

Parisa Rashidi, PhD

Director of Intelligent Health Lab (iHeal),
Department of Biomedical Engineering, University of Florida
1064 Center Drive, NEB 459, Gainesville, FL 32611
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APPOINTMENTS

University of Florida

Assistant Professor, Department of Biomedical Engineering
Affiliated, Department of Electrical & Computer Engineering
Affiliated, Department of Computer & Information Science & Engineering
Affiliated, Department of Aging and Geriatric Research
Member, UF Informatics Institute (UFII)

Gainesville, FL
August '13 – present

Northwestern University, Feinberg School of Medicine

Assistant Professor, Center on Health and Engineering
Affiliated, Department of Computer Science

Chicago, IL
September '12 – June '13

University of Florida

Research Scientist,
Department of Computer & Information Science & Engineering

Gainesville, FL
September '11 – May '12

Washington State University

Graduate Research Assistant

Pullman, WA
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

EDUCATION

Washington State University

Research Area: Activity Recognition, Machine Learning
Advisor: Prof. Diane J. Cook

Ph.D., Computer Science
May 2011

Washington State University

Research Area: Activity Recognition, Machine Learning
Advisor: Prof. Diane J. Cook

M.Sc., Computer Science
December 2007

University of Tehran

Area: Intelligent Systems

Graduate Coursework
May 2006

University of Tehran

Area: Software Engineering

B.S., Computer Engineering
September 2005

HONORS & AWARDS

2019	National Institute of Health (NIH), Trailblazer Award
2019	Institute of Electrical and Electronics Engineers (IEEE), Elevated to Senior Member Grade
2018	University of Florida Term Professorship, Excellence in Research, Teaching, Service
2018	National Science Foundation Faculty Early Career Development Program (NSF CAREER)
2017	National Academy of Engineering (NAE), Frontiers of Engineering (FOE)
2015	Biomedical Engineering Society (BMES), Career Development Award
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
2005	Max-Planck Summer School Travel award, Germany

PUBLICATIONS

Summary:

Total Citation Count	2900+
h-index	21
i10-index	25

[Google Scholar Link](#)

Journal Articles

1. Benjamin Shickel, Tyler J. Loftus, Lasith Adhikari, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Parisa Rashidi. *DeepSOFA: A Continuous Acuity Score for Critically Ill Patients using Clinically Interpretable Deep Learning*. Nature Scientific Reports, volume 9, Article number: 1879 (2019).

Top 5% of all research outputs scored by Altmetric. Featured in CBS, Fox, UF Health News, NPR Local News.

2. Todd Matthew Manini; Tonatiuh Viramontes Mendoza; Manoj Battula; Anis Davoudi; Matin Kheirkhahan; Mary Ellen Young; Eric Weber; Roger Fillingim; Parisa Rashidi. *Perception of Older Adults towards Smartwatch Technology for Assessing Pain and Related Patient Reported Outcomes: A Pilot Study*. JMIR mHealth and uHealth, 2019, In press. **Impact Factor 4.5, #2 in Medical Informatics by Thomson Reuters.**
3. Anis Davoudi; Amal Asiri Wanigatunga; Matin Kheirkhahan; Duane Benjamin Corbett; Tonatiuh Viramontes Mendoza; Manoj Battula; Sanjay Ranka; Roger Benton Fillingim; Todd Matthew Manini; Parisa Rashidi. *Validation of the Samsung Gear S Smartwatch for Activity Recognition*. JMIR mHealth and uHealth, 2019, 7, no. 2 (2019): e11270. **Impact Factor 4.5, #2 in Medical Informatics by Thomson Reuters.**
4. 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.
5. 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.
6. 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 (JBI)* 89 (2019): 29-40. **Impact Factor: 3.5.**
7. Benjamin Shickel, Patrick Tighe, Azra Bihorac, Parisa Rashidi. *DeepEHR: A Survey on Advances in Analyzing Electronic Health Records (EHR) Using Deep Learning*. *IEEE Journal of Biomedical and Health Informatics (JBHI)*, vol. 22, no. 5, pp. 1589-1604, Sept. 2018. **Among Top 3 IEEE JBHI Articles of All Time. 3000+ Downloads, In the top 5% of all research outputs scored by Altmetric.**
8. 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.
9. Azra Bihorac, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Amir Motaei, Mohcine Madkour, Panagote M. Pardalos, Gloria Lipori, William R. Hogan, Philip A. Efron, Frederick Moore, Lyle L. Moldawer, Daisy Zhe Wang, Charles E. 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*. 2018. In press. **Impact factor: 8.9.**
10. 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*, vol. 22, no. 2 (2018): 623-630. **Featured cover article, March 2018.**

