SAEED ABDULLAH

SAEED@PSU.EDU ● SAEEDABDULLAH.COM

2017 - Assistant Professor

College of Information Sciences and Technology Penn State University

EDUCATION

2011 - 2017 PhD, Department of Information Science, Cornell University

Committee: Tanzeem Choudhury (chair), Geri Gay and Deborah Estrin

Dissertation: Circadian Computing: Sensing and Stabilizing Biological Rhythms

2011 - 2014 Master of Science, Department of Information Science, Cornell University

Advisor: Tanzeem Choudhury

2009 - 2011 Master of Science, Computer Science, University of Vermont

Advisor: Xindong Wu

2003 – 2007 Bachelor of Science, Computer Science & Engineering, Bangladesh University of Engineering & Technology

Advisors: Dr Monirul Islam and Shohrab Hossain

Thesis: Evolution of Neural Network using Genetic Algorithm

PUBLICATIONS

JOURNAL ARTICLES

2022 J13 Financial technologies (FinTech) for mental health: The potential of objective financial data to better understand the relationships between financial behavior and mental health

Johnna Blair, Jeff Brozena, Mark Matthews, Thomas Richardson, and SAEED ABDULLAH

Frontiers in Psychiatry

DOI: 10.3389/fpsyt.2022.810057

J12 Alexa as an Active Listener: How Backchanneling Can Elicit Self-Disclosure and Promote User Experience

Eugene Cho, Nasim Motalebi, S. Shyam Sundar, and SAEED ABDULLAH Proceedings of the ACM on Human-Computer Interaction (PACM HCI)

DOI: 10.1145/3555164

J11 Overcoming Clinician Technophobia: What We Learned from Our Mass Exposure to Telehealth During the COVID-19 Pandemic

Andrew M. Sherrill, Christopher W. Wiese, SAEED ABDULLAH, and Rosa I. Arriaga

Journal of Technology in Behavioral Science

DOI: 10.1007/s41347-022-00273-3

J10 Understanding Design Approaches and Evaluation Methods in mHealth Apps Targeting Substance Use: Protocol for a Systematic Review

Sahiti Kunchay, Ashley N Linden-Carmichael, Stephanie T Lanza, and SAEED ABDULLAH

JMIR Research Protocols DOI: 10.2196/35749

2021 J09 A Query Conundrum: The Mental Challenges of Using a Cognitive Assistant

Torsten Maier, SAEED ABDULLAH, Christopher McComb, and Jessica Menold SN Computer Science

DOI: 10.1007/s42979-021-00621-9

2020 J08 "It Didn't Sound Good with My Cochlear Implants": Understanding the Challenges of Using Smart Assistants for Deaf and Hard of Hearing Users

Johnna Blair and SAEED ABDULLAH

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

DOI: 10.1145/3432194

2018 J07 Sensing Technologies for Monitoring Serious Mental Illnesses

SAEED ABDULLAH and Tanzeem Choudhury

IEEE Multimedia - Special Issue on New Signals in Multimedia

DOI: 10.1109/MMUL.2018.011921236

J06 Personalized stress monitoring: a smartphone-enabled system for quantification of salivary cortisol

Elizabeth Rey, Aadhar Jain, SAEED ABDULLAH, Tanzeem Choudhury, and David Erickson

Personal and Ubiquitous Computing DOI: 10.1007/s00779-018-1164-z

2017 Jo5 Semi-Automated Tracking: A Balanced Approach for Self-Monitoring Applications

Eun Kyoung Choe, SAEED ABDULLAH, Mashfiqui Rabbi, Edison Thomaz, Daniel A. Epstein, Matthew Kay, Felicia Cordeiro, Gregory D. Abowd, Tanzeem Choudhury, James Fogarty, Bongshin Lee, Mark Matthews, and Julie A. Kientz *IEEE Pervasive Computing*

DOI: 10.1109/MPRV.2017.18

J04 Development and Evaluation of a Smartphone-Based Measure of Social Rhythms 2016 for Bipolar Disorder

Mark Matthews, SAEED ABDULLAH, Geri Gay, and Tanzeem Choudhury Assessment (ASM)

DOI: 10.1177/1073191116656794

Automatic detection of social rhythms in bipolar disorder 2015 **J**03

SAEED ABDULLAH, Mark Matthews, Ellen Frank, Gavin Doherty, Geri Gay, and Tanzeem Choudhury

