Parisa Rashidi, PhD

Intelligent Clinical Care Center (IC^3)
Intelligent Health Lab (iHeal)
Department of Biomedical Engineering, University of Florida
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APPOINTMENTS

University of Florida
Professor — August'24 - Present
Founding Co-Director, Intelligent Clinical Care Center (IC^3) — January'22 - Present

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

EDUCATION

Washington State University — **Ph.D., Computer Science**
Research Area: Activity Recognition, Machine Learning — May 2011

Washington State University — **M.Sc., Computer Science**
Research Area: Activity Recognition, Machine Learning — December 2007

University of Tehran — **B.S., Computer Engineering**
Area: Software Engineering — September 2005

HONORS & AWARDS

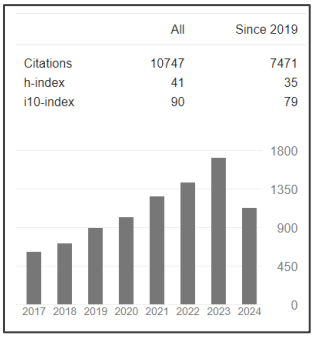
2023	Fellow, American Institute for Medical and Biological Engineering (AIMBE)
2023	Standing InnOvator Award, University of Florida
2023	University of Florida Research Foundation (UFRF) Professorship
2023	Jefferson Science Fellowship (JSF), National Academies of Sciences, Engineering, and Medicine (NAS/NAE/NAM)
2023	Innovations of the Year, Tech Licensing Favorite, University of Florida
2022	Excellence in Leadership Award, Herbert Wertheim College of Engineering, University of Florida
2021	Elected member of U.S. Food and Drug Administration (FDA)'s Network of Digital Health Experts (NoDEx), Digital Health Center of Excellence
2021	Scholar in Diagnostic Excellence, National Academy of Medicine (NAM), Finalist
2020	Faculty Research Excellence Award, Biomedical Engineering Department, 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
2005	Max-Planck Summer School Travel award, Germany

PUBLICATIONS

Summary:

Total Citation Count		10,700+
h-index		41
i10-index		90
Peer-reviewed Publications		187
Journal Articles	103	
Conference Proceedings	38	
Book Chapters	7	
Editorial Report	6	
Conference Abstracts	53	
Preprints		33



Google Scholar Link

Journal Articles[1]

1. Jiaqing Zhang, Sabyasachi Bandyopadhyay, Faith Kimmet, Jack Wittmayer, Kia Khezeli, David J Libon, Catherine C Price, and **Parisa Rashidi**. "Developing a fair and interpretable representation of the clock drawing test for mitigating low education and racial bias." *Scientific Reports* 14 (2024):17444.
2. Somayeh B Shafiei, Saeed Shadpour, James L Mohler, **Parisa Rashidi**, Mehdi Seilanian Toussi, Qian Liu, Ambreen Shafqat, and Camille Gutierrez."Prediction of Robotic Anastomosis Competency Evaluation (RACE) metrics during vesico-urethral anastomosis

[1] Journals with impact factor > 4, downloads >1K, citations > 50, and > Top 25% Altmetric scores are highlighted with ⍟. Last update: May 2023.

using electroencephalography, eye-tracking, and machine learning." *Scientific Reports* 14 (2024):14611.

3. Nerella, Subhash, Sabyasachi Bandyopadhyay, Jiaqing Zhang, Miguel Contreras, Scott Siegel, Aysegul Bumin, Brandon Silva, Jessica Sena, Benjamin Shickel, Azra Bihorac, Kia Khezeli, and **Parisa Rashidi.** "Transformers and large language models in healthcare: A review." *Artificial Intelligence in Medicine* (2024):102900.

4. Tyler J Loftus, Matthew M Ruppert, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, Jeremy A Balch, Kenneth L Abbott, Die Hu, Adnan Javed, Firas Madbak, Faheem Guirgis, David Skarupa, Philip A Efron, Patrick J Tighe, William R Hogan, **Parisa Rashidi**, Gilbert R Upchurch Jr, and Azra Bihorac. "Association of Sociodemographic Factors with Overtriage, Undertriage, and Value of Care After Major Surgery." *Annals of Surgery Open5*, no. 2 (2024):e429.

5. Sena, Jessica, Mohammad Tahsin Mostafiz, Jiaqing Zhang, Andrea E Davidson, Sabyasachi Bandyopadhyay, Subhash Nerella, Yuanfang Ren, Tezcan Ozrazgat-Baslanti, Benjamin Shickel, Tyler Loftus, William Robson Schwartz, Azra Bihorac, **Parisa Rashidi**. "Wearable sensors in patient acuity assessment in critical care." *Frontiers in Neurology* 15 (2024):1386728.

6. Ren, Yuanfang, Yanjun Li, Tyler J Loftus, Jeremy Balch, Kenneth L Abbott, Matthew M Ruppert, Ziyuan Guan, Benjamin Shickel, **Parisa Rashidi**, Tezcan Ozrazgat-Baslanti, Azra Bihorac. "Identifying acute illness phenotypes via deep temporal interpolation and clustering network on physiologic signatures." *Scientific Reports* 14, no. 1 (2024):8442.

7. Frank, Brandon, Sabyasachi Bandyopadhyay, Catherine Dion, Erin Formanski, Emily Matusz, Dana Penney, Randall Davis, Maureen K O'Connor, Rhoda Au, Shawna Amini, **Parisa Rashidi**, Patrick Tighe, David J. Libon, and Catherine C Price. "A Network Analysis of Digital Clock Drawing for Command and Copy Conditions." *Sage Journals,* (2024):1073191124123633.

8. Balch, Jeremy A., Matthew M Ruppert, Tyler J Loftus, Ziyuan Guan, Yuanfang Ren, Gilbert R Upchurch, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi,** and Azra Bihorac. "Machine learning-enabled clinical information systems using fast. Healthcare interoperability resources data standards: scoping review." *JMIR Medical Informatics* 11, (2023):e48297.

9. Kashani, Kianoush B, Linda Awdishu, Sean M Bagshaw, Erin F Barreto, Rolando Claure-Del Granado, Barbara J Evans, Lui G Forni, Erina Ghosh, Stuart L Goldstein, Sandra L Kane-Gill, Jejo Koola, Jay L Koyner, Mei Liu, Raghavan Murugan, Girish N Nadkarni, Javier A Neyra, Jacob Ninan, Marlies Ostermann, Neesh Pannu, **Parisa Rashidi,** Claudio Ronco, Mitchell H Rosner, Nicholas M Selby, Benjamin Shickel, Karandeep Singh, Danielle E Soranno, Scott M Sutherland, Azra Bihorac, and Ravindra L Mehta. "Digital health and acute kidney injury: consensus report of the 27th Acute Disease Quality Initiative workgroup." *Nature Reviews Nephrology* 19, (2023): 807-818.

10. Hershkovich, Leeor, Sabyasachi Bandyopadhyay, Jack Wittmayer, Patrick Tighe, David J Libon, Catherine C Price, and **Parisa Rashidi**. "Proof of Principle: Can Paragraph Recall Pauses and Speech Frequencies Correctly Classify Cognitively Compromised Older Adults?" *Journal of the International Neuropsychological Society*, (2023): 767-768.

11. Matusz, Emily F., Brandon E. Frank, Catherine Dion, Udell Holmes, Yonah Joffe, Sabyasachi

Bandyopadhyay, **Parisa Rashidi**, Patrick Tighe, David J. Libon, and Catherine C. Price. "Educational Differences in Digital Clock Drawing for the Copy Condition: A Bayesian Network Analysis." *Journal of the International Neuropsychological Society* (2023):728.

12. Adiyeke, Esra, Yuanfang Ren, Ziyuan Guan, Matthew M Ruppert, **Parisa Rashidi**, Azra Bihorac, and Tezcan Ozrazgat-Baslanti. "Clinical courses of acute kidney injury in hospitalized patients: a multistate analysis." *Sci Rep*, 13, 17781 (2023).

