, Miami, FL, US, January 2018. [Invited Talk, Panelist]
25. **Parisa Rashidi.** “Data Science for mHealth Technologies and Behavioral Measurement.” *74th American Psychosomatic Society Annual Meeting*, Denver, CO, US, March 2016. [Invited Talk]
26. **Parisa Rashidi.** Intelligent Health Systems, *National Academy of Engineering, Frontiers of Engineering*, Davis, CA, 2017.
27. **Parisa Rashidi.** “Intelligent Health Systems”, *Daytona State University STEM Seminar Series*, Invited Talk, Daytona Beach, FL, February 2016.
28. **Parisa Rashidi.** “Lifelong Monitoring and Intervention.” *National Workshop on Computing Challenges in Future Mobile Health (mHealth) Systems and Applications*, Washington, D.C., US, October 2014.

29. **Parisa Rashidi.** “Machine Learning for mHealth.” *National Institute of Health (NIH)*, Washington, DC, December 2013. [Invited Lecture]
30. **Parisa Rashidi.** “Machine Learning for mHealth, mHealth Bootcamp.” *National Collaborative on Childhood Obesity Research (NCCOR)*, Atlanta, GA, December 2013. [Invited Lecture]
31. **Parisa Rashidi.** “Machine Learning for mHealth.” *National Institute of Health (NIH)*, Washington, DC, December 2012. [Invited Lecture]
32. **Parisa Rashidi.** “A Tutorial on Assisted Living Technologies for Older Adults.” *International Health Informatics Symposium (IHI)*, Miami, FL. January 2012.
33. **Parisa Rashidi.** “Machine Learning and Gerontechnology.” *Florida Institute for Human and Machine Cognition (IHMC)*, Pensacola, FL, July 2012.
34. **Parisa Rashidi.** “How Smart is Your Home?” *University of Oregon, Department of Computer Science*. Eugene, OR, March 2011.
35. **Parisa Rashidi**, and Diane J. Cook. “Mining and Monitoring Patterns of Daily Routines for Assisted Living in Real World Settings.” *International Health Informatics Symposium (IHI)*, Washington, D.C., US, November 2010.
36. **Parisa Rashidi**, and Diane J. Cook. “Activity Recognition Based on Home to Home Transfer Learning.” *Association for Artificial Intelligence (AAAI) Conference on Artificial Intelligence*, Atlanta, GA, US, July 2010.
37. **Parisa Rashidi**, and Diane J. Cook. “Multi Home Transfer Learning for Resident Activity Discovery and Recognition.” *Conference on Knowledge Discovery and Data Mining (KDD)*, Washington, D.C., US, July 2010.
38. **Parisa Rashidi**, and Diane J. Cook. “An Adaptive Sensor Mining Model for Pervasive Computing Applications.” *Conference on Knowledge Discovery and Data Mining (KDD)*, Las Vegas, NV, US, July 2010.

### Local

1. **Parisa Rashidi.** “Equity and Ethics in Medical AI.” LHS & AI Symposium, *Artificial Intelligence (AI) in the Learning Health System (LHS) Symposium*, Gainesville, FL, US, March 2021.
2. **Parisa Rashidi.** “Critical Care in the Age of Artificial Intelligence and Pervasive Sensing.” LHS & AI Symposium, *Artificial Intelligence (AI) in the Learning Health System (LHS) Symposium*, Gainesville, FL, US, February 2021.
3. **Parisa Rashidi.** “Artificial Intelligence & the Future of Work.” Santa Fe College, Gainesville, FL, US, October 2020.
4. **Parisa Rashidi.** “A Smartwatch Framework for Assessing Patient Reported Outcomes.” *Pain Research and Intervention Center of Excellence (PRICE)*, University of Florida, Gainesville, FL, US, February 2018.