11. 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.
12. 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: 3.6.**
13. Ebadi, Ashkan f, 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.**
14. Tezcan Ozrazgat Baslanti, Paulette Blanc; Paul Thottakkara; Matthew Ruppert; Parisa Rashidi; Petar Momcilovic; Charles Hobson; Philip A Efron, Frederick A Moore; Azra Bihorac. *Preoperative assessment of the risk for multiple complications after surgery. Elsevier Journal of Surgery.* *Surgery* 160, no. 2 (2016): 463-472. **Impact Factor: 3.7**
15. 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): 1-11.
16. Paul Thottakkara; Tezcan Ozrazgat-Baslanti; Bradley B Hupf; Parisa Rashidi; Panos Pardalos; Petar Momcilovic; Azra Bihorac. *Application of machine learning techniques to high-dimensional clinical data to forecast postoperative complications.* *PLoS ONE.* Vol. 11, no. 5, 2016. **Impact Factor: 3.2**
17. Patrick Tighe, Matthew Bzdega, Roger Fillingim, Parisa Rashidi, Haldun Aytug *Markov Chain evaluation of acute postoperative pain transition states.* *Journal of Pain*, vol. 157 no. 3, pp. 717-28. 2016. **Impact Factor: 4.2**
18. Wanigatunga, Amal Asiri, Nickerson, Paul V., Todd M. Manini, Rashidi, Parisa *Using symbolic aggregate approximation (SAX) to visualize activity transitions among older adults.* *Journal of Physiological Measurement.* Vol. 37, No. 11, 2016.
19. Stephen D Anton, Adam J Woods, et al., Parisa Rashidi, et al., Marco Pahor. *Successful aging: Advancing the science of physical independence in older adults.* *Ageing research reviews*, Vol. 24, part B, pp. 304-327, 2015. **Impact Factor: 5.6, Citation Count:50+.**
20. David C. Mohr, Stephen M. Schueller, Enid Montague, Michelle Burns, Parisa Rashidi. *An integrated conceptual and technological framework for eHealth and mHealth interventions.* *Journal of Medical Internet Research*, vol.16, no.6, pp.146-160, 2014. **Impact Factor: 4.6, Citation Count: 180+, In the top 5% of all research outputs scored by Altmetric.**
21. Parisa Rashidi, Alex Mihailidis. *A Survey on Ambient Assisted Living Tools for Older Adults.* *IEEE Journal of Biomedical and Health Informatics*, vol.17, no.3, pp.579-590, May 2013. **Citation Count: 630+, 5700+ Downloads, Among the Top 50 IEEE JBHI Papers of All Time.**

22. Acampora, G.; Cook, D.J.; Rashidi, P.; Vasilakos, A.V., *A Survey on Ambient Intelligence in Healthcare*, Proceedings of the IEEE , vol.101, no.12, pp.2470,2494, Dec. 2013. **Impact Factor 9.1, Citation Count: 380+, 4100+ downloads.**
 23. Parisa Rashidi and Diane J. Cook. 2013. *COM: A method for mining and monitoring human activity patterns in home-based health monitoring systems*. ACM Transactions on Intelligent Systems Technology. 4, 4, Article 64, October 2013. **5-year Impact Factor: 10.4, Ranked No.1 in all ACM journals in terms of avg. citations per paper.**
 24. Diane J. Cook, Narayanan C. Krishnan, Parisa Rashidi. *Activity Discovery and Activity Recognition: A New Partnership*. IEEE Transactions on Systems, Man and Cybernetics, Part B (TSMCB), vol.43, no.3, pp.820,828, June 2013. **Impact Factor: 8.8, Citation Count: 150+, 1600+ Downloads.**
 25. Liming Chen, Parisa Rashidi. *Situation, activity and goal awareness in ubiquitous computing*. International Journal of Pervasive Computing and Communications, 8(3): 216–224, 2012.
 26. Parisa Rashidi, Diane J. Cook, Lawrence B. Holder, and Maureen Schmitter-Edgecombe. *Discovering activities to recognize and track in a smart environment*. IEEE Transactions on Knowledge and Data Engineering (TKDE), 23(4):527–53, 2011. **Citation Count: 390+, 8 Patent Citations, 3200+ downloads.**
 27. Parisa Rashidi and Diane J. Cook. *Activity knowledge transfer in smart environments*. Elsevier Journal of Pervasive and Mobile Computing (PMC), 7(1): 331–343, 2011.
 28. Parisa Rashidi and Diane J. Cook. *The resident in the loop: Adapting the smart home to the user*. IEEE Transactions on Systems, Man, and Cybernetics (SMC), Part A, 39(5):949–959, 2009. **Citation Count: 360+, 11 Patent Citations, 2700+ Downloads, No. #5 Among the Top IEEE TSMC Articles of All Time.**
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Preprint Manuscripts

1. Ebadi, Ashkan, Patrick J. Tighe, Lei Zhang, and Parisa Rashidi. "*Does the Position of Surgical Service Providers in Intra-Operative Networks Matter? Analyzing the Impact of Influencing Factors on Patients' Outcome.*" arXiv preprint arXiv:1812.07129 (2018).
 2. Adhikari, Lasith, Tezcan Ozrazgat-Baslanti, Paul Thottakkara, Ashkan Ebadi, Amir Motaei, Parisa Rashidi, Xiaolin Li, and Azra Bihorac. "*Improved Predictive Models for Acute Kidney Injury with IDEAs: Intraoperative Data Embedded Analytics.*" arXiv preprint arXiv:1805.05452 (2018).
 3. Davoudi, Anis, Kumar Rohit Malhotra, Benjamin Shickel, Scott Siegel, Seth Williams, Matthew Ruppert, Emel Bihorac et al. "*The Intelligent ICU Pilot Study: Using Artificial Intelligence Technology for Autonomous Patient Monitoring.*" arXiv preprint arXiv:1804.10201 (2018). **In the top 5% of all research outputs scored by Altmetric, Highlighted in NVIDIA News. Under Revision in Nature Scientific Reports.**
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Conference Proceeding Papers