13. Adiyeke, Esra, Yuanfang Ren, Matthew M Ruppert, Benjamin Shickel, Sandra L Kane-Gill, Raghavan Murugan, **Parisa Rashidi**, Azra Bihorac, and Tezcan Ozrazgat-Baslanti. "A Deep Learning-Based Dynamic Model for Predicting Acute Kidney Injury Risk Severity in Postoperative Patients." *Surgery* 174, no. 3 (2023): 709—14.

14. Awdishu, Linda, Sean Bagshaw, Erin Barreto, Azra Bihorac, Barbara Evans, Lui Forni, Erina Ghosh, S. Goldstein, Rolando Claure-Del Granado, Sandra Kane-Gill, Kianoush Kashani, Jejo Koola, Jay Koyner, Mei Liu, Ravindra Mehta, Raghavan Murugan, Girish Nadkarni, Javier Neyra, Jacob Ninan, Marlies Ostermannm Neesh Pannu, **Parisa Rashidi,** Claudio Ronco, Mitchell Rosner, Nicholas Selby, Banjamin Shickel, Karandeep Singh, Danielle Soranno, and Scott Sutherland. "Digital Health and Acute Kidney Injury: Summary of Recommendations from the 27th Acute Disease Quality Initiative Conference." *Nature Reviews Nephrology (2023)*
    - ✪ **Impact Factor: 42.4**
    - ✪ *Authors listed alphabetically, consensus guideline development.*

15. Bandyopadhyay, Sabyasachi, Jack Wittmayer, David J. Libon, Patrick Tighe, Catherine Price, and **Parisa Rashidi**. "Explainable Semi-Supervised Deep Learning Shows That Dementia Is Associated with Small, Avocado-Shaped Clocks with Irregularly Placed Hands." *Scientific Reports* 13, no. 1 (2023): 7384.
    - ✪ **Impact Factor: 5.5**

16. Khezeli, Kia, Scott Siegel, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, Azra Bihorac, and **Parisa Rashidi**. "Reinforcement Learning for Clinical Applications." *Clinical Journal of the American Society of Nephrology* (2023): 521-523.
    - ✪ **Impact Factor: 10.6**

17. Shickel, Benjamin, Tyler J. Loftus, Matthew Ruppert, Gilbert R. Upchurch Jr, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "Dynamic Predictions of Postoperative Complications from Explainable, Uncertainty-Aware, and Multi-Task Deep Neural Networks." *Scientific Reports* 13, no. 1 (2023): 1224.
    - ✪ **Impact Factor: 5.5**

18. Al-Ani, Mohammad A., Chen Bai, Amal Hashky, Alex M. Parker, Juan R. Vilaro, Juan M. Aranda Jr., Benjamin Shickel, **Parisa Rashidi**, Azra Bihorac, Mustafa M. Ahmed, and Mamoun T. Mardini. "Artificial Intelligence Guidance of Advanced Heart Failure Therapies: A Systematic Scoping Review". *Frontiers in Cardiovascular Medicine* 10 (2023): 260.
    - ✪ **Impact Factor: 5.8**

19. Shickel, Benjamin, Tyler J. Loftus, Yuanfang Ren, **Parisa Rashidi**, Azra Bihorac, and Tezcan Ozrazgat-Baslanti. "Digital Health Transformers and Opportunities for Artificial Intelligence–

Enabled Nephrology." *Clinical Journal of the American Society of Nephrology* 18, no. 4 (2023): 527-529.

- ✪ **Impact Factor: 10.6**

20. Loftus, Tyler, Matthew Ruppert, Tezcan Ozrazgat-Baslanti, Jeremy Balch, Benjamin Shickel, Die Hu, Philip Efron, Patrick Tighe, William Hogan, **Parisa Rashidi**, Gilbert Upchurch, and Azra Bihorac. "Postoperative Overtriage to an Intensive Care Unit Is Associated with Low Value of Care." *Annals of Surgery* 277, no. 2 (2023): 179-185.
    - ✪ **Impact Factor: 13.7**

21. Loftus, Tyler J., Matthew M. Ruppert, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, Jeremy A. Balch, Die Hu, Adnan Javed, David Skarupa, Faheem Guirgis, Philip Efron, Patrick Tighe, William Hogan, **Parisa Rashidi**, Gilbert Upchurch, and Azra Bihorac. "Overtriage, Undertriage, and Value of Care after Major Surgery: An Automated, Explainable Deep Learning-Enabled Classification System." *Journal of the American College of Surgeons* (2023): 10-1097.
    - ✪ **Impact Factor: 6.5**

22. Balch, Jeremy A., Matthew M. Ruppert, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, Patrick J. Tighe, Philip A. Efron, Gilbert R. Upchurch Jr, **Parisa Rashidi**, Azra Bihorac, and Tyler John Loftus. "Building An Automated Machine Learning-Enabled Platform for Predicting Post-Operative Complications." *Physiological Measurement* 44, no.2 (2023): 024001.
    - ✪ **Altmetric score: Top 25%**

23. Ruppert, Matthew M., Tyler J Loftus, Coulter Small, Han Li, Tezcan Ozrazgat-Baslanti, Jeremy Balch, Reed Holmes, Patrick J Tighe, Gilbert R Upchurch Jr, Philip A Efron, **Parisa Rashidi**, and Azra Bihorac "Predictive Modeling for Readmission to Intensive Care: A Systematic Review." *Critical Care Explorations* 5, no. 1 (2023): e0848.

24. Benjamin Albert Chapin, Sabyasachi Bandyopadhyay, Katie Rodriguez, Shawna Amini, Nila Radhakrishnan, Patrick Tighe, **Parisa Rashidi,** and Catherine C. Price."Applying Variational Autoencoder to Explore Changes in Clock Drawing With Hip Fracture Surgery. *Alzheimer's & Dementia* 18 (2022):e067136.

25. Baharloo, Raha, Jose Principe, **Parisa Rashidi**, Patrick Tighe. "Long-Term Postoperative Pain Prediction Using Higher-Order Singular Value Decomposition of Intraoperative Physiological Responses: Prospective Cohort Study". *Journal of Medical Internet Research* (*JMIR) Perioperative Medicine* 5, no. 1 (2022): e37104.
    - *Rashidi/Tighe Equal Senior Authorship, Rashidi Corresponding Author*

26. Shickel, Benjamin, Brandon Silva, Tezcan Ozrazgat-Baslanti, Yuanfang Ren, Kia Khezeli, Ziyuan Guan, Patrick J. Tighe, Azra Bihorac, and **Parisa Rashidi**. "Multi-dimensional patient Acuity Estimation with Longitudinal EHR Tokenization and Flexible Transformer Networks." *Frontiers in Digital Health* 4 (2022):1029191.
    - ✪ **Downloads >1K**

27. 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.

- ✪ **Impact Factor: 5.5**
- ✪ **Altmetric score: Top 25%**
- ✪ **Downloads >1K**

28. Loftus, Tyler J., Benjamin Shickel, Jeremy A. Balch, Patrick J. Tighe, Kenneth L. Abbott, Brian Fazzone, Erik M. Anderson, **Parisa Rashidi**, Gilbert Upchurch, and Azra Bihorac. "Phenotype Clustering in Healthcare: A Narrative Review for Clinicians." *Frontiers in Artificial Intelligence* 5 (2022): 842306.

    - ✪ **Downloads >2K**

29. Madushani, RWMA; Vishal Patel, Tyler Loftus, Yuanfang ren, Han Jacob Li, Laura Velez, Quran Wu, Lasith Adhikari, Philip Efron, Mark Segal, Tezcan Ozrazgat Baslanti, **Parisa Rashidi**[2], and Azra Bihorac. "Early Biomarker Signatures in Surgical Sepsis." *Journal of Surgical Research* 277 (2022): 372-383.