5. **Parisa Rashidi.** “Intelligent Health & Wellbeing Systems.” *Institute on Aging (IOA), University of Florida*, Gainesville, FL, US, September 2014.
6. **Parisa Rashidi.** “Machine Learning for Smart Health.” *Computer and Information Science and Engineering (CISE), University of Florida*, Gainesville, FL, US, February 2014.
7. **Parisa Rashidi.** “Intelligent Health & Wellbeing Systems.” *Computational Neural Engineering Lab, Electrical and Computer Engineering (ECE), University of Florida*, Gainesville, FL, US, October 2013.
8. **Parisa Rashidi.** “Intelligent Health & Wellbeing Systems.” *Clinical and Translational Science Institute (CTSI), University of Florida*, Gainesville, FL, US, October 2013.
9. **Parisa Rashidi.** “Intelligent Health & Wellbeing Systems.” *Electrical and Computer Engineering (ECE), University of Florida*, Gainesville, FL, US, February 2014.
10. **Parisa Rashidi.** “Machine Learning for Assisted Living.”, *Cognitive Neurology and Alzheimer's Disease Center, Northwestern University*, Chicago, IL December 2012.
11. **Parisa Rashidi.** “Ambient Assisted Living.” *Feinberg School of Medicine, Northwestern University*, Chicago, IL, December 2011.

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## MENTORING

### Junior Faculty

- Somayeh Besharat Shafiei, Ph.D., Assistant Professor, Department of Urology, Roswell Park Comprehensive Cancer Center
- Al-Ani, Mohammad Ahmad Zaki Al-Ani, Assistant Professor, Department of Medicine, Cardiovascular Medicine
- Benjamin Shickel, Ph.D. Assistant Professor, Department of Medicine, Nephrology
- Heidi L. Lindroth, Nurse Scientist, Mayo Clinic
- Mamoun Mardini, Assistant Professor, Department of Aging and Geriatric Research.
- Tyler J. Loftus, Assistant Professor, Department of Surgery
- Tezcan Ozrazgat Baslanti, Assistant Professor, Department of Medicine, Nephrology
- Ivana K. Parker, Assistant Professor, Biomedical Engineering Department

### Postdoctoral Fellows (Alumni in Italic)

- *Yuanfang Ren, PhD, Machine Learning, Department of Medicine, Nephrology, 2021-2022*
- *Benjamin Shickel, Ph.D., Machine Learning, 2021*
- *Shounak Datta, Ph.D., Machine Learning, 2019-2020 [Current Position: AI Data Scientist at Change Healthcare]*
- *Ashkan Ebadi, Ph.D., Machine Learning, 2015- 2016. [Current Position: Senior Research Officer at National Research Council Canada (NRC)]*

### PhD Students (Alumni in Italic)

1. *Jessica Sena De Souza, BME, 2021 - Present*
2. *Brandon Silva, BME, Computer Vision, Time Series, 2021 - Present*
3. *Scott Siegel, BME, Quantum Machine Learning, 2017 - Present*
4. *Sabyasachi Bandyopadhyay, BME, Integrated Data Analysis, 2017 – Present*
5. *Subhash Nerella, BME, Critical Care Monitoring, 2018 - Present*
6. *Raheleh Baharloo, ECE, Physiological Time Series Analysis, 2017 - 2021*

7. Ben Shickel, CISE, *Physiological Time Series Analysis*, 2015 - 2020
8. Anis Davoudi, BME, *Intelligent ICU*, 2015 – 2020