1. Kumar Rohit Malhotra, Anis Davoudi, Scott Siegel, Azra Bihorac, Parisa Rashidi. *Autonomous detection of disruptions in the intensive care unit using deep mask R-CNN*. Workshop Women in Computer Vision Workshop (WiCV), IEEE Computer Vision and Pattern Recognition Workshops (CVPR), Salt Lake City, UT, 2018.
2. Paul Nickerson, Raheleh Baharloo, Anis Davoudi, Azra Bihorac, Parisa Rashidi. *Comparison of Gaussian Processes Methods to Linear methods for Imputation of Sparse Physiological Time Series*. The 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18), Honolulu, HI, USA, 2018.
3. Anis Davoudi, Duane B. Corbett, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Scott C. Brakenridge, Todd M. Manini, Parisa Rashidi. *Activity and Circadian Rhythm of Sepsis Patients in the Intensive Care Unit*. IEEE Biomedical and Health Informatics (BHI'18), Las Vegas, NV, USA, March 2018.
4. Shruthi Gopalswamy, Patrick J. Tighe, Parisa Rashidi. *Deep Recurrent Neural Networks for Predicting Intraoperative and Postoperative Outcomes and Trends*. 2017 IEEE International Conference on Biomedical and Health Informatics (BHI2017), Orlando, FL.
5. Davoudi, Anis, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Alberto C. Bursian, Azra Bihorac, and Parisa Rashidi. *Delirium Prediction using Machine Learning Models on Predictive Electronic Health Records Data*. In 2017 IEEE 17th International Conference on Bioinformatics and Bioengineering (BIBE), pp. 568-573. IEEE, 2017.
6. Matin Kheirkhahan, Hiranava Das, Manoj Battula, Anis Davoudi, Parisa Rashidi, Todd M. Manini, Sanjay Ranka. *Power-Efficient Real-Time Wear and Non-Wear Time Detection Method for Smartwatches*. 2017 IEEE International Conference on Biomedical and Health Informatics (BHI2017), Orlando, FL.
7. Scott Siegel, Agyeiwaa Agyei, Anis Davoudi, Patrick Tighe, Parisa Rashidi. *Intelligent Surgical Instrument Recognition System*. 2017 American Medical Informatics Association Annual Symposium (AMIA 2017), Washington, DC.
8. Marko Suvajdzic, Parisa Rashidi, Azra Bihorac. *D.R.E.A.M.S. (Digital Rehabilitation Environment-Altering Medical System)*. IEEE 5th International Conference on Serious Games and Applications for Health (SeGAH), Perth, Western Australia, 2017.
9. Benjamin Shickel, Parisa Rashidi. *ART: An Availability-Aware Active Learning Framework for Data Streams*. . The 29 International Florida Artificial Intelligence Research Society Conference (FLAIRS), Key Largo, Florida, USA, 2016.
10. Patrick Tighe, Paul Nickerson, Parisa Rashidi. *Exploring Deep Neural Network Architectures to Forecast Pain Response to Analgesics and Adverse Events*. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), 2016.
11. Ashkan Ebadi, Patrick Tighe, Lei Zheng, & Parisa Rashidi. *On the Scale-Free Characteristics of Surgical Team Networks*. The 17th International Conference on Collaboration Network (COLLNET 2016). Nancy, France. 2016.

12. Nair, Sanjay, Kheirkhahan,Matin, Davoudi,Anis, Rashidi,Parisa, Wanigatunga,Amal Asiri, Corbett,Duane Benjamin, Manini,Todd Matthew, Ranka,Sanjay. *ROAMM: A Software Infrastructure for Real-time Monitoring of Personal Health*, 18th International Conference on e-Health Networking, Applications and Services (Healthcom), Munich, Germany, 2016.
13. Benjamin Shickel, Paul Nickerson, Ashkan Ebadi, Matrin Heesacker, Sheryl Benton, Parisa Rashidi. *Self-Reflective Sentiment Analysis*. Third Computational Linguistics and Clinical Psychology Workshop (CLPsych), Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT). 2016. San Diego, CA.
14. Benjamin Shickel, Parisa Rashidi. *Automatic Triage of Mental Health Forum Posts*. Third Computational Linguistics and Clinical Psychology Workshop (CLPsych), Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT), Shared Task. 2016. San Diego, CA.
15. Dushyanth Bookanakere Nagaraju, Josue Luiz Dalboni da Rocha, Ranganatha Sitaram, Parisa Rashidi. *Classifying Alzheimer's disease Based on Complex Graph Measures and Machine Learning Techniques*. Real-time Functional Imaging and Neurofeedback Conference, 2015.
16. Parisa Rashidi. *Assisted Living Technologies for Older Adults*. In ACM International Health Informatics Symposium (IHI), pages 875–878, 2012.
17. Parisa Rashidi and Diane J. Cook. *Ask Me Better Questions: Active Learning Queries Based on Rule Induction*. In International Conference on Knowledge Discovery and Data Mining (KDD), pages 904–912, 2011. **Acceptance Rate: 17%**.
18. Parisa Rashidi and Diane J. Cook. *Domain Selection and Adaptation in Smart Homes*. In International Conference on Smart Homes and Health Telematics (ICOST), Springer-Verlag, Berlin, Heidelberg, pages 17–24, 2011.
19. Ehsan Nazarfard, Parisa Rashidi and Diane J. Cook. *Using Association Rule Mining to Discover Temporal Relations of Daily Activities*. In International Conference on Smart Homes and Health Telematics (ICOST), Springer-Verlag, Berlin, Heidelberg, pages 49–56, 2011.
20. Parisa Rashidi and Diane J. Cook. *Mining sensor streams for discovering human activity patterns over time*. In International Conference on Data Mining (ICDM), pages 431–440 2010. **Acceptance Rate: 9%**.
21. Parisa Rashidi and Diane J. Cook. *Mining and monitoring patterns of daily routines for assisted living in real world settings*. In ACM International Health Informatics Symposium (IHI), pages 336–345, 2010.
22. Parisa Rashidi and Diane J. Cook. *Multi home transfer learning for resident activity discovery and recognition*. In KDD Workshop on Knowledge Discovery from Sensor Data, pages 53–63, 2010.
23. Parisa Rashidi and Diane J. Cook. *Home to home transfer learning*. In AAAI Plan, Activity, and

Intent Recognition Workshop, pages 45–52, 2010.

