

INDUSTRY EXPERIENCE

2017-2017	Apple Inc. Wireless Technologies Research & Development, Manager: Brent Ledvina
2015-2015	Apple Inc. Special Projects, Managers: Jerremy Holland & Meriko Borogove
2013-2013	Intel Corp. Thermal Power Validation, Manager: David Hayden
2012-2013	Cogcubed (Start-up) Research & Development, Manager: Kurt Roots
2010-2013	Mphasis Software Development , Manager: Joseph Miller

TEACHING EXPERIENCE

COURSEWORK

2015	Principles of Databases (CS 5707), University of Minnesota
2015	Introduction to Java Programming (CS 1103), University of Minnesota
2014	Principles of Databases (CS 5707), University of Minnesota
2013	Principles of Databases (CS 5707), University of Minnesota
2013	Introduction to C++ Programming (CS 1113), University of Minnesota

GRANTS

Completed 2020-2021	Americal Medical Informatics Association Women's Leadership Seed Grant
Completed 2018-2020	National Institute of Child Health and Human Development T32 Training Grant
Completed 2017-2018	University of Minnesota Doctoral Dissertation Fellowship
Completed 2016-2016	Qatar Foundation Research Fellowship

PATENTS

2020	Dynamic Activity Recommendation System (based on my dissertation work) U.S. Patent Application 16/556,647, filed March 5, 2020.
2020	Machine Learning Assisted Satellite Based Positioning (based on work with Apple) U.S. Patent Application 16/536,234, filed February 13, 2020.

HONOURS AND AWARDS

2021	Young Investigator Award <i>American Clinical Neurophysiology Society</i>
2019	Young Investigator Award <i>American Epilepsy Society</i>
2019	Women in AMIA Leadership Scholar <i>American Medical Informatics Association</i>
2018	National Honourable Mention <i>National Center for Women in Technology</i>
2017	Regional Collegiate Award <i>National Center for Women in Technology</i>
2017	Doctoral Dissertation Fellow <i>University of Minnesota</i>
2017	Big Data for Computational Medicine Fellow <i>National Institute of Health's Big Data to Knowledge Initiative</i>
2016	Grace Hopper Scholar <i>Qatar Computing Research Institute</i>
2015	International Leadership Changemaker <i>Institute of Electrical and Electronics Engineers - Women in Engineering</i>
2014	Graduate Research Cohort Award <i>Computing Research Association</i>
2012-2015	Grace Hopper Scholar <i>University of Minnesota</i>

SERVICE

University	Programming Committee, Harvard Biotechnology Club Founder, Computational Health Informatics Machine Learning Club Founder, Computational Health Informatics Postdoctoral Student Group
Community	National Center of Women in Technology, mentor and volunteer (2018-2020) Scientista, poster competition judge (2019) Aarohan NGO, teacher and volunteer (2012-2020)
Editorial	NPJ Digital Medicine Journal of Medical Informatics Research Journal of Healthcare Informatics Research Journal of Translational Engineering in Health and Medicine American Medical Informatics Association Frontiers in Artificial Intelligence, Big Data, Neuroinformatics
Professional Societies	Institute of Electrical and Electronics Engineers (IEEE) IEEE Women in Engineering IEEE Computer Society American Medical Informatics Association IEEE Signal Processing Society American Epilepsy Society American Clinical Neurophysiology Society

SELECTED INVITED TALKS

- 2021 Digital Phenotyping: Methodologies for Smartphones and Wearables
Harvard Health Data Science Symposium
- 2021 Quantifying Environmental Exposures from Smartphone Data
Joint Statistical Meeting
- 2021 Digital Phenotyping: Quantifying Human Health
Columbia University, Department of Biomedical Informatics Symposium
- 2020 Digital Biomarkers of Physiological Data Streams
*Massachusetts General Hospital, Clinical Data Animation Center
Boston Children's Hospital, Computational Health Informatics Program
Brigham Women's Hospital, Division of Sleep Medicine*
- 2019 A Digital Biomarker for Benign Childhood Epilepsy with Centrotemporal Spikes
American Clinical Neurophysiology Society's Annual Meeting
- 2019 Measuring Drug Effects on Brain Dynamics
American Epilepsy Society's Annual Meeting
- 2019 A Digital Biomarker for Benign Childhood Epilepsy with Centrotemporal Spikes
American Medical Informatics Association's Annual Symposium
- 2019 Measuring Drug Effects on Brain Dynamics
Boston Children's Hospital, Grand Rounds for the Division of Neurology
- 2018 The Future of Sleep Health: A Data-Driven Revolution in Sleep Science and Medicine
IEEE Engineering in Biology and Medicine
- 2018 Experiences as a Women in Technology
National Center for Women in Technology Board of Directors
- 2017 Computational Sleep Science
*Massachusetts Institute of Technology, Computer Science & Artificial Intelligence Lab
Massachusetts Institute of Technology - Lincoln Lab*
- 2017 The Science of Sweet Dreams
IEEE Computer Society Podcast
- 2017 Computational Sleep Science
University of Minnesota Open House
- 2016 Robust Automated Human Activity Recognition
IEEE Data Mining Human Activity Analysis Forum
- 2015 A Framework for Predicting Rx Response
MinneWIC
- 2014 Clinical Decision Making: Predicting Patient Response to Metformin
IEEE International Conference on Data Mining PhD Forum
- 2014 Leveraging EHR Data Using Predictive Modeling
Computing Research Association Graduate Research Cohort