**Master's Students Working in the Lab (Alumni in Italics)**

1. Matthew Ruppert, HOBI, *Intelligent ICU*, 2020-2022
2. Yizhe Wu, CISE, *Intelligent ICU*, 2021
3. Maitreyee Gupte, CISE, *Intelligent ICU*, 2021
4. Julie Cupka, Neuroscience, *Intelligent ICU*, 2021
5. Abubakr Omar, BME, *EMG Analysis*, 2021
6. Anirudh Mukundan Raghavan, *Intelligent ICU*, 2019-2021
7. Vasundhra Iyengar, CISE, *Intelligent ICU*, 2019-2021
8. Rahul Radhakrishnan, *Sketch Analysis*, 2020
9. Parth Shah, *Intelligent ICU*, 2019
10. Amish Suchak, CISE, *Intelligent ICU*, 2018-2019
11. Swapnendu Ray, ECE, *Intelligent ICU*, 2018-2019
12. Bharadwaj Sannapaneni, CISE, *Clinical Text Analysis*, 2018-2019
13. Nitish Kumar Rath, CISE, *Intelligent ICU*, 2018-2019
14. Kumar R Malhotra, CISE, *Activity Recognition in the ICU*, 2017-2018
15. Subhash Nerella, Mech.E, *Ultrasound Image Segmentation*, 2018
16. Yongchen Wan, CISE, *Intelligent ICU*, 2018
17. Mizuki Miyatake, BME, *Deep Learning in Ultrasound Inference*, 2016
18. Piyush Agade, CISE, *Graph analysis*, 2016
19. Karthik Maharajan Sankara Subramanian, CISE, *Pain Recognition*, 2016
20. Sritapa Dutta, CISE, *Physiological Data Analysis*, 2015
21. Dushyanth Bookanakere Nagaraju, CISE, *Graph Analysis*, 2014- 2015
22. Jagadeesh Radhakrishnan Bhaskaran, *mHealth*, CISE, 2014- 2015
23. Sudarsanan Janakiraman, *Information System and Operation Management*, 2014
24. Pankaj Narula, CISE, *Machine Learning*, 2013- 2014
25. Sanchit Katdare, *Mental Health Text Analysis*, CISE, 2013- 2014

**Individual Study (Alumni in Italics)**

1. Abubakr Omar, *EMG Data Analysis*, 2021
2. Yangru Zhou, *Machine Learning*, 2021
3. Rahul Radhakrishnan, *Sketch Analysis*, 2020
4. Pulkit Tripathi, *Clustering*, 2019
5. Nitish Kumar Rath, *Intelligent ICU*, CISE, 2019
6. Aditya Nalluri, *Deep Learning in Intraoperative Setting*, CISE, 2018
7. Ajitesh Janaswamy, *EHR DB*, CISE, 2018
8. Srajan Paliwal, *AKI Prediction Tool*, CISE, 2018
9. Ghananeel S Rotithor, *Assisted Communication Tool*, BME, 2017
10. Venkata Trivedi, *Pain Recognition Using Deep Learning*, CISE, 2016
11. Rahul James Maliakkal, *Anesthesia Equipment Recognition*, CISE, 2016
12. Sunil Kumar, *Mobile Facial Expression Recognition*, CISE, 2016
13. Ambuj Kumar, *Medical Literature Mining*, Biology, 2016
14. Amal A. Wanigatunga, *Epidemiology, Sensor Data Analysis*, Health Sciences, 2015
15. Gokul Maddali, *Named Entity Type Recognition*, CISE, 2015
16. Siddardha Maddula, *Mobile Facial Expression Recognition*, CISE, 2015
17. Dushyanth Bookanakere Nagaraju, *Graphs in Machine Learning*, CISE, 2014
18. Jain Manish Geverchand, *Audio Data Classification*, CISE, 2014
19. Jagadeesh Radhakrishnan Bhaskaran, *Sensor Data Analysis*, CISE, 2014
20. Animita Roy, *Sensor Data Analysis*, ECE, 2014

21. Benjamin Shickel, *Natural Language Processing in Mental Health, CISE, 2014*
22. Namrata Bikhchandani, *Natural language Features of Cognitive Distortions, CISE, 2014*