24. Ehsan Nazarfard, Parisa Rashidi, and Diane J. Cook. *Discovering temporal features and relations of activity patterns*. In ICDM Workshop on Data Mining for Service, pages 1069–1075, 2010.
 25. Parisa Rashidi and Diane J. Cook. *Transferring learned activities in smart environments between different residents*. In International Conference on Intelligent Environments (IE), volume 2 of Ambient Intelligence and Smart Environments, pages 185–192. Springer-Verlag, 2009.
 26. Parisa Rashidi and Diane J. Cook. *Keeping the intelligent environment resident in the loop*. In International Conference on Intelligent Environments (IE), pages 1–9, 2008.
 27. Habib Karbasian and Parisa Rashidi. *Pbt: Persian part of speech brill tagger*. In IADIS International Conference Applied Computing, pages 348–352, 2008.
 28. Parisa Rashidi and Diane J. Cook. *An adaptive sensor mining framework for pervasive computing applications*. In KDD Workshop on Knowledge Discovery from Sensor Data, pages 41–49, 2008.
 29. Parisa Rashidi and Diane J. Cook. *Adapting to resident preferences in smart environments*. In AAAI Workshop on Preference Handling, pages 78–84, 2008.
 30. Parisa Rashidi and Roger T. Alexander. *Onspect: ontology based aspects*. In *Workshop on Foundations of Aspect-Oriented Languages*, pages 41–41, 2008.
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Book Chapters

1. Acampora, G.; Cook, D.J.; Vasilakos, A.V.; Rashidi, Parisa. *Data Analytics for Pervasive Health, Healthcare Data Analytics*. Chapman and Hall/CRC Press, 2015.
 2. Parisa Rashidi. *Stream Sequence Mining for Human Activity Discovery*, Handbook on Plan, Activity, and Intent Recognition. Elsevier, 2014.
 3. Parisa Rashidi, Narayanan C. Krishnan and Diane J. Cook. *Discovering and tracking patterns of interest in security sensor streams*, Securing Cyber-Physical Infrastructures, chapter 19. Elsevier, 2011.
 4. Parisa Rashidi, Michael Youngblood, Diane J. Cook, and Sajal Das. *Inhabitant Guidance of Smart Environments*, volume 5840 of Lecture Notes in Computer Science, pages 910–919. Springer Berlin / Heidelberg, 2007.
 5. Parisa Rashidi and Diane J. Cook. *An Adaptive Sensor Mining Framework for Pervasive Computing Applications*, volume 5840 of Lecture Notes in Computer Science, pages 154–174. Springer Berlin / Heidelberg, 2008.
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Editorial Report

1. Roy, Nirmalya, Parisa Rashidi, Larry Holder, and Liming Chen. *Special issue on data mining in pervasive environments*. (2014).
 2. Ghasemzadeh, Hassan, Diane Cook, Misha Pavel, Parisa Rashidi, Roozbeh Jafari, Marjorie Skubic, Michael Ong, and George Demiris. *SmartHealthSys 2014: ACM ubicomp international workshop on smart health systems and applications*. In Proceedings of the 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct Publication, pp. 1179-1185. ACM, 2014.
 3. Dogan, Rezarta Islamaj, Yolanda Gil, Haym Hirsh, Narayanan C. Krishnan, Michael Lewis, Cetin Mericli, Parisa Rashidi et al. *Reports on the 2012 AAAI Fall Symposium Series*. AI Magazine 34, no. 1 (2012): 93.
 4. Rashidi, Parisa, Liming Chen, and William K. Cheung. *International Workshop on Situation, Activity and Goal Awareness (SAGAware 2012)*. In Proceedings of the 2012 ACM Conference on Ubiquitous Computing, pp. 1012-1015. ACM, 2012.
 5. Chen, Liming, and Parisa Rashidi. *Special Issue on Situation, Activity and Goal Awareness, International Journal of Pervasive Computing and Communications*. (2012).
 6. Chen, Liming, Parisa Rashidi, Ismail Khalil, Zhiwen Yu, Christian Becker, and William K. Cheung. *Workshop overview for the international workshop on situation, activity and goal awareness*. In Proceedings of the 13th international conference on Ubiquitous computing, pp. 631-632. ACM, 2011.
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Conference Abstracts

1. Todd M. Manini, Anis Davoudi, Matin Kheirkhahan, Duane Corbetta, Roger Fillingim, Sanjay Ranka, 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, 2018.
2. Todd M. Manini, Anis Davoudi, Matin Kheirkhahan, Duane Corbetta, Roger Fillingim, Sanjay Ranka, Parisa Rashidi. Digging Deeper: Insights into Physical and Cognitive Health Using Novel Methods for Accelerometry and Function. Gerontological Society of America (GSA), Boston, MA, 2018.
3. Corbett, D., Davoudi, A., Kheirkhahan, M., Fillingim, R., Ranka, S., Rashidi, P., and Manini, T. Smartwatch-Based Ecological Momentary Assessment versus Questionnaire-Based Recall of Knee Pain among Older Adults. Poster presentation at the 17th World Congress on Pain (Boston, MA: September, 2018).
4. Anis Davoudi, Duane B. Corbett, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Scott C. Brakenridge, Todd M. Manini, Parisa Rashidi. Sepsis Recovery Subtyping using Actigraphy Methods. 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18), Honolulu, HI, USA, 2018

5. Benjamin Shickel, Patrick Tighe, 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's 34th Annual Meeting. Vancouver, BC, Canada, April 2018.
6. Raheleh Baharloo, Patrick Tighe, Parisa Rashidi. *Postoperative Acute Pain as a Dynamical System: Lessons from Infinite Impulse Response Filter Modeling*. American Academy of Pain Medicine's 34th Annual Meeting. Vancouver, BC, Canada, April 2018.
7. Raheleh Baharloo, Patrick Tighe, 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.
8. Benjamin Shickel, Tyler Loftus, Tezcan Ozrazgat Baslanti, Azra Bihorac, Parisa Rashidi. *Increasing SOFA Score Granularity with Deep Learning*. Society of Critical Care Medicine Congress (SCCM), San Antonio, Texas, USA, February 2018.
9. Patrick J Tighe, Zach Quicksall, Shruthi Gopalswamy, 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. May 2017.
10. David Simpson, Andrew Jin, Mizuki Miyatake, Parisa Rashidi, 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*. 42nd Annual Regional Anesthesiology and Acute Pain Medicine Meeting (ASRA), San Francisco, CA, April 2017.
11. Kaitlyn Adams, Kumar Malhorta, Scott Siegel, Anis Davoudi, Azra Bihorac, Parisa Rashidi. *Pervasive Monitoring Of Patients Activity In The Intensive Care Unit*. Biomedical Engineering Society Annual Meeting (BMES), Phoenix, Arizona, 2017.
12. Ashkan Ebadi, Paul Thottakkara, Tezcan Ozrazgat-Baslanti, Parisa Rashidi, Azra Bihorac. *Reclassification Improvement for Acute Kidney Injury Using Intraoperative Data*. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), 2016.
13. Benjamin Shickel, Parisa Rashidi, Haldun Aytug, Patrick Tighe. *Markov Decision Processes for Postoperative Acute Pain Decision Support*. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), 2016.
14. Anis davoudi, Jacob Rubin, Matthew Ruppert, Patrick Tighe, Azra Bihorac, Parisa Rashidi. *Detection of Delirium using Kinect Sensor and Accelerometer Data*. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), 2016.
15. Anis Davoudi, Sanjay Nair, Matin Kheirhahan, Sanjay Ranka, Todd M. Manini, Parisa Rashidi. *Validation of Accelerometer Data from Samsung Gear S smartwatch*. 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'16), 2016.