    - *Rashidi/Baslanti/Bihorac Equal Senior Authorship*

30. 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." *Journal of the American Medical Association (JAMA) Network Open* 5, no. 5 (2022): e2211973-e2211973.

    - ✪ **Impact Factor: 13.3**

31. Loftus, Tyler J., Matthew M. Ruppert, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, Jeremy A. Balch, Philip A. Efron, Gilbert R. Upchurch Jr, **Parisa Rashidi**, Christopher Tignanelli, Jiang Bian, and Azra Bihorac. "Federated Learning for Preserving Data Privacy in Collaborative Healthcare Research." *Digital Health* 8 (2022): 20552076221134455.

    - ✪ **Impact Factor: 4.6**

32. Davoudi, Anis, Benjamin Shickel, Patrick James Tighe, Azra Bihorac, and **Parisa Rashidi**. "Potentials and Challenges of Pervasive Sensing in the Intensive Care Unit." *Frontiers in Digital Health* 4 (2022): 773387.

33. 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.* 1, no. 1 (2022): e0000006.

    - ✪ **Impact Factor: 4.3**
    - ✪ **Altmetric score: Top 5%**
    - ✪ **Downloads >8K**
    - *Rashidi/Bihorac Equal Senior Authorship*

34. Loftus, Tyler J., Benjamin Shickel, Matthew M. Ruppert, Jeremy A. Balch, Tezcan Ozrazgat-Baslanti, Patrick J. Tighe, Philip A. Efron, William R. Hogan, **Parisa Rashidi**, Gilbert R. Upchurch Jr., and Azra Bihorac. "Uncertainty-Aware Deep Learning in Healthcare: A Scoping

Review." *PLOS Digital Health* 1, no. 8 (2022): e0000085.

- ✪ **Impact Factor: 4.3**
- ✪ **Downloads >5K**

35. Loftus, Tyler J., Matthew M. Ruppert, Tezcan Ozrazgat-Baslanti, Jeremy A. Balch, Philip A. Efron, Patrick J. Tighe, William R. Hogan, **Parisa Rashidi,** Gilbert R. Upchurch, and Azra Bihorac. "Association of Postoperative Undertriage to Hospital Wards with Mortality and Morbidity." *Journal of the American Medical Association (JAMA) Network Open* 4, no. 11 (2021): e2131669-e2131669.
    - ✪ **Impact Factor: 13.3**
    - ✪ **Altmetric score: Top 25%**
    - ✪ **Downloads >5K**

36. Ren, Yuanfang, Tyler J. Loftus, Yanjun Li, Ziyuan Guan, Matthew M. Ruppert, Shounak Datta, Gilbert R. Upchurch Jr, Patrick Tighe, **Parisa Rashidi**, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, and Azra Bihorac. "Physiologic Signatures Within Six Hours of Hospitalization Identify Acute Illness Phenotypes." *PLOS Digital Health* 1, no. 10 (2022): e0000110.
    - ✪ **Impact Factor: 4.3**
    - ✪ **Altmetric score: Top 25%**

37. Loftus, Tyler J., Jeremy A. Balch, Matthew M. Ruppert, Patrick J. Tighe, William R. Hogan, **Parisa Rashidi**, Gilbert R. Upchurch, and Azra Bihorac. "Aligning Patient Acuity with Resource Intensity After Major Surgery: A Scoping Review." *Annals of Surgery* 275, no. 2 (2022): 332-339.
    - ✪ **Impact Factor: 13.7**

38. Mi, Xinlei, Baiming Zou, **Parisa Rashidi**, Raheleh Baharloo, Roger B. Fillingim, Margaret R. Wallace, Paul L. Crispen et al. "Effects of Patient and Surgery Characteristics on Persistent Postoperative Pain: A Mediation Analysis." *The Clinical Journal of Pain* 37, no. 11 (2021): 803-811.

39. 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." *F1000Research* 9 (2021): 1178.

40. Gupta, Neha, Suneet K. Gupta, Rajesh K. Pathak, Vanita Jain, **Parisa Rashidi**, and Jasjit S. Suri. "Human Activity Recognition in Artificial Intelligence Framework: A Narrative Review." *Artificial Intelligence Review* 55, no. 6 (2022): 4755-4808.
    - ✪ **Impact Factor 9.5**
    - ✪ **Citation Count: 50+**
    - ✪ **Downloads >17K**

41. 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* 12 (2021): 739728.
    - ✪ **Impact Factor 8.7**
    - ✪ **Altmetric score: Top 25%**

✪ **Downloads >4K**

42. Bandyopadhyay, Sabyasachi, Tyler J. Loftus, Ying-Chih Peng, Maria-Cecilia Lopez, Henry V. Baker, Mark S. Segal, Kiley Graim, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "Early Differentiation Between Sepsis and Sterile Inflammation Via Urinary Gene Signatures of Metabolic Dysregulation." *Shock* 58, no. 1 (2022): 20-27.
    - *Rashidi/Baslanti/Bihorac Equal Senior Authorship*

43. Davoudi, Anis, Ruba Sajdeya, Ron Ison, Jennifer Hagen, **Parisa Rashidi**, Catherine C. Price, and Patrick J. Tighe. "Fairness in the Prediction of Acute Postoperative Pain Using Machine Learning Models." *Frontiers in Digital Health* 4 (2022): 970281.

44. Giordano, Chris, Meghan Brennan, Basma Mohamed, **Parisa Rashidi**, François Modave, and Patrick Tighe. "Accessing Artificial Intelligence for Clinical Decision-Making." *Frontiers In Digital Health* 3 (2021): 645232.
    ✪ **Downloads >12K**
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45. 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): 640685.
    ✪ **Downloads >3K**

46. Datta, Shounak, Yanjun Li, Matthew M. Ruppert, Yuanfang Ren, Benjamin Shickel, Tezcan Ozrazgat-Baslanti, **Parisa Rashidi**, and Azra Bihorac. "Reinforcement Learning in Surgery." *Surgery* no. 1 (2021): 329-332.
    ✪ **Impact Factor: 4.3**
    ✪ **Altmetric score: Top 25%**

47. 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* 82, no. 1 (2021): 47-57.
    ✪ **Impact Factor: 4.4**

48. Rouzaud Laborde, Charlotte, Erta Cenko, Mamoun T. Mardini, Subhash Nerella, Matin Kheirkhahan, Sanjay Ranka, Roger B. Fillingim, Duane B Corbett, Eric Weber, **Parisa Rashidi**, Todd Manini. "Satisfaction, Usability, And Compliance with The Use of Smartwatches for Ecological Momentary Assessment of Knee Osteoarthritis Symptoms In Older Adults: Usability Study." *Journal of Medical Internet Research* (*JMIR) Aging* 4, no. 3 (2021): e24553.

49. 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." *Journal of Medical Internet Research* (*JMIR) mHealth and uHealth* 9, no. 5 (2021): e23681.
    ✪ **Impact Factor: 4.9**
    ✪ **Downloads >1.5K**

50. 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." *Journal of Medical Internet Research (JMIR) mHealth uHealth* 9, no. 1 (2021): e19609

- ✪ **Impact Factor: 4.9**
- ✪ **Downloads >1.5K**

51. 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 and Analgesia* 132, no. 5 (2021): 1465-1474.
    - ✪ **Impact Factor: 6.6**

52. 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: 9.1**

53. 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.

54. 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 Catherine Price. "Normative References for Graphomotor and Latency Digital Clock Drawing Metrics for Adults Aged 55 and Older: Operationalizing the Production of a Normal Appearing Clock". *Journal of Alzheimer's Disease* 82, no. 1 (2021): 59-70.
    - ✪ **Impact Factor: 4.4**

55. 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.
    - ✪ **Impact Factor: 15.3**
    - ✪ **Downloads >2.6K**

56. **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,**
    - **Downloads >2K**

57. 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.
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28. Ferdous Kadri, Sabyasachi Bandyopadhyay, Lasith Adhikari, Tezcan Ozrazgat-Baslanti, Larysa Sautina, Maria-Cecilia Lopez, Henry Baker, Mark Segal, Azra Bihorac, **Parisa Rashidi**. "Recognizing Sepsis: A high-throughput non-invasive assessment using machine learning and urinary microRNAs." *American Society of Nephrology Conference* (2018).