### **Undergraduate Students (*Alumni in Italics*)**

1. Abdul-Vehab Dozic, 2021
2. Augustus Rodriguez, 2021
3. Tiffany Gandhikumar, BME, Intelligent ICU, 2021
4. Jack T Wittmayer, CISE, 2021
5. Leeor Hershkovich, CISE, 2021
6. Kevin Miguel Vega Gonzalez, 2019-2021, University Scholar
7. *Ria Bhaskar, BME, 2018-2020*
8. *Joseph Brooks, CISE, 2018-2019, University Scholar*
9. *Christie Nguyen, BME, 2017-2019, University Scholar*
10. *Natalie Evelev, BME, 2017-2019, University Scholar*
11. *Anthony Rodriguez, BME, 2018*
12. *Matthew Ruppert, BME, 2017-2018*
13. *Kaitlyn C Adams, BME, 2017*
14. *Gouthami Gadamsetty, BME, 2017*
15. *Alexander Hall, Senior, ECE, 2016*
16. *Paul Nickerson, BME, 2015*
17. *Zachary Quicksall, BME, Honorable mention, NSF Graduate fellowship Program, 2016*

### **University Minority Mentor Program (UMMP, *Alumni in Italics*)**

1. *Michele Wu, CISE, Freshman, 2016*
2. *Anthony Voong, CISE, Freshman, 2016*
3. *Abhisek Mishra, ECE, Freshman, 2015*

### **Visiting Scholars (*Alumni in Italics*)**

1. Jessica Sena de Souza, Fulbright Scholar, Federal University of Minas Gerais, Brazil, 2021
2. *Florenc Demrozi, PhD Candidate, University of Verona, Italy, 2019*
3. *Sameh Triki, PhD Candidate, University of Toulouse, France, 2015*

### **Virtual Mentoring (*Alumni in Italics*)**

1. Richard Oveh, Nigeria, Artificial Intelligence in Nigeria, 2021

### **Student Science Training Program (SSTP, *Alumni in Italics*)**

1. *Nicholas Jackson, Junior High school, Summer 2018*
2. *Jacob York, Junior High school, Summer 2018*
3. *Avaneesh R. Kunta, Junior High school, Summer 2016*

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## **THESIS & DISSERTATION COMMITTEES**

### **Ph.D. Committee Chair (*Alumni in Italic*)**

- |   |                 |     |             |
|---|-----------------|-----|-------------|
| 1 | Subhash Nerella | BME | Spring 2023 |
| 2 | Sabyasachi      | BME | Spring 2022 |

	Bandyopadhyay		
3	Scott Siegel	BME	Spring 2022
4	Raheleh Baharloo	ECE	Spring 2021
5	<i>Davoudi, Anis</i>	<i>BME</i>	<i>Fall 2020</i>
6	<i>Shickel, Benjamin</i>	<i>CIS</i>	<i>Fall 2020</i>
		<i>E</i>	

**Ph.D. Committee Member** (*Alumni in Italic*)

1	Kyle See	BME	TBD
2	Sunil Kumar	CISE	TBD
3	Urszula Snigurska	College of Nursing	TBD
4	Rozowsky, Jared M	BME	Fall 2021
5	Peng Liu	BME	TBD
6	<i>Farnaz Babaie</i>	<i>ISE</i>	<i>Summer</i>
	<i>Sarijaloo</i>		<i>2021</i>
7	Sarah Long	BME	TBD
8	Ayse Demircan	BME	TBD
9	Kalyn Kearney	BME	TBD
10	Brianna Richardson	CISE	TBD
11	<i>Sreenivasan Meyappan</i>	<i>BME</i>	<i>Fall 2020</i>
12	<i>Pingjuin Chen</i>	<i>ECE</i>	<i>Spring 2020</i>
13	<i>Abolfazl Mollalo</i>	<i>GEO</i>	<i>Spring 2019</i>
14	<i>Xiaoshuang Shi</i>	<i>BME</i>	<i>Fall 2019</i>
15	<i>Hai Su</i>	<i>BME</i>	<i>Spring 2019</i>
16	<i>Matin Kheirkhahan</i>	<i>CISE</i>	<i>Fall 2018</i>
17	<i>Marc W Charbel</i>	<i>BME</i>	<i>Spring 2018</i>
18	<i>Abhijit Rajan</i>	<i>BME</i>	<i>Spring 2018</i>
19	<i>Manish Sapkota</i>	<i>ECE</i>	<i>Spring 2018</i>
20	<i>Yuanpu Sr Xie</i>	<i>BME</i>	<i>Spring 2018</i>
21	<i>Fuyong Xing</i>	<i>ECE</i>	<i>Spring 2018</i>
22	<i>Aniruddh Ravindran</i>	<i>BME</i>	<i>Summer</i>
			<i>2017</i>
23	<i>Fujun Liu</i>	<i>ECE</i>	<i>Summer</i>
			<i>2017</i>