16. Negiin Pourafshar, Tezcan Ozrazgat-Baslanti, Anis Davoudi, Parisa Rashidi, Mark Segal, Azra Bihorac. Cardiovascular Mortality after Major Surgery in Elderly. American Society of Nephrology Meeting, Chicago, 2016.
17. Benjamin Shickel, Matthew Bzdega, Roger Fillingim, Parisa Rashidi, Haldun Aytug, Patrick Tighe. *Measuring Policy Sensitivity under Uncertain Conditions and Debatable Outcomes....Painful MDP's for Acute Pain Decision Support?* Twenty Seventh Annual Conference on Production and Operations Management Society (POMS), 2016, Orlando, Florida. **Invited Talk**
18. Benjamin Shickel, Gokul Maddali and Parisa Rashidi. *Extracting Type Relevancy of Conversational Entities for Building a Communication Assistant Tool.* The 28 International Florida Artificial Intelligence Research Society Conference, May 2015.
19. Benjamin Shickel and Parisa Rashidi. *Time-Sensitive Online Active Learning for Multiple-Oracle Data Stream Classification.* The 28 International Florida Artificial Intelligence Research Society Conference, May 2015.
20. Parisa Rashidi. Vision Paper: *Lifelong Monitoring and Intervention.* National Workshop on Computing Challenges in Future Mobile Health (mHealth) Systems and Applications, October 2014.
21. Patrick Tighe, Paul Nickerson, Roger Fillingim, *Preliminary Definitions of TEMPoral POstoperative pain Signatures via Symbolic Aggregate approximation,* National Institute of Health (NIH) Forum on Pain Research, 2014.

Selected Posters

1. A. Davoudi, B. Shickel, K. Malhotra, C. Price, P. Tighe and P. Rashidi. Deep Learning in Processing Clock Drawing Tests. Biomedical Engineering Society (BMES) Annual Meeting. Atlanta, GA, 2018.
2. S. Bandyopadhyay, N. Lysak, L. Adhikari, T. Baslanti, L. Sautina, M. Lopez, M. Segal, H. Baker, A. Bihorac and P. Rashidi. Machine Learning Based Discovery of Urinary Biomarkers of Sepsis. Biomedical Engineering Society (BMES) Annual Meeting. Atlanta, GA, 2018.
3. N. Evelev, K. Rohit Malhotra, A. Davoudi, P. Rashidi and A. Bihorac. Patient Recognition for Pervasive Monitoring of Patients in The Intensive Care Unit. Biomedical Engineering Society (BMES) Annual Meeting. Atlanta, GA, 2018.
4. Analysis of Actigraphy Data for Classifying Delirium in the ICU. N. Jackson, A. Davoudi, A. Bihorac and P. Rashidi. Biomedical Engineering Society (BMES) Annual Meeting. Atlanta, GA, 2018.
5. Comparing Machine Learning Models for Diagnosis of Patient Delirium in The ICU Using Actigraphy Data. J. York, A. Davoudi, A. Bihorac and P. Rashidi. Biomedical Engineering Society (BMES) Annual Meeting. Atlanta, GA, 2018.

6. Anis Davoudi, Duane Corbett, Tezcan Ozrazgat-Baslanti, Azra Bihorac, Scott Brakenridge, Todd Manini, Parisa Rashidi. Activity and Circadian Rhythm of Sepsis Patients in the Intensive Care Unit. 2018 Celebration of Research.
7. Sabyasachi Bandyopadhyay, Azra Bihorac, Parisa Rashidi. Machine Learning on Urinary Gene Expression to predict Sepsis in patients. Pruitt Research Day celebration, November 2017.
8. Benjamin Shickel, Azra Bihorac, Parisa Rashidi. Deep SOFA: Development and Validation of a Novel Acuity Score Framework Using Deep Learning. Pruitt Research Day celebration, November 2017.
9. Anis Davoudi, Azra Bihorac, Parisa Rashidi. Intelligent ICU for Autonomous Patient Assessment. Pruitt Research Day celebration, November 2017.
10. Anis Davoudi, Matin Kheirkhahan, Sanjay Nair, Sanjay Ranka, Todd Manini, Parisa Rashidi. Validation of Samsung Gear S smartwatch in actigraphy and energy expenditure estimation. College of Medicine Celebration of Research, 2017.
11. Weier Liu, Ashkan Ebadi, Lei Zhang, Parisa Rashidi, Patrick Tighe. Social Network Analysis of Intraoperative Teams and Perioperative Outcomes. College of Medicine Celebration of Research, 2017.
12. David Simpson, Andrew Jin, Mizuki Miyatake, Parisa Rashidi, Patrick Tighe. *Convolutional Neural Network Approaches to Preliminary Classification of Ultrasound-Guided Regional Anesthetic Target Regions*. College of Medicine Celebration of Research, 2017.
13. Tina Khorram Paul Thottakkara, Ashkan Ebadi, Tezcan Ozrazgat-Baslanti, Anis Davoudi, Parisa Rashidi, Azra Bihorac, 2016, *Application of machine learning techniques to high-dimensional clinical data to predict risk for postoperative complications*. Celebration of Research, University of Florida, 2016.
14. Ashkan Ebadi, Anis Davoudi, Paul Thottakkara, Tezcan Ozrazgat-Baslanti, Parisa Rashidi, Azra Bihorac, *GATOR Kidney Risk Score*. Celebration of Research, University of Florida, 2016.
15. Todd Manini, Parisa Rashidi, Sanjay Nair, Sanjay Ranka. *Real-time online activity and mobility monitoring (ROAMM) through wearable technology*. Annual Pepper Center Conference, 2015.
16. Paul Nickerson, Ben Shickel, Patrick Tighe, Parisa Rashidi. *Deep Learning for Post-Operative Pain Management*, BME Pruitt Research Day, 2015.
17. Ben Shickel, Parisa Rashidi. *Automatic Identification and Classification of Cognitive Distortions in Text*, BME Pruitt Research Day, 2015.
18. Matin Kheirkhahan, Parisa Rashidi, Sanjay Ranka, Todd M. Manini. *Finding Activity Patterns among Participants with Different Mobility Characteristic using Bag-of-Words Approach*. Spotlight on Aging, 2015.