Journal of the American Medical Informatics Association (JAMIA)

DOI: 10.1093/jamia/ocv200

Mobile Behavioral Sensing for Outpatients and Inpatients With Schizophre-J02 nia

Dror Ben-Zeev, Rui Wang, SAEED ABDULLAH, Rachel Brian, Emily Scherer, Lisa Mistler, Marta Hauser, John Kane, Andrew Campbell, and Tanzeem Choudhury

Psychiatric Services

DOI: 10.1176/appi.ps.201500130

2014 Tracking Mental Well-Being: Balancing Rich Sensing and Patient Needs **J01**

Mark Matthews, SAEED ABDULLAH, Geri Gay, and Tanzeem Choudhury

IEEE Computer

DOI: 10.1109/MC.2014.107

CONFERENCE PAPERS

2022 C20 Privacy Sensitive Speech Analysis Using Federated Learning To Assess Depression

Suhas BN and SAEED ABDULLAH

The IEEE International Conference on Acoustics, Speech, & Signal Processing (ICASSP)

Acceptance rate: 45% • DOI: 10.1109/ICASSP43922.2022.9746827

Assessing effectiveness and interpretability of light behaviors in smart speak-2021 C19

Sahiti Kunchay and SAEED ABDULLAH

Conversational User Interfaces

Acceptance rate: 29% • DOI: 10.1145/3469595.3469610

Alexa as Coach: Leveraging Smart Speakers to Build Social Agents that Re-2020 C18 duce Public Speaking Anxiety

Jinping Wang, Hyun Yang, Ruosi Shao, SAEED ABDULLAH, and S. Shyam Sundar

CHI Conference on Human Factors in Computing Systems
Acceptance rate: 24.31% • DOI: 10.1145/3313831.3376561

★ C17 Will Deleting History Make Alexa More Trustworthy? Effects of Privacy and Content Customization on User Experience of Smart Speakers

Eugene Cho, S. Shyam Sundar, SAEED ABDULLAH, and Nasim Motalebi CHI Conference on Human Factors in Computing Systems

Acceptance rate: 24.31% • DOI: 10.1145/3313831.3376551 HONORABLE MENTION (TOP 5% OF SUBMISSIONS)

2018 C16 AlertnessScanner: What Do Your Pupils Tell About Your Alertness

Vincent W.-S. Tseng, SAEED ABDULLAH, Jean Costa, and Tanzeem Choudhury

Conference on human-computer interaction with mobile devices and services (Mobile HCI)

Acceptance rate: 24.5% • DOI: 10.1145/3229434.3229456

C15 Understanding Challenges in Prehabilitation for Patients with Multiple Chronic Conditions

Haining Zhu, Zachary Moffa, Xiying Wang, SAEED ABDULLAH, Juxihong Julaiti, and John Carroll

Pervasive Health

Acceptance rate: 24% • DOI: 10.1145/3240925.3240959

2016 C14 Cognitive Rhythms: Unobtrusive and Continuous Sensing of Alertness Using a Mobile Phone

SAEED ABDULLAH, Elizabeth Murnane, Mark Matthews, Matthew Kay, Julie Kientz, Geri Gay, and Tanzeem Choudhury

Conference on Pervasive and Ubiquitous Computing (UbiComp)

Acceptance rate: 23% • DOI: 10.1145/2971648.2971712

C13 Shining (Blue) Light on Creative Ability

SAEED ABDULLAH, Mary Czerwinski, Gloria Mark, and Paul Johns Conference on Pervasive and Ubiquitous Computing (UbiComp)

Acceptance rate: 23% • DOI: 10.1145/2971648.2971751

C12 CrossCheck: Toward passive sensing and detection of mental health changes in people with schizophrenia

Rui Wang, Min S.H. Aung, SAEED ABDULLAH, Dror Ben-Zeev, Rachel Brian, Andrew T Campbell, Tanzeem Choudhury, Marta Hauser, John Kane, Michael Merrill, Emily Scherer, and Vincent Wen-Sheng Tseng

Conference on Pervasive and Ubiquitous Computing (UbiComp)

Acceptance rate: 23% • DOI: 10.1145/2971648.2971740

★ C11 Mobile manifestations of alertness: Connecting biological rhythms with patterns of smartphone app use