29. Evelev, Natalie, Kumar Rohit Malhotra, Anis Davoudi, Azra Bihorac, and **Parisa Rashidi**. Patient Recognition for Pervasive Monitoring of Patients in The Intensive Care Unit. *Biomedical Engineering Society (BMES) Annual Meeting*. Atlanta, GA, US, October 2018.

30. Jackson, Nicholas, Anis Davoudi, Azra Bihorac and **Parisa Rashidi**. "Analysis of Actigraphy Data for Classifying Delirium in the ICU." *Biomedical Engineering Society (BMES) Annual Meeting*. Atlanta, GA, US, October 2018.

31. 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.

32. 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.

33. 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.

34. 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.

35. 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.

36. 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.

37. 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.

38. 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.

39. 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.

40. 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.

41. 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.

42. 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.

43. 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.

44. 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.

45. 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.

46. 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.

47. 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.

48. 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.

49. 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]*

50. 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.

51. 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.

52. 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.

53. **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.

54. 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.

PATENTS

- Baharloo, Raheleh, Patrick J. Tighe, **Parisa Rashidi,** Jose C. Principe, Arash Andalib. "Prediction of post-operative pain using hosvd." U.S. Patent 18/552,486, Issued May 16, 2024. **The first method to predict the risk of mild or severe persistent post-operative pain for an individual.**
- Bandyopadhyay, Sabyasachi, Baltich Dane, Kwok Lee, Catherine E. Crenshaw Price, Parisa Rashidi, Patrick J. Tighe, and Matt Weddick. "Relevance Factor Variation Autoencoder Architecture for Analyzing Cognitive Drawing Tests." U.S. Patent 63/371,425, Issued August 4, 2023. **The first inexpensive tool to screen for dementia.**

- Rashidi, Parisa, Azra Bihorac, and Patrick J. Tighe. "Method and apparatus for pervasive patient monitoring." U.S. Patent 11,424,028, Issued August 23, 2022. **The first autonomous visual assessment system for monitoring critically ill patients in the Intensive Care Unit (ICU).**

- Bihorac, Azra, Tyler J. Loftus, Tezcan Ozrazgat Baslanti, Parisa Rashidi, and Benjamin P. Shickel. "Systems and methods for using deep learning to generate acuity scores for critically ill or injured patients." U.S. Patent Application 17/309,975 filed February 10, 2022. [**The first real-time and continuous version of the commonly used Sequential Organ Failure Assessment (SOFA) score 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. **The first adaptive smart home system utilizing machine learning techniques to adapt to residents, cited 69 times.**

GRANTS & AWARDS

Period:	2013-2023
Total Number:	25
Funded by:	NIH, NSF, State, UF
PI Status:	$35M
PI Share:	$10M
Total Amount:	$47.42M

---- Federal Grants ----

2022-2026 $23,500,000 (MPI: Rashidi, et al) Office of the Director, National Institutes of Health (ODNIH)
OT2 OD032701: **Bridge2AI:** Patient-Focused Collaborative Hospital Repository Uniting Standards (CHoRUS) for Equitable AI
To create a multi-team interdisciplinary system and co-lead the activities with the Teaming Core of theBridge2AICHoRUSData Generation Project. The Teaming module will employ inclusive team science to further the objectives of the Data Generation Project including task integration, social integration, team formation, and enhancement of diverse perspectives.
Rashidi (MPI, Rosenthal: Contact PI) Role: MPI

2022-2025 $2,137,673(MPI: Rashidi, Bihorac) National Institute of Health (**NIH**)
R01 GM110240: Explainable, Fair, Reproducible and Collaborative Surgical Artificial Intelligence: Integrating data, algorithms and clinical reasoning for surgical risk assessment (XAI-IDEALIST)
We will develop, implement, and evaluate a new framework for Explainable, Fair, Reproducible, and Collaborative AI that will provide a computational foundation for clinical implementation of surgical risk surveillance at the scale and depth necessary for large-scale prospective clinical trials.

Rashidi (MPI) Role: MPI

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 $2,872,673 (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 (Contact PI) Role: Contact PI

2021-2024 $2,426,940 (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 novel tools for sensing, quantifying, and communicating any patient's condition in an autonomous, precise, and interpretable manner.
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 $562,566 (Rashidi: $562,566) 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 $543,730 (Rashidi: $543,730) 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 $651,901(UF) 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 Role: UF Co-I

2015-2016 $225,000 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**)
NIGMS 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) 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) 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) 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 effort 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), Spring 2020, Spring 2021
  University of Florida

- **Biomedical Data Science, BME4931/6938**
  Graduate Course, Department of Biomedical Engineering,
  Spring 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021
  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

Selected PRESENTATIONS & INVITED TALKS

International

1. **Parisa Rashidi**, "Impact of AI on Higher Education", *University of Delta, Nigeria (Virtual)*, March 2024.
   - *Invited by the Junior Faculty Mentee*

2. **Parisa Rashidi.** "AAAI Fostering Dynamic Inclusivity in AI Team Science", *AAAI (American Association on Artificial Intelligence)*, Vancouver, Canada, February 2024.
   - Invited Talk, Panelist

3. **Parisa Rashidi.** "Medical AI and Pervasive Sensing: The Future of Medicine", *University of Liverpool*, United Kingdom, February 2024.
   - Invited Talk

4. **Parisa Rashidi.** "The Most Notable Literature in MLAI in Critical Care", *Society of Critical Care Congress*, Phoenix, AZ, January 2024.
   - Invited Talk

5. **Parisa Rashidi.** "Ethical and Legal Implications of AI in Surgery", Annual Meeting of the *Society of Thoracic Surgeons*, San Antonio, TX, January 2024.
   - Invited Talk

6. **Parisa Rashidi.** "The Artificial Intelligence Augmented Intensive Care Unit", *Grand Final of the 5th European Society of Intensive Care Medicine (ESICM) Datathon,* Amsterdam, Netherlands/Virtual, June 2023.
    - Invited Talk, Featured Speaker

7. **Parisa Rashidi**. "Machine Learning for Enabling Intelligent Critical Care", *Symposium on Signal Processing and Machine Learning Paradigms for Enabling the Digital Health Ecosystem, in Conjunction with the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC),* Glasgow, Scotland, July 2022.
    - Opening Remarks, Organizer

8. **Parisa Rashidi**. "Understanding Artificial Intelligence: Building Interpretable, Explainable, and Usable Models", *Annual Meetings* of *International Anesthesia Research Society,* Virtual, March 2022.
    - Invited Talk

9. **Parisa Rashidi**. "Development, Implementation, and Maintenance of Machine Learning Models in Anesthesiology", *The International Anesthesia Research Society,* Virtual, March 2022.
    - Invited Talk, Panelist

10. **Parisa Rashidi**. "Augmented Intelligence in Critical Care", *University of Toronto,* Virtual, February 2022.
    - Invited Talk

11. **Parisa Rashidi**. "The Sky Has No Limits: Artificial Intelligence will transform Care for Critically Ill Patients"*44th Annual Conference on Shock,* Virtual, October 2021.
    - Invited Talk, Speaker, Debate Panelist

12. **Parisa Rashidi**. "How Artificial Intelligence Can Improve Equity in Health Care." *World Congress of Nephrology 2021 (WCN'21),* Virtual, April 2021.
    - Invited Talk, Panelist, Session Highlight

13. **Parisa Rashidi**, Azra Bihorac. "Pervasive Sensing in Critical Care." *The 2020 International on Complex Acute Illness (ICCAI),* Virtual, September 2020.
    - Invited Talk, Panelist

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. [Canceled due to COVID]
    - Invited Talk, Panelist

15. **Parisa Rashidi**. "Machine Learning in Medicine: Where to Start, Were We Are Going." *The 2020 International Anesthesia Research Society Meeting*, San Francisco, CA, US, May 2020. [Canceled due to COVID]
    - Invited Talk, Panelist

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**. "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

18. **Parisa Rashidi**. "Intelligent Health Systems." *International Conference on Computational Biomedicine*, Gainesville, FL, US, February 2019.
    - Invited Talk

19. **Parisa Rashidi**. "Deep Analysis of Messy Perioperative Data." *Annual Meeting of the Society for Technology in Anesthesia (STA)*, Miami, FL, US, January 2018.
    - Invited Talk, Panelist

20. **Parisa Rashidi**. "A Tutorial on Assisted Living Technologies for Older Adults." *International Health Informatics Symposium (IHI)*, Miami, FL. January 2012.