PEER REVIEWED PUBLICATIONS

- P12 Measuring Real-Time Medication Effects from Electroencephalography
Aarti Sathyanarayana, Rime El Atrache, Michele Jackson, Sarah Cantley, Latania Reece, Claire Ufongene, Tobias Loddenkemper, Kenneth Mandl, William Bosl.
Submitted
- P11 Real-time Monitoring of the Brain's Propensity to Seize
Aarti Sathyanarayana, Rime El Atrache, Michele Jackson, Sarah Cantley, Latania Reece, Claire Ufongene, Tobias Loddenkemper, Kenneth Mandl, William Bosl.
Submitted
- P10 Measuring the Effects of Sleep on Epileptogenicity with Multiscale Entropy
Aarti Sathyanarayana, Rime El Atrache, Michele Jackson, Kenneth Mandl, Tobias Loddenkemper, William Bosl.
Clinical Neurophysiology (2021)
- P9 Nonlinear Analysis of Visually Normal EEGs to Differentiate Benign Childhood Epilepsy with Centrotemporal Spikes
Aarti Sathyanarayana, Rima El Atrache, Michele Jackson, Aliza Alter, Kenneth Mandl, Tobias Loddenkemper, William Bosl.
Scientific Reports (2020)
- P8 A Digital Biomarker for Benign Childhood Epilepsy with Centrotemporal Spikes
Aarti Sathyanarayana, Rima El Atrache, Michele Jackson, Kenneth Mandl, Tobias Loddenkemper, William Bosl.
Journal of Clinical Neurophysiology (2019)
- P7 Measuring Drug Effects on Brain Dynamics through Electroencephalography
Aarti Sathyanarayana, Rima El Atrache, Michele Jackson, Kenneth Mandl, Tobias Loddenkemper, William Bosl.
Proceedings of the American Epilepsy Society Annual Meeting (2019)
- P6 Benchmark on a Large Cohort for Sleep-wake Classification with Machine Learning Techniques.
Palotti, Joao, Raghvendra Mall, Michael Aupetit, Michael Rueschman, Meghna Singh,
Aarti Sathyanarayana, Shahrads Taheri, Luis Fernandez-Luque.
npj Digital Medicine (2019)
- P5 The Science of Sweet Dreams: Wearable Devices and Sleep Medicine
Aarti Sathyanarayana, Luis Fernandez-Luque, Jaideep Srivastava
IEEE Computer Magazine (2017)
- P4 Sleep Quality Prediction From Wearable Data Using Deep Learning
Aarti Sathyanarayana, Shafiq Joty, Luis Fernandez-Luque, Ferda Ofli, Jaideep Srivastava, Ahmed Elmagarmid, Teresa Arora, and Shahrads Taheri
JMIR mHealth and uHealth (2016)

PEER REVIEWED PUBLICATIONS (cont)

- P3 Robust Automated Human Activity Recognition
Aarti Sathyanarayana, Luis Fernandez-Luque, Ferda Ofli, Jaideep Srivastava, Ahmed Elmagarmid, Teresa Arora, and Shahrads Taheri
Proceedings of the IEEE International Conference on Data Mining Workshops (2016)
- P2 Clinical Decision Making: Predicting Patient Response to Prescription Medication
Aarti Sathyanarayana, Jyotishman Pathak, Rozalina McCoy, Santiago Romero-Brufau, Maryam Panaziahari, Jaideep Srivastava
Proceedings of the IEEE International Conference on Data Mining Workshops (2014)
- P1 Online Healthcare Management
Prasanna Desikan, **Aarti Sathyanarayana**, Jaideep Srivastava
Encyclopedia of Social Network Analysis and Mining (2014)