19. Anis Davoudi, Matin Kheirkhahan, Sanjay Ranka, Todd M. Manini, Parisa Rashidi. *Validation of Accelerometer Data from Samsung Gear S Smart Watch*, Spotlight on Aging, 2015.
20. Amal Asiri Wanigatunga, Paul Nickerson, Todd M. Manini, Parisa Rashidi. *Examining Symbolic Aggregate approxImation (SAX) adaptive accelerometry cut-points among US older adults*. Spotlight on Aging, 2015.
21. Matin Kheirkhahan, Parisa Rashidi, Sanjay Ranka, Todd M. Manini. *Analysis of Mobility and Cognition Function in Older Adults from Actigraphy Data*, Aging Research Day, 2014.
22. Jagadeesh Radhakrishnan Bhaskaran, Ishani Parikh, Matin Kheirkhahan, Sanjay Ranka, Adam Woods, Todd M. Manini, Parisa Rashidi, *Identifying Older Adult Population Segments In Terms Of Mobility And Cognitive Function Using Hierarchical Clustering*, BME Pruitt Research Day, 2014.
23. Paul Nickerson, Patrick Tighe, Parisa Rashidi. *Mining Motifs in Vital Sign Time Series*, BME Pruitt Research Day, 2014. **Honorable Mention Poster Award**
24. Benjamin Shickel, Gokul Maddali and Parisa Rashidi. *Extracting Type Relevancy of Conversational Entities for Building a Communication Assistant Tool*. BME Pruitt Research Day, 2014.

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. Provisional Appl. No. 62/809,159, filed February 22, 2019.
- Method and Apparatus for Pervasive Patient Monitoring. Appl. No. 62/659,948, filed April 19, 2018. A&B 049648/513825.
- Method and Apparatus for Prediction of Complications After Surgery. Appl. No. PCT/IB2018/053956; Filed June 1, 2018. A&B 049648/514983.
- Cook, Diane J., and Parisa Rashidi. "Systems and methods for adaptive smart environment automation." U.S. Patent Number. 8,880,378. 4, November 2014.

GRANTS & AWARDS

AWARDED, SUMMARY	2013-2019
Number of Grants/Awards Received:	17
Faculty Share:	\$2.7 M

Total Amount:

\$11.2M

AWARDED, DETAILS

--- Federal Grants ---

2019-2022 \$576,801 (Rashidi: \$595,029) National Institute of Health (**NIH**)
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

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

2016-2018 \$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

2015-2020 \$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

2015-2019 \$2,286,618 (Rashidi: \$299,313) National Institute of Health (**NIH**)

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

2015-2019 \$2,500,00 (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

TEACHING

Primary Instructor:

- **Computer Applications For BME, BME 3053C**
Undergraduate Course, Department of Biomedical Engineering,
Spring 2018, Fall 2019 (Co-teaching)
University of Florida
- **Biomedical Data Science, BME4931/6938**
Graduate Course, Department of Biomedical Engineering,
Spring 2017, Fall 2018
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
- **Machine Learning for mHealth**
NIH m-Health Training,
December 2013, December 2012
National Institute of Health (NIH)
- **Machine Learning for mHealth**
mHealth boot camp,
December 2013
National Collaborative on Childhood Obesity Research (NCCOR)

Guest Lectures:

- **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
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
-

PRESENTATIONS & INVITED TALKS

- The 2019 International Anesthesia Research Society Meeting,
Invited Talk, Panelist,
Montreal, Quebec, Canada
May 16–20, 2019
- Rita Kobb Nursing Informatics Symposium,
Invited Talk,
Gainesville, FL
February 2019
- 6th International Conference on Computational Biomedicine,
Invited Talk,
Gainesville, FL
February, 2019
- 2018 Annual Meeting of the Society for Technology in Anesthesia (STA),
Invited Talk, Panelist,
Miami, FL
January, 2018
- 27th Annual Conference on Production and Operations Management Society
Measuring Policy Sensitivity under Uncertain Conditions and Debatable Outcomes
Orlando, FL
May, 2016
- 74th American Psychosomatic Society Annual Meeting
Data Science for mHealth Technologies and Behavioral Measurement
Denver, CO
March, 2016
- Daytona State University
Intelligent Health Systems
Daytona Beach, FL
February, 2016