21. **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.

22. **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.

23. **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.

24. **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.

National

1. **Parisa Rashidi**, "Skill and Workforce Development: A report on B2AI", *NIH Bridge2AI PI Meeting, Bethesda,* MD, March 2024.

2. **Parisa Rashidi**, "Intelligent Critical Care", *Vanderbilt University*, Nashville, TN, January 2024.

3. **Parisa Rashidi**, "AI in Acute Care Medicine", *University of Maryland*, Bethesda, MD, November 2023.

4. **Parisa Rashidi**, "What does it really mean to be AI-Ready?", *NIH Bridge2AI PI Meeting*, Los Angeles, CA, November 2023.

5. **Parisa Rashidi**, "AI in Biomedical Engineering Education", *Annual Meeting of the Biomedical Engineering Society*, Seattle, WA, October 2023.

6. **Parisa Rashidi.** AI and Pervasive Sensing for Deep Space Health Monitoring, *NASA HBISS Seminar,* Virtual, September 2023.

7. **Parisa Rashidi.** "Medical AI", Capitol Hill, Washington, D.C., August 2023.
    - Congressional Briefing

8. **Parisa Rashidi.** "Intelligent Critical Care Systems: Autonomous Monitoring and Assessment of Patient Conditions with Machine Learning", *Annual American Delirium Society Conference,* Providence, RI, US, June 2023.
    - Invited Panelist, Speaker

9. **Parisa Rashidi**. "Medical AI and Pervasive Sensing: The Future of Medicine", *University of Virginia (UVA),* VA, US, January 2023.
    - Invited Talk

10. **Parisa Rashidi**. "Critical Care and Intelligent Pervasive Sensing", *University of Maryland (UMD),* MD, US, January 2023.
    - Invited Talk

11. **Parisa Rashidi**. "Intelligent Critical Care: Opportunities and Challenges", *Mississippi State University (MSU),* Virtual, October 2022.
    - Invited Talk

12. **Parisa Rashidi**. "Intelligent ICU for Patient Monitoring Using Pervasive Sensing and AI", *IEEE Engineering Medicine and Biology Society (EMBS) Boston Section*, Virtual, January 2022.
    - Invited Talk

13. **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", *University of South Carolina*, Virtual, January 2022.
    - Keynote Talk, Panelist
14. **Parisa Rashidi**. "Natural Language Processing: Analyzing Clinical and Mental Health Notes" *Applied Natural Language Processing* (*NLP) Summit,* Virtual, October 2021.
    - Invited Talk

15. **Parisa Rashidi**. "Intensive Care Unit and Artificial Intelligence", *Workshop on AI and ML for Biomedical Devices",* Virtual, May 2021.
    - Keynote Talk

16. **Parisa Rashidi**. "Artificial Intelligence for AKI: Is it Really Elementary, my Dear Watson?" *American Society of Nephrology's AKI Webinar (ASN AKI!Now Program),* Virtual, September 2021.
    - Invited Talk, Panelist

17. **Parisa Rashidi**. "Critical Care in the Age of Artificial Intelligence", *Biomedical Engineering & Instrumentation Summit (BEIS-2021)",* Virtual, April 2021.

- Invited Talk, Panelist

18. **Parisa Rashidi**. "Intelligent Patient Monitoring Systems in Critical Care Settings." *Mayo Clinic's Grand Informatics Rounds*, Rochester, MN, January 2020.
    - Invited Talk

19. **Parisa Rashidi**. "Intelligent Critical Care Monitoring." *Symposium on Machine Learning in Science and Engineering*, Atlanta, GA, June 2019.
    - Invited Talk

20. **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

21. **Parisa Rashidi**. "Autonomous Pain Recognition in Critically Ill Patients", *Annual NIH Pain Consortium Symposium*, Washington, DC, May 2019.
    - Invited Talk

22. **Parisa Rashidi**. Intelligent Health Systems, *National Academy of Engineering, Frontiers of Engineering*, Davis, CA, 2017.

23. **Parisa Rashidi**. "Data Science for mHealth Technologies and Behavioral Measurement." *74th American Psychosomatic Society Annual Meeting*, Denver, CO, US, March 2016.
    - Invited Talk

24. **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.

25. **Parisa Rashidi**. "Machine Learning for mHealth." *National Institute of Health (NIH)*, Washington, DC, December 2013.
    - Invited Talk

26. **Parisa Rashidi**. "Machine Learning for mHealth, mHealth Bootcamp." *National Collaborative on Childhood Obesity Research (NCCOR)*, Atlanta, GA, December 2013.
    - Invited Talk

27. **Parisa Rashidi**. "Machine Learning for mHealth." *National Institute of Health (NIH)*, Washington, DC, December 2012.
    - Invited Talk

28. **Parisa Rashidi**. "How Smart is Your Home?" *University of Oregon, Department of Computer Science*. Eugene, OR, March 2011.
    - Invited Talk

<u>Regional</u>

25. **Parisa Rashidi.** "What is AI Anyhow?", *Inaugural AI for Healthcare (AI4Health) Conference,* Orlando, FL, US, June 2023.
    - Organizer, Opening Remarks and Panel Moderator

26. **Parisa Rashidi**. "AI/ML in Biomedicine", *BioFlorida Annual Conference*, Orlando, FL, November 2022.
    - Invited Talk, Featured Speaker

27. Kent Fuchs, **Parisa Rashidi,** Naguib Attia. "Announcement of University of Florida West Palm Beach Campus and IBM Partnership", Opening Remarks with President Fuchs and Naguib Attia, IBM's Vice President for Global University Programs, West palm Beach, FL, February 2022.
    - UF Announcement Remarks

28. **Parisa Rashidi**. "Intelligent Patient Monitoring Systems. "*Rita Kobb Nursing Informatics Symposium*, Invited Talk, Gainesville, FL, February 2019.
    - Invited Talk

29. **Parisa Rashidi**. "Intelligent Health Systems", *Daytona State University STEM Seminar Series*, Daytona Beach, FL, February 2016.
    - Invited Talk

30. **Parisa Rashidi**. "Machine Learning and Gerontechnology." *Florida Institute for Human and Machine Cognition (IHMC)*, Pensacola, FL, July 2012.
    - Invited Talk

Local

31. **Parisa Rashidi**. "Equity and Ethics in Medical AI." *Artificial Intelligence (AI) in the Learning Health System (LHS) Symposium*, Gainesville, FL, US, March 2021.

32. **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.

33. **Parisa Rashidi**. "Artificial Intelligence & the Future of Work." Santa Fe College, Gainesville, FL, US, October 2020.

34. **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.

35. **Parisa Rashidi**. "Intelligent Health & Wellbeing Systems." *Institute on Aging (IOA), University of Florida*, Gainesville, FL, US, September 2014.

36. **Parisa Rashidi**. "Machine Learning for Smart Health." *Computer and Information Science and Engineering (CISE), University of Florid*, Gainesville, FL, US, February 2014.