Elizabeth Murnane, SAEED ABDULLAH, Mark Matthews, Matthew Kay, Julie Kientz, Geri Gay, Tanzeem Choudhury, Dan Cosley

Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile HCI)

Acceptance rate: 23.5% • DOI: 10.1145/2935334.2935383

BEST PAPER AWARD (TOP 2 PAPERS)

C10 Detecting and Capitalizing on Physiological Dimensions of Psychiatric Illness

Mark Matthews, SAEED ABDULLAH, Geri Gay, and Tanzeem Choudhury Conference on Physiological Computing Systems (PhyCS)

DOI: 10.5220/0005952600980104

2015 C09 Social (Media) Jet Lag: How Usage of Social Technology Can Modulate and Reflect Circadian Rhythms

Elizabeth L. Murnane, SAEED ABDULLAH, Mark Matthews, Tanzeem Choudhury, and Geri Gay

Conference on Pervasive and Ubiquitous Computing (UbiComp)

Acceptance rate: 23% • DOI: 10.1145/2750858.2807522

C08 In Situ Design for Mental Illness: Considering the Pathology of Bipolar Disorder in mHealth Design

Mark Matthews, Stephen Voida, SAEED ABDULLAH, Gavin Doherty, Tanzeem Choudhury, Sangha Im, and Geri Gay

Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile HCI)

Acceptance rate: 27% • DOI: 10.1145/2785830.2785866

C07 Collective Smile: Measuring Societal Happiness from Geolocated Images

SAEED ABDULLAH, Elizabeth L. Murnane, Jean MR Costa, and Tanzeem Choudhurv

Conference on Computer Supported Cooperative Work & Social Computing (CSCW) Acceptance rate: 28% • DOI: 10.1145/2675133.2675186

C06 MoodLight: Exploring Personal and Social Implications of Ambient Display of Biosensor Data

Jaime Snyder, Mark Matthews, Jacqueline Chien, Pamara F. Chang, Emily Sun, SAEED ABDULLAH, and Geri Gay

Conference on Computer Supported Cooperative Work & Social Computing (CSCW) Acceptance rate: 28% • DOI: 10.1145/2675133.2675191

2014 C05 Towards Circadian Computing: "early to bed and early to rise" makes some of us unhealthy and sleep deprived

SAEED ABDULLAH, Mark Matthews, Elizabeth L. Murnane, Geri Gay, and Tanzeem Choudhury

Conference on Pervasive and Ubiquitous Computing (UbiComp)
Acceptance rate: 20% • DOI: 10.1145/2632048.2632100

2012 C04 Towards Population Scale Activity Recognition: A Framework for Handling Data Diversity

SAEED ABDULLAH, Nicholas Lane, and Tanzeem Choudhury AAAI Conference on Artificial Intelligence

Acceptance rate: 26% • DOI: 10.5555/2900728.2900849

2011 C03 An Epidemic Model for News Spreading on Twitter

SAEED ABDULLAH and Xindong Wu

Conference on Tools with Artificial Intelligence (ICTAI)
Acceptance rate: 23% • DOI: 10.1109/ICTAI.2011.33

2009 C02 **Evolving Multilayer Neural Networks using Permutation free Encoding Technique**

Anupam Das and SAEED ABDULLAH
Conference on Artificial Intelligence (ICAI)

Acceptance rate: 23%

2008 CO1 Permutation Free Encoding Technique for Evolving Neural Networks

Anupam Das, Md. Shohrab Hossain, SAEED ABDULLAH, and Rashed Ul Islam

International Symposium on Neural Networks (ISNN)

Acceptance rate: 23% • DOI: 10.1007/978-3-540-87732-5 29

BOOK CHAPTERS

2021 B02 **Ubiquitous computing for person-environment research: Opportunities, considerations, and future directions**

Sumer S. Vaid, SAEED ABDULLAH, Edison Thomaz, and Gabriella M. Harari Measuring and Modeling Persons and Situations

DOI: 10.1016/B978-0-12-819200-9.00020-X

2017 B01 Circadian Computing: Sensing, Modeling, and Maintaining Biological Rhythms

SAEED ABDULLAH, Elizabeth L. Murnane, Mark Matthews, and Tanzeem Choudhury

Mobile Health: Sensors, Analytic Methods, and Applications edited by Jim Rehg, Susan Murphy, and Santosh Kumar DOI: 10.1007/978-3-319-51394-2_3