**International PhD Committee Member** (*Alumni in Italic*)

1	<i>Florenc</i>	<i>University of</i>	<i>Ital</i>	<i>Spring</i>
	<i>Demrozi</i>	<i>Verona</i>	<i>y</i>	<i>2020</i>

**MS Committee Chair** (*Alumni in Italic*)

1	<i>Paul</i>	<i>BM</i>	<i>Spring</i>
	<i>Nickerson</i>	<i>E</i>	<i>2017</i>

**MS Committee Member** (*Alumni in Italic*)

1	Kai Shen	ECE	Spring 2022
2	Matthew Ruppert	HOBİ	Spring 2022

3	<i>Shaoju Wu</i>	<i>BME</i>	<i>Fall 2017</i>
4	<i>Mason M McGough</i>	<i>BME</i>	<i>Fall 2016</i>

### **Honor thesis Committee** (*Alumni in Italic*)

1	<i>Leeor Herschkovich</i>	<i>BME</i>	<i>Spring 2022</i>
2	<i>Angelica A Almeida</i>	<i>BME</i>	<i>Fall 2022</i>
3	<i>Tiffany Gandhikumar</i>	<i>BME</i>	<i>Fall 2022</i>
4	<i>Nicole Veit</i>	<i>BME</i>	<i>Fall 2020</i>
5	<i>Brecca Miller</i>	<i>BME</i>	<i>Spring 2020</i>
6	<i>Kyle B. See</i>	<i>BME</i>	<i>Spring 2019</i>
7	<i>Skylar Stolte</i>	<i>BME</i>	<i>Spring 2019</i>
8	<i>Anthony Calas</i>	<i>CISE</i>	<i>Fall 2016</i>

### **BME Supervisory Chair** (*Alumni in Italic*)

1	<i>Abubakr M. Omar</i>	<i>BME</i>	<i>2021</i>
2	<i>Yangru Zhou</i>	<i>BME</i>	<i>2020</i>
			<i>0</i>
3	<i>Megan Rahnema</i>	<i>BME</i>	<i>2019</i>
			<i>9</i>
4	<i>Ibrahim Khaled Almuteb</i>	<i>BME</i>	<i>2018</i>
			<i>8</i>

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## **Student & Fellow Awards**

- 2022, Leeor Herschkovich, Outstanding Undergraduate Research Award, BME Undergraduate Research Day
- 2021, Leeor Herschkovich, 2021 BMES Annual Meeting Travel Award
- 2019, Anis Davoudi, 2020 MCI Symposium Young Investigator Travel Scholarship
- 2019, Joseph Brooks, University Scholar
- 2018, Natalie Evelev, University Scholar
- 2018, Christie Nguyen, University Scholar
- 2018, Anis Davoudi, NSF Supported Women in Computer Vision Workshop, Conference on Computer Vision and Pattern Recognition (CVPR)
- 2018, Anis Davoudi, NSF Supported IEEE Biomedical and Health Informatics and Wearable and Implantable Body Sensor Networks Conference Student Travel Award
- 2017, Best Poster, College of Medicine Celebration of Research, Sabyasachi Bandyopadhyay
- 2016, Anis Davoudi, UF Informatics Institute Fellowship
- 2016, Zachary Quicksall, NSF Graduate Fellowship Honorable Mention
- 2016, Mizuki Miyatake, third place at BME photography contest, using deep learning