37. **Parisa Rashidi**. "Intelligent Health & Wellbeing Systems." *Computational Neural Engineering Lab, Electrical and Computer Engineering (ECE), University of Florida*, Gainesville, FL, US, October 2013.

38. **Parisa Rashidi**. "Intelligent Health & Wellbeing Systems." *Clinical and Translational Science Institute (CTSI), University of Florida*, Gainesville, FL, US, October 2013.

39. **Parisa Rashidi**. "Intelligent Health & Wellbeing Systems." *Electrical and Computer Engineering (ECE), University of Florida*, Gainesville, FL, US, February 2014.

40. **Parisa Rashidi**. "Machine Learning for Assisted Living.", *Cognitive Neurology and Alzheimer's Disease Center, Northwestern University*, Chicago, IL December 2012.

41. **Parisa Rashidi**. "Ambient Assisted Living." *Feinberg School of Medicine, Northwestern University*, Chicago, IL, December 2011.

MENTORING

Tenure-Track Faculty

1. Scott Robinson, Division of Cardiovascular Medicine, College of Medicine, University of Florida, 2023 – Present.
2. Mohammad Ahmad Zaki Al-Ani, Division of Cardiovascular Medicine, College of Medicine, University of Florida, 2022 – Present.
3. Jiang Zhe, Department of Computer & Information Science & Engineering, College of Engineering, University of Florida, 2022 – Present.
4. Somayeh Besharat Shafiei, Department of Urology, Roswell Park Comprehensive Cancer Center, Buffalo, NY, 2022 – Present.
5. Benjamin Shickel, Division of Nephrology, University of Florida, 2022 – Present.
6. Heidi L. Lindroth, Mayo Clinic, Rochester, MN, 2021 – Present.
7. Mamoun Mardini, Department of Health Outcomes and Biomedical Informatics, College of Medicine, University of Florida, 2020 – Present.
8. Tyler J. Loftus, Department of Surgery, College of Medicine, University of Florida, 2019 – Present.
9. Shixie Jiang, Department of Neuropsychology, University of Florida, 2023 – Present.

Research Faculty

1. Kia Khezeli, Biomedical Engineering Department, College of Engineering, University of Florida, 2022 – Present.
2. Yuanfang Ren, Division of Nephrology, College of Medicine, University of Florida, 2022 – Present.
3. Tezcan Ozrazgat Baslanti, Division of Nephrology, College of Medicine, University of Florida, 2019 – Present.

Postdoctoral Fellows

1. Benjamin Shickel, Biomedical Engineering Department, College of Engineering, University of Florida, 2021.
    - ❖ Current Position: Assistant Professor, University of Florida
2. [Co-Mentored] Yuanfang Ren, Division of Nephrology, College of Medicine, University of Florida, 2021-2022
    - ❖ Current Position: Assistant Scientist, University of Florida
3. [Co-Mentored] Shounak Datta, Division of Nephrology, College of Medicine, University of

Florida, 2019-2020,
   - ❖ Current Position: Applied ML Scientist, Amazon
4. Ashkan Ebadi, Biomedical Engineering Department, College of Engineering, University of Florida, 2015- 2016.
   - ❖ Current Position: Senior Research Officer, National Research Council Canada (NRC)

PhD Students

1. Xiangren Wang, Public Health, 2023-Present
2. Jeremy Balch, General Surgery,
3. Jiaqing Zhang, Electrical and Computer Engineering, 2022 - Present
4. Brandon Silva, CISE, 2021 - Present
5. Miguel Contreras, BME, 2021 - Present
6. Subhash Nerella, BME, 2018 - 2023
7. Scott Siegel, BME, 2018 - 2023
8. Sabyasachi Bandyopadhyay, BME, 2018 – 2023
9. Raheleh Baharloo, ECE, 2017 - 2021
10. Benjamin Shickel, CISE, 2015 - 2020
11. Anis Davoudi, BME, 2015 – 2020

Visiting PhD Scholars

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

MS Students

1. Travis Koenig, BME 2024
2. Nitin Ramesh, CISE, 2022-2023
3. Sripriya Simhadri, CISE, 2022-2023
4. Yash Punage, CISE, 2022-2023
5. Deepakraju Rangaraju, CISE, 2022-2023
6. Matthew Ruppert, HOBI, 2020-2022
7. Yizhe Wu, CISE, 2021
8. Maitreyee Gupte, CISE, 2021
9. Julie Cupka, Neuroscience, 2021
10. Abubakr Omar, BME, 2021
11. Anirudh Mukundan Raghavan, CISE, 2019-2021
12. Vasundhra Iyengar, CISE, 2019-2021
13. Rahul Radhakrishnan, CISE, 2020
14. Parth Shah, CISE, 2019
15. Amish Suchak, CISE, 2018-2019
16. Swapnendu Ray, ECE, 2018-2019
17. Bharadwaj Sannapaneni, CISE, 2018-2019
18. Nitish Kumar Rath, CISE, 2018-2019
19. Kumar R Malhotra, CISE, 2017-2018
20. Subhash Nerella, Mech.E, 2018
21. Yongchen Wan, CISE, 2018
22. Mizuki Miyatake, BME, 2016
23. Piyush Agade, CISE, 2016

24. Karthik Maharajan Sankara Subramanian, CISE, 2016
25. Sritapa Dutta, CISE, 2015
26. Dushyanth Bookanakere Nagaraju, CISE, 2014- 2015
27. Jagadeesh Radhakrishnan Bhaskaran, CISE, 2014- 2015
28. Sudarsanan Janakiraman, Information System and Operation Management, 2014
29. Pankaj Narula, CISE, 2013- 2014
30. Sanchit Katdare, CISE, 2013- 2014

Individual Study

1. Deepakraju Rangaraju, 2023
2. Kelsey Sinclair, BME, 2023
3. Seowung Leem, BME, 2023
4. Dhruv Kaliraman, BME, CISE, 2023
5. Mohammad Tahsin Mostafiz, Time Series Analysis, ECE, 2023
6. Christian Garcia, BME, 2022
7. Jasmine Smith, BME, 2022
8. Omar Abubakr, BME 2022
9. Leeor Hershkovich, ENG, 2022
10. Tiffany Gandikhumar, ENG, 2022
11. David Johnson, BME, 2021
12. Omar Mustafa, ENG, 2021
13. Raheleh Baharloo, EEL, 2021
14. Kyle See, BME, 2021
15. Yangru Zhou, BME, 2021
16. Ibrahim Almuteb, BME, 2021
17. Ria Bhaskar, ENG, 2021
18. Abubakr Omar, EMG Data Analysis, BME, 2021
19. Yangru Zhou, Machine Learning, 2021
20. Rahul Radhakrishnan, Sketch Analysis, 2020
21. Anis Davoudi, BME, 2020
22. Hunter Hakimian, BME, 2020
23. Kevin Gonzalez, ENG, 2020
24. Pulkit Tripathi, Clustering, 2019
25. Nitish Kumar Rath, Intelligent ICU, CISE, 2019
26. Aditya Nalluri, Deep Learning in Intraoperative Setting, CISE, 2018
27. Ajitesh Janaswamy, EHR DB, CISE, 2018
28. Srajan Paliwal, AKI Prediction Tool, CISE, 2018
29. Ghananeel S Rotithor, Assisted Communication Tool, BME, 2017
30. Venkata Trived, Pain Recognition Using Deep Learning, CISE, 2016
31. Rahul James Maliakkal, Anesthesia Equipment Recognition, CISE, 2016
32. Sunil Kumar, Mobile Facial Expression Recognition, CISE, 2016
33. Ambuj Kumar, Medical Literature Mining, Biology, 2016
34. Amal A. Wanigatunga, Epidemiology, Sensor Data Analysis, Health Sciences, 2015
35. Gokul Maddali, Named Entity Type Recognition, CISE,2015
36. Siddardha Maddula, Mobile Facial Expression Recognition, CISE, 2015
37. Dushyanth Bookanakere Nagaraju, Graphs in Machine Learning, CISE,2014
38. Jain Manish Geverchand, Audio Data Classification, CISE, 2014
39. Jagadeesh Radhakrishnan Bhaskaran, Sensor Data Analysis, CISE, 2014
40. Animita Roy, Sensor Data Analysis, ECE, 2014
41. Benjamin Shickel, Natural Language Processing in Mental Health, CISE, 2014
42. Namrata Bikhchandani, Natural language Features of Cognitive Distortions, CISE, 2014