WORKSHOP PAPERS & ABSTRACTS

2022 W16 Comparing Two Delivery Modes Of A Supportive Care Platform For Metastatic Breast Cancer Patients

Brett Gordon, SAEED ABDULLAH, Shawna Doerksen, Abigail Lorenzo, Bethany Kanski, Ling Qiu, Kathryn Schmitz

Medicine & Science in Sports & Exercise

2021 W15 **PTSDialogue: Designing a Conversational Agent to Support Individuals with Post-Traumatic Stress Disorder**

Hee Jeong Han, Sanjana Mendu, Beth K Jaworski, Jason E Owen, and SAEED ABDULLAH

Mental health: Sensing & Intervention (MHSI) workshop at UbiComp DOI: 10.1145/3460418.3479332

W14 Voice Assistants for Speech Therapy

Ling Qiu and SAEED ABDULLAH

Mental health: Sensing & Intervention (MHSI) workshop at UbiComp

DOI: 10.1145/3460418.3479336

W13 Nurse AMIE: Using Smart Speakers to Provide Supportive Care Intervention for Women with Metastatic Breast Cancer

Ling Qiu, Bethany Kanski, Shawna Doerksen, Renate Winkels, Kathryn H.Schmitz, and SAEED ABDULLAH

Late-Breaking paper at the CHI Conference on Human Factors in Computing Systems

Acceptance rate: 39% • DOI: 10.1145/3411763.3451827

W12 Using Tweets to Assess Mental Well-being of Essential Workers During the COVID-19 Pandemic

Johnna Blair, Chi-Yang Hsu, Ling Qiu, Shih-Hong Huang, Ting-Hao (Kenneth) Huang, and SAEED ABDULLAH

Late-Breaking paper at the CHI Conference on Human Factors in Computing Systems

Acceptance rate: 39% • DOI: 10.1145/3411763.3451612

W11 Context-Specific Usability Measures for Voice Assistants

Sanjana Mendu, S. Shyam Sundar, and SAEED ABDULLAH "Let's Talk About CUIs: Putting Conversational User Interface Design Into Practice" workshop at the CHI Conference on Human Factors in Computing Systems

2020 W10 Opportunities for Collaborative Clinical Work: Predicting Relapse Onset in Bipolar Disorder from Online Behavior

Johnna Blair, Erika F.H. Saunders, Dahlia Mukherjee, and SAEED ABDULLAH *Pervasive Health*

DOI: 10.1145/3421937.3421947

W09 WatchOver: using Apple watches to assess and predict substance co-use in young adults

Sahiti Kunchay and SAEED ABDULLAH

Mental health: Sensing & Intervention (MHSI) workshop at UbiComp

DOI: 10.1145/3410530.3414373

2019 W08 Investigating Users' Perceptions of Light Behaviors in Smart-Speakers

Sahiti Kunchay, Shan Wang, and SAEED ABDULLAH

Conference on Computer Supported Cooperative Work & Social Computing (CSCW)

DOI: 10.1145/3311957.3359479

W07 Can Alexa be your Therapist? How Back-Channeling Transforms Smart-Speakers to be Active Listeners

Nasim Motalebi, Eugene Cho, S Shyam Sundar, and SAEED ABDULLAH Conference on Computer Supported Cooperative Work & Social Computing (CSCW) DOI: 10.1145/3311957.3359502

W06 Understanding the Needs and Challenges of Using Conversational Agents for Deaf Older Adults

Johnna Blair and SAEED ABDULLAH

Conference on Computer Supported Cooperative Work & Social Computing (CSCW)

DOI: 10.1145/3311957.3359487

2018 W05 Conversational agents to provide couple therapy for patients with PTSD

Nasim Motalebi and SAEED ABDULLAH

WellBeCoach: Smart Coaching Solutions for Health & Wellbeing workshop at Per-

vasive Health

DOI: 10.1145/3240925.3240933

W04 Supporting Constructive Mental Health Discourse in Social Media

Johnna Blair and SAEED ABDULLAH

Design4Diversity workshop at Pervasive Health

DOI: 10.1145/3240925.3240930

2016 W03 Assessing mental health issues on college campuses: preliminary findings from a pilot study

Vincent Wen-Sheng Tseng, SAEED ABDULLAH, Michael Merrill, Min Aung, Franziska Wittleder, and Tanzeem Choudhury