- 2014, Paul Nickerson, Honorable Mention Poster Award, BME Pruitt Research Day

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## WORKSHOP & SYMPOSIUM ORGANIZATION

- 2022 Subtrack Chair, “Machine learning for enabling Intelligent Critical Care”, *44th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Glasgow, Scotland, 2022.
- 2021 Sub-track Chair, “Deep Learning and Artificial Intelligence in Biomedical Imaging”, *The Annual Meeting of the Biomedical Engineering Society (BMES)*, San Diego, CA, US, 2020.
- 2020 Sub-track Chair, “Machine Learning in Biomedical Applications”, *The Annual Meeting of the Biomedical Engineering Society (BMES)* San Diego, CA, US, 2020.
- 2017 Co-Chair, “Workshop on Machine Learning & Knowledge Extraction for Ambient Assisted Living”, *International Cross-Domain Conference for Machine Learning and Knowledge Extraction*. Reggio Calabria, Italy, August 2017.
- 2015 Co-Chair, “Workshop on Data Mining and Decision Analytics for Public Health and Wellness”, *IEEE International Conference on Data Mining (ICDM)*. Atlantic City, New Jersey, November 2015.
- 2014 Co-Chair, “Workshop on Smart Health Systems”, *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*. Seattle, WA, September 2014.
- 2013 Co-Chair, “Symposium on Gerontechnology and AI”, *Association for the Advancement of Artificial Intelligence (AAAI)*. Washington, D.C., November 2012.
- 2012 Chair, “Workshop on Situation, Activity, Goal Awareness”, *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*. Pittsburgh, PA, September 2012.
- 2011 Co-Chair, “Workshop on Situation, Activity, Goal Awareness”, *ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)*. Beijing, China, September 2011.

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## GRANT PROPOSAL REVIEW

- Clemson University, Division of Research, Clemson, SC  
2022 External Advisory Review Board Member
- National Science Foundation (NSF)

- |      |   |
|------|---|
| 2020 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2020 | ENG/IIP, SBIR/STTR, Ad-hoc Reviewer                                 |
| 2019 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2018 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2017 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2016 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2014 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2012 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
| 2011 | CISE, Division of Information & Intelligent Systems (IIS), Panelist |
- National Institute of Health (NIH)
 

2020	Reviewer
2021	Reviewer
  - Patient-Centered Outcomes Research Institute (PCORI)
 

2016	Improving Methods, Scientist Reviewer
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  - Swiss National Science Foundation (NSF), Switzerland
 

2017	Sinergia Funding Instrument, Reviewer
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  - The Dutch Cancer Society (KWF Kankerbestrijding), Netherlands
 

2019	External Reviewer
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  - Freiburg Institute for Advanced Studies (FRIAS), Germany
 

2020	External Reviewer
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## **JOURNAL REVIEWER & EDITORIAL ROLES**

### Editor

- Editor, PLOS ONE, 2019 (10+)
- Guest Editor: Special Issue on Data Mining and Mobile Sensing in Pervasive Environments, Elsevier's Pervasive and Mobile Computing, 2014 (15+)

### b. Editorial Advisory Boards

- Editorial Review Board: Journal of Ambient Intelligence and Smart Environments (JAISE)