- University of Florida, Institute on Aging (IOA)
 Smart and Connected Health
Gainesville, FL
September, 2014
- University of Florida, Computer & Information Science and Engineering (CISE)
 Data Science in Health
Gainesville, FL
January, 2014
- University of Florida, Electrical & Computer Engineering (ECE)
 Intelligent Health & Well-being Systems
Gainesville, FL
February, 2014
- University of Florida, Clinical and Translational Science Institute (CTSI)
 Intelligent Health & Well-being Systems
Gainesville, FL
October, 2013
- University of Florida, Biomedical Engineering Department (BME)
 Intelligent Data Driven Methods in Biomedical Informatics
Gainesville, FL
May, 2013
- Northwestern University of Florida, Cognitive Neurology and Alzheimer's Disease Center
 Machine Learning for Assisted Living
Chicago, IL
December, 2012
- 2nd ACM SIGHIT International Health Informatics Symposium (IHI)
 A Tutorial on Assisted Living Technologies for Older Adults
Miami, FL
January, 2012
- Florida Institute for Human and Machine Cognition (IHMC)
 Machine Learning and Gerontechnology
Ocala, FL
July, 2012
- Northwestern University, Feinberg School of Medicine
 Ambient Assisted Living
Chicago, IL
December, 2011
- University of Oregon, Computer Science Department
 How Smart is Your Home?
Eugene, OR
March, 2011
- 1st ACM SIGHIT International Health Informatics Symposium (IHI)
 Mining and Monitoring Patterns of Daily Routines for Assisted Living In Real World Settings

Washington, D.C.
November, 2010

- 24th AAAI Conference on Artificial Intelligence
Activity Recognition Based on Home to Home Transfer Learning.
Atlanta, GA
July, 2010
 - 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)
Multi Home Transfer Learning for Resident Activity Discovery and Recognition
Washington, D.C.
July, 2010
 - 14th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)
An Adaptive Sensor Mining Model for Pervasive Computing Applications
Las Vegas, NV
July, 2008
-

MENTORING

Postdoctoral Fellows

- Ashkan Ebadi, Ph.D., Machine Learning, 2015- 2016

Current PhD Students

1. Ben Shickel, CISE, Physiological Time Series Analysis, 2014 - Present
2. Anis Davoudi, BME, Intelligent ICU, 2015 - Present
3. Raheleh Baharloo, ECE, Physiological Time Series Analysis, 2017 - Present
4. Scott Siegel, BME, Quantum Machine Learning, 2017 - Present
5. Sabyasachi Bandyopadhyay, BME, Integrated Data Analysis, 2017 – Present
6. Joseph Bidias, BME, Acute Kidney Injury Prediction, 2018 - Present
7. Subhash Nerella, BME, Critical Care Monitoring, 2018 - Present

Current Master's Students

1. Suchak,Amish R, CISE, Intelligent ICU, 2018-2019
2. Ray,Swapnendu, ECE, Intelligent ICU, 2018-2019
3. Sannapaneni,Bharadwaj, CISE, Clinical Text Analysis, 2018-2019
4. Nitish Kumar Rath, CISE, Intelligent ICU, 2018-2019

Current Undergraduate Students

1. Joseph Brooks, CISE, 2018-2019, University Scholar
2. Christie Nguyen, BME, 2017-2019, University Scholar
3. Ria Bhaskar, BME, 2018-2019
4. Natalie Evelev, BME, 2017-2019, University Scholar

Visiting Scholars

1. Sameh Triki, PhD Candidate, University of Toulous, France, Mining Human Walking Patterns, 2015

Master's Alumni

1. Kumar R Malhotra, CISE, Activity Recognition in the ICU, 2017-2018
2. Subhash Nerella, Mech.E, Ultrasound Image Segmentation, 2018
3. Wan, Yongchen, CISE, Intelligent ICU, 2018
4. Mizuki Miyatake, BME, Deep Learning in Ultrasound Inference, 2016
5. Piyush Agade, CISE, Graph analysis, 2016
6. Karthik Maharajan Sankara Subramanian, CISE, Pain Recognition, 2016
7. Sritapa Dutta, CISE, Physiological Data Analysis, 2015
8. Dushyanth Bookanakere Nagaraju, CISE, Graph Analysis, 2014- 2015
9. Jagadeesh Radhakrishnan Bhaskaran, mHealth, CISE, 2014- 2015
10. Sudarsanan Janakiraman, Information System and Operation Management, 2014
11. Pankaj Narula, CISE, Machine Learning, 2013- 2014
12. Sanchit Katdare, Mental Health Text Analysis, CISE, 2013- 2014

Undergraduate Alumni

1. Anthony Rodriguez, BME, 2018
2. Matthew Ruppert, BME, 2017-2018
3. Kaitlyn C Adams, BME, 2017
4. Gouthami Gadamsetty, BME, 2017
5. Alexander Hall, Senior, ECE, 2016
6. Paul Nickerson, BME, 2015
7. Zachary Quicksall, BME, Honorable mention, NSF Graduate fellowship Program, 2016

Independent Study and Master Project Mentees:

- | | | | |
|-----------------------------|-----|-----|-------------|
| 2. Davoudi, Anis | | BME | Spring 2020 |
| 3. Raheleh Baharloo | | ECE | Spring 2020 |
| 4. Scott Siegel | | BME | Spring 2020 |
| 5. Sabyasachi Bandyopadhyay | BME | | Spring 2020 |
| 6. Subhash Nerella | | BME | Spring 2023 |
| 7. Joseph Bidias | | BME | Spring 2023 |

MS Committee Chair

- | | | |
|-------------------|-----|-------------|
| 1. Paul Nickerson | BME | Spring 2017 |
|-------------------|-----|-------------|