Undergraduate Students

1. Aria Yousefi, Architecture, 2020-2024
2. Leeor Hershkovich, CISE, 2021-2023
3. Jack T Wittmayer, CISE, 2021-2023
4. Abdul-Vehab Dozic, 2021
5. Augustus Rodriguez, 2021
6. Tiffany Gandhikumar, BME, Intelligent ICU, 2021
7. Kevin Miguel Vega Gonzalez, 2019-2021, University Scholar
8. Ria Bhaskar, BME, 2018-2020
9. Joseph Brooks, CISE, 2018-2019, University Scholar
10. Christie Nguyen, BME, 2017-2019, University Scholar
11. Natalie Evelev, BME, 2017-2019, University Scholar
12. Anthony Rodriguez, BME, 2018
13. Matthew Ruppert, BME, 2017-2018
14. Kaitlyn C Adams, BME, 2017
15. Gouthami Gadamsetty, BME, 2017
16. Alexander Hall, Senior, ECE, 2016
17. Paul Nickerson, BME, 2015
18. Zachary Quicksall, BME, Honorable mention, NSF Graduate fellowship Program, 2016

Summer Undergraduate Research in Florida Fellowship (SURF)

1. Ahna Cecil, CISE, 2022

University Minority Mentor Program (UMMP)

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

Virtual Mentoring

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

Student Science Training Program (SSTP)

1. Himal Bamzai-Wokhlu, Junior High School, Summer 2022
2. Nicholas Jackson, Junior High school, Summer 2018
3. Jacob York, Junior High school, Summer 2018
4. Avaneesh R. Kunta, Junior High school, Summer 2016

THESIS & DISSERTATION COMMITTEE**S**

Ph.D. Committee Member

1. Pankaj Chand, CISE, TBD
2. Yonah Joffe, Public Health ,TBD
3. Charlie T. Tran, ECE, TBD
4. Kyle See, BME, TBD
5. Sunil Kumar, CISE, TBD
6. Urszula Snigurska, Nursing, TBD

7. Peng Liu, BME, TBD
8. Sarah Long, BME, TBD
9. Ayse Demircan, BME, TBD
10. Kalyn Kearney, BME, TBD
11. Brianna Richardson, CISE, TBD
12. Rozowsky, Jared M, BME, 2021
13. Farnaz Babaie Sarijaloo, ISE, 2021
14. Sreenivasan Meyappan, BME , 2020
15. Pingjuin Chen, ECE, 2020
16. Abolfazl Mollalo, GEO, 2019
17. Xiaoshuang Shi, BME, 2019
18. Hai Su, BME, 2019
19. Matin Kheirkhahan, CISE, 2018
20. Marc W Charbel, BME, 2018
21. Abhijit Rajan, BME, 2018
22. Manish Sapkota, ECE, 2018
23. Yuanpu Sr Xie, BME, 2018
24. Fuyong Xing, ECE, 2018
25. Aniruddh Ravindran, BME, 2017
26. Fujun Liu, ECE, 2017

International PhD Committee Member

1. Florenc Demrozi, University of Verona, Italy, 2020
2. Jessica De Souza, Federal University of Minas Gerais, Brazil, 2023

MS Committee Chair

1	Kelsey A. Sinclair	BME	2022
2	Paul Nickerson	BME	Spring 2017

MS Committee Member

1	Kai Shen	ECE	Spring 2022
2	Matthew Ruppert	HOBI	Spring 2022
3	Shaoju Wu	BME	Fall 2017
4	Mason M McGough	BME	Fall 2016

Honor thesis Committee

1	Pratyush Shukla	CISE	Spring 2024
2	Leeor Herschkovich	BME	Spring 2022
3	Angelica A Almeida	BME	Fall 2022
4	Tiffany Gandhikumar	BME	Fall 2022
5	Nicole Veit	BME	Fall 2020

6	Brecca Miller	BME	Spring 2020
7	Kyle B. See	BME	Spring 2019
8	Skylar Stolte	BME	Spring 2019
9	Anthony Calas	CISE	Fall 2016

BME Supervisory Chair

1	Abubakr M. Omar	BME	2021
2	Yangru Zhou	BME	2020
3	Megan Rahnama	BME	2019
4	Ibrahim Khaled Almuteb	BME	2018

Student & Fellow Awards

- 2022, Leeor Hershkovich, Outstanding Undergraduate Research Award, BME Undergraduate Research Day
- 2021, Leeor Hershkovich, 2021 BMES Annual Meeting Travel Award
- 2019, Anis Davoudi, 2020 Symposium Young Investigator Travel Scholarship, Mild Cognitive Impairment (MCI)
- 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

International

2023 Co-Chair, Technical Program, *IEEE International Conference on Biomedical and Health Informatics (BHI)*, Pittsburgh, PA.

2023 Session Chair, "What does it mean to be AI-Ready?", National Institute of Health (*NIH)*

Bridge2AI Fall Meeting, Los Angeles, CA, US.

2022 Session Chair, "Implementing the Artificial Intelligence (AI) Workforce in Critical Care", *International Conference on Complex Acute Illness,* Virtual.

2022 Consensus Guideline Committee Member, "Artificial Intelligence in Acute Kidney Injury", *Acute Disease Quality Initiative (ADQI),* San Diego, CA, US.

2022 Sub-track Chair, "Machine learning for enabling Intelligent Critical Care", *44th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Glasgow, Scotland.

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.

National

2023 Panel Chair, "Artificial Intelligence in Biomedical Engineering Education", The Annual Meeting of the Biomedical Engineering Society (BMES), Seattle, WA, US, 2023.

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.

Regional

Organizer, The Inaugural AI4Health Meeting, Orlando, FL, US, 2023.

2023

2023 Organizer, The Inaugural UF IC3 Datathon, Gainesville, FL, US, 2023.

GRANT PROPOSAL REVIEW

- External Advisory Review Board Member, Clemson University, Division of Research, Clemson, 2022

- 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

- Swiss National Science Foundation (NSF), Switzerland

  2017 Sinergia Funding Instrument, Reviewer

- The Dutch Cancer Society (KWF Kankerbestrijding), Netherlands

  2019 External Reviewer

- Freiburg Institute for Advanced Studies (FRIAS), Germany

  2020 External Reviewer

JOURNAL REVIEWER & EDITORIAL ROLES

Editor

- Associate Editor, PLOS ONE, 2019-2020 (10+)
- Guest Editor: Special Issue on Data Mining and Mobile Sensing in Pervasive Environments, Elsevier's Pervasive and Mobile Computing, 2014 (15+)

Editorial Advisory Boards

- Editorial Review Board: Journal of Ambient Intelligence and Smart Environments (JAISE) 2014-2017 (15+)