2014-2017 (15+)

a. Reviewer for Scholarly Journals

1. Nature, Digital Medicine, 2019 (2), 2020 (1)
2. Nature, Medicine, 2019 (1)
3. Nature, Communications, 2019 (1), 2020 (2)
4. Nature, Machine Intelligence, 2019 (1)
5. Journal of Medical Internet Research (JMIR), 2019 (1)
6. Intensive Care Medicine Experimental, 2019 (1)
7. IEEE Transaction on Mobile Computing, 2019 (1)
8. IEEE Access, 2019 (1), 2020 (3)
9. IEEE Transactions on Neural Systems & Rehabilitation Engineering (IEEE TNSRE), 2019 (1)
10. IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE), 2018 (2), 2019 (1)
11. IEEE Journal of Biomedical and Health Informatics (IEEE JBHI), 2014 (1), 2015 (1), 2018 (2), 2020 (2), 2022 (1)
12. Elsevier Current Opinion in Biomedical Engineering, 2018 (1)
13. JAMA Neurology, 2018 (1)
14. IEEE Transactions on Industrial Informatics (IEEE TII), 2018 (1)
15. IEEE Transactions on Human-Machine Systems (IEEE THMS), 2013 (1), 2014 (1), 2018 (1)
16. IEEE Transactions on Emerging Topics in Computing (IEEE TETC), 2013 (1), 2017 (1)
17. IEEE Transactions on Mobile Computing (IEEE TMC), 2017 (1)
18. PLOS ONE, PLOS Computational Biology, 2017 (1)
19. Statistical Analysis and Data Mining (SDM), 2014 (1)
20. ACM Transactions on Interactive Intelligent Systems (ACM TIIS), 2014 (1)
21. IBM Journal of Research and Development, 2014 (1)
22. ACM Transaction on Intelligent System and Technology (ACM TIST), 2012 (1)

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**CONFERENCE TECHNICAL PROGRAM COMMITTEES**

1. Technical Program Committee for IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies (CHASE), 2023
2. Technical Program Committee for IEEE/ACM Conference on Connected Health Applications, Systems, and Engineering Technologies (CHASE), 2022



3. Machine Learning in Biomedical Applications, Annual Meeting of the Biomedical Engineering Society (BMES), 2020
4. International Conference on Pervasive Health 2020
5. IEEE International Conference on Computers, Software and Applications (IEEE COMPSAC), 2019.
6. ACM International Conference on Information and Knowledge Management (CIKM), 2013, 2015, 2016.
7. IEEE International Conference on Data Mining (ICDM), 2012, 2015.
8. IEEE International Conference on Tools with Artificial Intelligence (IEEE ICTAI), 2009-2015.
9. IEEE International Conference on Big Data (Big Data 2015), Workshop on Deriving Value from BigData in HealthCare, 2015.
10. ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD), 2012, 2015.
11. International Conference of the Association for the Advancement of Artificial Intelligence (AAAI), 2013, 2014.
12. ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB), Workshop on Big Data in Life Sciences (BigLS), 2014.
13. International Conference on Data Mining (IEEE ICDM), Workshop on Data Mining and Decision Analytics for Public Health and Wellness, 2014.
14. International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI), 2014.
15. International Work Conference on Ambient Assisted Living (IWAAL), 2014.

#### Reviewer

- Annual Meeting of the Biomedical Engineering Society (BMES), 2020 (main conference, undergraduate session, 20+)
- IEEE Engineering in Medicine and Biology Society (EMBC), 2020.
- American Medical Informatics Association (AMIA) Annual Symposium, 2016-2019

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## **OUTREACH & INCLUSION**

2019	Artificial Intelligence in Medicine, Institute for Learning in Retirement at Oak Hammock
2019	Body Joint Detection Demo for K-12, BME Outreach Event at Cade Museum
2019	Sponsoring the Madelyn Lockhart Dissertation Award, Association for Academic Women's (AAW), Emerging STEM Scholar Award
2015-2016	University Minority Mentor Program (UMMP), University of Florida
2015-2017	Iranian Student Association Advisor, University of Florida
2016-2018	UF Student Science Training Program (SSTP), University of Florida

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### **MEDIA MENTIONS & INTERVIEWS**