Ph.D. Committee Member

- | | | | |
|---------------------------|-----|------|-------------|
| 1. Sarah Long | | BME | TBD |
| 2. Kheirkhahan,Matin | | CISE | Fall 2018 |
| 3. Sundarar,Kalaivani | | ECE | Spring 2019 |
| 4. Zhang,Zizhao | | CISE | Spring 2020 |
| 5. Charbel,Marc W | | BME | Spring 2018 |
| 6. Liu,Fujun | | ECE | Summer 2017 |
| 7. Mcintosh,Hamadi R | | BME | Spring 2018 |
| 8. Rajan,Abhijit | | BME | Spring 2018 |
| 9. Ravindran,Aniruddh | | BME | Summer 2017 |
| 10. Sapkota,Manish | ECE | | Spring 2018 |
| 11. Su,Hai | | BME | Spring 2019 |
| 12. Xie,Yuanpu Sr | | BME | Spring 2018 |
| 13. Shi, Xiaoshuang | | BME | Spring 2019 |
| 14. Chen, Pingjuin | ECE | | Spring 2019 |
| 15. Meyappan, Sreenivasan | BME | | Spring 2019 |
| 16. Xing,Fuyong | | ECE | Spring 2018 |
| 17. Abolfazl Mollalo | | GEO | Spring 2019 |
| 18. Sunil Kumar | | CISE | Spring 2020 |
| 19. Rozowsky,Jared M | | BME | Spring 2021 |

MS Committee Member

- | | | |
|--------------------|-----|-----------|
| 1. Wu,Shaoju | BME | Fall 2017 |
| 2. Mcgough,Mason M | BME | Fall 2016 |

Honor thesis Committee

- | | | |
|------------------|------|-------------|
| 1. Kyle B. See | BME, | Spring 2019 |
| 2. Skylar Stolte | BME, | Spring 2019 |
| 3. Anthony Calas | CISE | Fall 2016 |

Student & Fellow Awards

- 2019, Joseph Brooks, University Scholar
- 2018, Natalie Evelev, University Scholar

- 2018, Christie Nguyen, University Scholar
- 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

WORKSHOP & SYMPOSIUM ORGANIZATION

- 2017 Co-Chair, Workshop on Machine Learning & Knowledge Extraction for Ambient Assisted Living, In conjunction with Cross Domain Conference for Machine Learning and Knowledge Extraction, Reggio Calabria, Italy August 29 - September 1, 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
- 2014 Co-Chair, Workshop on Smart Health Systems,
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)
Seattle, WA
- 2013 Co-chair, Symposium on Gerontechnology and AI
Association for the Advancement of Artificial Intelligence (AAAI)
Washington, D.C.
- 2012 Chair, Workshop on Situation, Activity, Goal Awareness
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)
Pittsburgh, PA
- 2011 Co-chair, Workshop on Situation, Activity, Goal Awareness
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)
Beijing, China

GRANT REVIEW

- National Science Foundation (NSF)
 - 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
- Patient-Centered Outcomes Research Institute (PCORI)
 - 2016 Improving Methods, Scientist Reviewer
- Swiss National Science Foundation (NSF)
 - 2017 Sinergia Funding Instrument, Reviewer
- The Dutch Cancer Society (KWF Kankerbestrijding)
 - 2019 External Reviewer

JOURNAL REVIEWER & EDITORIAL ROLES

- *Journal Guest Editor*: Special Issue on Data Mining and Mobile Sensing in Pervasive Environments, Elsevier's Pervasive and Mobile Computing (2013-2014)
- *Journal Editorial Review Board*: Journal of Ambient Intelligence and Smart Environments (JAISE) 2014-Present
- *Reviewer*: JAMA Neurology, 2018
- *Reviewer*: IEEE Transactions on Emerging Topics in Computing, 2013, 2017
- *Reviewer*: IEEE Transactions on Mobile Computing, 2017
- *Reviewer*: PLOS ONE, PLOS Computational Biology, 2017
- *Reviewer*: Statistical Analysis and Data Mining (SDM), 2014
- *Reviewer*: ACM Transactions on Interactive Intelligent Systems (ACM TIIS), 2014
- *Reviewer*: ACM Transaction on Intelligent System and Technology (ACM TIST), 2012-Present
- *Reviewer*: IEEE Transactions on Human-Machine Systems (IEEE THMS), 2013-2014, 2018 (1)
- *Reviewer*: IEEE Journal of Biomedical and Health Informatics (IEEE JBHI), 2014, 2015, 2018 (2)
- *Reviewer*: Elsevier Current Opinion in Biomedical Engineering, 2018 (1)
- *Reviewer*: IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE), 2018 (2), 2019 (1)
- *Reviewer*: IEEE Transactions on Industrial Informatics (IEEE TII), 2018 (1)
- *Reviewer*: IBM Journal of Research and Development, 2014 (1)
- *Reviewer*: Journal of Medical Internet Research, 2019 (1)

CONFERENCE TECHNICAL PROGRAM COMMITTEES

- Association for the Advancement of Artificial Intelligence - AAAI (2013, 2014)
- IEEE International Conference on Data Mining – ICDM (2012, 2015)
- IEEE International Conference on Tools with Artificial Intelligence – ICTAI (2009-2015)
- ACM Workshop on Big Data in Life Sciences - BCB (2014)
- Data Mining and Decision Analytics for Public Health and Wellness - ICDM (2014)
- Deriving Value from BigData in HealthCare - big-data (2015)
- ACM Conference on Knowledge Discovery and Data Mining - KDD (2012, 2015)
- Information and Knowledge Management - CIKM (2013, 2015, 2016)
- Ubiquitous Computing & Ambient Intelligence – UCAmI (2014)
- International Work-conference on Ambient Assisted Living – IWAAL (2014)
- IEEE Computer Society Signature Conference on Computers, Software and Applications (2019)

Reviewer

- American Medical Informatics Association (AMIA) Annual Symposium, 2016-2017

OUTREACH & SERVICE

2019	Join detection demo, 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

MEDIA MENTIONS & INTERVIEWS

- 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](#)

UNIVERSITY & DEPARTMENT SERVICE

Fall 2015, Spring 2016, Spring 2017	Undergraduate Program Committee
Spring 2018, Fall 2018, Spring 2019	Graduate Program Committee
Fall 2014, Spring 2015	Faculty Search Committee
Spring 2014 – Spring 2018	Seminar Committee
Spring 2014, Spring 2016, Fall 2018	Commencement Marshal

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