Reviewer for Scholarly Journals

1. Nature, Digital Medicine, 2019 (2), 2020 (1), 2022 (2), 2023 (1)
2. Nature, Medicine, 2019 (1), 2023 (1)
3. Nature, Communications, 2019 (1), 2020 (2), 2022 (1)
4. Nature, Machine Intelligence, 2019 (1), 2022 (1)
5. Springer, Neurocritical Care, 2023 (1)
6. Journal of Medical Internet Research (JMIR), 2019 (1)
7. Intensive Care Medicine Experimental, 2019 (1)
8. IEEE Transaction on Mobile Computing, 2019 (1)
9. IEEE Access, 2019 (1), 2020 (3)
10. IEEE Transactions on Neural Systems & Rehabilitation Engineering (IEEE TNSRE), 2019 (1)
11. IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE), 2018 (2), 2019 (1)
12. IEEE Journal of Biomedical and Health Informatics (IEEE JBHI), 2014 (1), 2015 (1), 2018 (2), 2020 (2), 2022 (2)
13. Elsevier Current Opinion in Biomedical Engineering, 2018 (1)
14. JAMA Neurology, 2018 (1)
15. IEEE Transactions on Industrial Informatics (IEEE TII), 2018 (1)
16. IEEE Transactions on Human-Machine Systems (IEEE THMS), 2013 (1), 2014 (1), 2018 (1)
17. IEEE Transactions on Emerging Topics in Computing (IEEE TETC), 2013 (1), 2017 (1)
18. IEEE Transactions on Mobile Computing (IEEE TMC), 2017 (1)
19. PLOS ONE, PLOS Computational Biology, 2017 (1)
20. Statistical Analysis and Data Mining (SDM), 2014 (1)

21. ACM Transactions on Interactive Intelligent Systems (ACM TIIS), 2014 (1)
22. IBM Journal of Research and Development, 2014 (1)
23. ACM Transaction on Intelligent System and Technology (ACM TIST), 2012 (1)

CONFERENCE TECHNICAL PROGRAM COMMITTEES

International

1. Program Committee, Third Workshop of Applications on Medical AI (AMAI) at International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2024

2. Program Committee, Second Workshop on Applications of Medical AI (AMAI) at International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2023

3. Technical Program Committee, IEEE/ACM International Conference on Connected Health Applications, Systems, and Engineering Technologies (CHASE), 2023

4. Technical Program Committee, IEEE/ACM International Conference on Connected Health Applications, Systems, and Engineering Technologies (CHASE), 2022

5. Technical Program Committee, International Conference on Pervasive Health, 2020

6. Technical Program Committee, IEEE International Conference on Computers, Software and Applications (IEEE COMPSAC), 2019.

7. Technical Program Committee, ACM International Conference on Information and Knowledge Management (CIKM), 2013, 2015, 2016.

8. Technical Program Committee, IEEE International Conference on Data Mining (ICDM), 2012, 2015.

9. Technical Program Committee, IEEE International Conference on Tools with Artificial Intelligence (IEEE ICTAI), 2009-2015.

10. Technical Program Committee, IEEE International Conference on Big Data (Big Data 2015), Workshop on Deriving Value from BigData in HealthCare, 2015.

11. Technical Program Committee, ACM International Conference on Knowledge Discovery and Data Mining (ACM KDD), 2012, 2015.

12. Technical Program Committee, International Conference of the Association for the Advancement of Artificial Intelligence (AAAI), 2013, 2014.

13. Technical Program Committee, ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB), Workshop on Big Data in Life Sciences (BigLS), 2014.

14. Technical Program Committee, International Conference on Data Mining (IEEE ICDM), Workshop on Data Mining and Decision Analytics for Public Health and Wellness, 2014.

15. Technical Program Committee, International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI), 2014.

16. Technical Program Committee, International Work Conference on Ambient Assisted Living (IWAAL), 2014.

National

1. Machine Learning in Biomedical Applications, Annual Meeting of the Biomedical Engineering Society (BMES), 2020

Reviewer

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

OUTREACH & INCLUSION

2022	High School AI Summer Workshop
2022	High School Teacher AI Internship
2019	Artificial Intelligence in Medicine, Institute for Learning in Retirement at Oak Hammock
2019	Body Join 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

- NBC Nightly News, High-tech Hospital Uses Artificial Intelligence in Patient Care, 2023, Video
- IEEE vTools, Intelligent ICU for Patient Monitoring Using Pervasive Sensing and AI, Jan 20, 2022, Link
- UFHealth news, UF researchers' artificial intelligence platform accurately predicts surgical complications, Jun 1, 2022, Link
- Becker's Healthcare, Scientists developing AI tools for the ICU, May 31, 2022, Link
- Canadian Healthcare Technology, University of Florida presents at U of T AI conference, Mar 31, 2022, Link
- WAFB9, AI in the ICU and the Hospitals of the Future: Medicine's Next Big Thing?, May 30, 2022, Link
- KNOE8 news, AI in the ICU and the Hospitals of the Future: Medicine's Next Big Thing?, May 30, 2022, Link
- 69 news: Health Beat, AI in the ICU and the hospitals of the future, medicine's next big thing?, May 15, 2022, Link
- WQAD news, YOUR HEALTH: See the ICU of the future, Mar 16, 2022, Link
- Ivanhoe news, Artificial Intelligence in the ICU, Feb 23, 2022, Link
- WILX news, # Your Health: AI and the ICU, Feb 18, 2022, Link
- 16 News Now, Medical Moment: AI in the ICU, Feb 17, 2022, Link
- India education diary, University Of Florida: Artificial Intelligence In The Intensive Care Unit: UF Researchers Developing Novel Solutions, Dec 31, 2021, Link
- State of Reform news, AI in the ICU? University of Florida researchers develop model to promote better patient outcomes, Dec 6, 2021, Link
- 24x7, Researchers Develop Novel AI Solutions for the ICU, Nov 15, 2021, Link
- Mainstreet daily news, UF develops artificial intelligence in ICU, Nov 11, 2021, Link
- News wise, Artificial intelligence in the intensive care unit: UF researchers developing novel solutions, Nov 10, 2021, Link
- UFHealth news, Artificial intelligence in the intensive care unit: UF researchers developing novel solutions, Nov 10, 2021, Link
- Journal of Alzheimer's Disease (JAD), Digital Neuropsychological Assessment May Become Standard After COVID-19, Aug 5, 2021, Link
- IOS Press, A special collection of articles in JAD explores how digital technology measuring neuropsychological behavior has evolved as a consequence of the COVID-19 pandemic and may become a standard tool, Aug 5, 2021, Link
- The data exchange, Machine Learning in Healthcare, April 1, 2021, Link
- Communication of ACM (CACM), AI In the ICU, Aug 2020, Link
- Towards AI, NLP News Cypher | 05.31.20, May 31, 2020, Link
- 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. Link
- 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

Department Service

Summer 2021 – 2022	BME, Chair, Inclusion, Diversity, Equity, and Access (IDEA) Committee
Summer 2021 – 2022	BME, Faculty Advisor, Student Inclusion, Diversity, Equity, and Access (IDEA) 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

Herbert Wertheim College of Engineering (HWCOE) Service

Spring 2023 - Present	HWCOE, Chair, AI Affinity Research Group

Summer 2021 – 2022	HWCOE Representative, Inclusion, Diversity, Equity, and Access (IDEA)
Fall 2020 – Present	HWCOE, Committee Member, AI Committee
Fall 2020 – Present	HWCOE, Chair, AI Systems, MS Program
Fall 2021 – Present	HWCOE, Chair, Applied Data Science, MS Program
Spring 2020 – Fall 2020	HWCOE, College of Engineering, AI Task Force
Fall 2019, Fall 2020, Spring 2021	HWCOE, CISE, Faculty Search Committee

University Service

Fall 2023	Women Lead Program Pod Mentor
Summer 2020 – Present	UF, Research Computing Advisory Committee (RCAC) to represent the Wertheim College of Engineering
Fall 2019 - 2021	UF, Aging, Faculty Search Committee
Spring 2014, Spring 2016, Fall 2018, Spring 2024	UF, Commencement Marshal

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PROFESSIONAL MEMBERSHIP

Association for computing Machinery (ACM) Professional Member	2011 - Present
Institute of Electrical and Electronics Engineers (IEEE) *Senior Member*	2008 - Present
IEEE Computer Society	2008 - Present
IEEE Engineering in Medicine and Biology Society (EMBS)	2015 - Present
	2013 - Present

Biomedical Engineering Society (BMES)	
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
American Institute for Medical and Biological Engineering (AIMBE)	2020 - Present