- Communication of ACM (CACM), AI In the ICU, August 2020, [Link](#)
- CrossLink Magazine, Artificial Intelligence adds detail to health assessments in hospital intensive care units, November 2019, [Link](#)
- Herbert Wertheim College of Engineering, University of Florida, "UF Engineer Uses AI to Enhance Health Assessments In ICU", July 31, 2019, [Link](#).
- News Story, Fox 13, "Artificial Intelligence in the ICU", February 2019, [Link](#)
- News Story, CBS, "UF researchers develop new artificial intelligence system to help ICU patients", February 2019, [Link](#)
- News Story, UF Health Newsroom, "University of Florida researchers develop artificial intelligence system for fast, accurate patient care", February 2019, [Link](#)
- News Story, The Independent Florida Alligator, "UF researchers develop stronger, better, faster powered medical technology", February 2019
- Featured Alumni, the National Academy of Engineering (NAE) Frontiers of Engineering (FOE), December 2018.
- News Story, NVIDIA Blog, "AI Assists Doctors Monitor ICU Patients", May 2018, [Link](#)
- News Story, The Benzinga Financial Media, "TAO Connect Launches Mind Elevator Tool to Alter Thinking Habits Using Machine Learning Technology", August 2017, [Link](#)
- News Story, The Gainesville Sun, "UF receives \$2.5 million grant to study postsurgical pain",

July 2015. [Link](#)

- Quotes and Interview, BME Cross Link Magazine, “Computing a Healthier Future”, July 2015. [Link](#)
  - Quotes and Video, UF Promotional Video, “Enabling Technologies”, October 2014. [Link](#)
  - Quotes and Interview, New Scientist, “Smart Home Knows Just How You Like Your Breakfast”, September 2009. [Link](#)
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### UNIVERSITY & DEPARTMENT SERVICE

Summer 2020 – Present	Research Computing Advisory Committee (RCAC) to represent the Wertheim College of Engineering
Summer 2021 – Present	Chair, Inclusion, Diversity, Equity, and Access (IDEA) Committee, BME Department
Summer 2021 – Present	Faculty Advisor, Student Inclusion, Diversity, Equity, and Access (IDEA) Committee, BME Department
Summer 2021 – Present	Representative, Inclusion, Diversity, Equity, and Access (IDEA), HWCOE
Fall 2020 – Present	Committee Member, HWCOE AI Committee
Fall 2020 – Present	Committee Member, AI Systems, Master’s Program
Spring 2020 – Fall 2020	College of Engineering, AI Task Force
Fall 2019- Present	Co-Chair, Master of Applied Data Science Program
Fall 2019 - 2021	Aging Faculty Search Committee
Fall 2019, Fall 2020, Spring 2021	CISE Faculty Search Committee
Fall 2015, Spring 2016, Spring 2017	BME Undergraduate Program Committee
Spring 2018, Fall 2018, Spring 2019, Fall 2019	BME Graduate Program Committee
Fall 2014, Spring 2015	BME Faculty Search Committee
Fall 2018, Spring 2019, Fall 2019	BME Executive Committee
Spring 2014 – Spring 2018	BME Seminar Committee

Fall 2018, Spring 2018, Spring 2019,  
Fall 2019                      BME Research Committee

Spring 2014, Spring 2016, Fall 2018      Commencement Marshal

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### **PROFESSIONAL MEMBERSHIP**

Association for computing Machinery (ACM) Professional Member	2011 - Present
Institute of Electrical and Electronics Engineers (IEEE) <i>Senior Member</i>	2008 - Present
IEEE Computer Society	2008 - Present
IEEE Engineering in Medicine and Biology Society (EMBS)	2015 - Present
Biomedical Engineering Society (BMES)	2013 - Present
Association for Academic Women (AAW) at the University of Florida	2014 - Present
American Association of University Women (AAUW)	2017- Present
Society of Women Engineers (SWE)	2015 - Present
Society for Imaging Informatics in Medicine (SiiM)	2019- Present
American Association for Advancement of Science (AAAS)	2020 - Present