Mental health: Sensing & Intervention (MHSI) workshop at UbiComp

DOI: 10.1145/2968219.2968308

2015 W02 Towards circadian computing: a sensing & intervention framework for body clock friendly technology

SAEED ABDULLAH

Doctoral Colloquium at UbiComp DOI: 10.1145/2800835.2801657

W01 Biological rhythms and technology

Mark Matthews, Erin Carroll, SAEED ABDULLAH, Jaime Snyder, Matthew Kay, Tanzeem Choudhury, Geri Gay, Julie Kientz CHI Conference on Human Factors in Computing Systems

DOI: 10.1145/2559206.2559230

POSTERS & DEMOS

2015 P10 Automatic detection of social rhythms in bipolar disorder via smartphone

Ellen Frank, SAEED ABDULLAH, Mark Matthews, and Tanzeem Choudhury American College of Neuropsychopharmacology (ACNP)

P09 Circadian Computing: Towards bodyclock friendly technology

SAEED ABDULLAH

Human Computer Interaction Consortium Workshop (HCIC)

P08 SAINT: a scalable sensing and inference toolkit

Mashfiqui Rabbi, Thiago Caetano, Jean Costa, SAEED ABDULLAH, Mi Zhang, and Tanzeem Choudhury

Workshop on Mobile Computing Systems and Applications (ACM HotMobile)

2014 P07 Towards circadian computing: "early to bed and early to rise" makes some of us unhealthy and sleep deprived

SAEED ABDULLAH, Mark Matthews, Elizabeth L. Murnane, Geri Gay, and Tanzeem Choudhury

Intel Science and Technology Center for Pervasive Computing (ISTC-PC)

P06 Circadian Computing: Towards bodyclock friendly technology

SAEED ABDULLAH

Human Computer Interaction Consortium Workshop (HCIC)

2013 P05 **Developing a smartphone app to monitor mood, social rhythms, sleep and social activity: technology to support effective management of bipolar disorder**

Ellen Frank, Mark Matthews, Tanzeem Choudhury, Steve Voida, and SAEED ABDULLAH

American College of Neuropsychopharmacology (ACNP)

2013 P04 Light, color, affect, and stress

Jaime Snyder, Mark Matthews, SAEED ABDULLAH, Yohan Ko, and Geri Gay Society for Social Studies of Science (4S)

P03 MoodRhythm: Tracking and supporting daily rhythms

Stephen Voida, Mark Matthews, SAEED ABDULLAH, Mengxi Chrissie Xi, Matthew Green, Won Jun Jang, Donald Hu, John Weinrich, Prashama Patil, Mashfiqui Rabbi, Tauhidur Rahman, Geri Gay, Ellen Frank, and Tanzeem Choudhury Interactive demo at UbiComp

P02 Clockwise: inferring chronotype and daily patterns from smartphone use

SAEED ABDULLAH

Doctoral Colloquium at UbiComp

2012 P01 Towards population scale activity recognition: a framework for handling data diversity

SAEED ABDULLAH, Nicholas D. Lane, and Tanzeem Choudhury *Intel Science and Technology Center for Pervasive Computing (ISTC-PC)*

TEACHING

2021 - HCDD 340: Human-Centered Design for Mobile Computing

College of Information Sciences and Technology, Penn State
Co-designed curriculum, developed syllabus, designed instruction material

2018 - IST 525: Computer Supported Cooperative Work (CSCW)

College of Information Sciences and Technology, Penn State Developed syllabus, designed instruction material

2019 - 2021 IST 331: Foundations of Human-Centered Design

College of Information Sciences and Technology, Penn State Developed syllabus, designed instruction material

2017 - 2018 IST 597: Computational Health: Sensing and Intervention Design

College of Information Sciences and Technology, Penn State Developed syllabus, designed instruction material

2014 - 2016 Info 4120/6120: Ubiquitous Computing

Department of Information Science, Cornell University. Instructor: Tanzeem Choud-

Delivered a guest lecture on Circadian Computing and led a lab session on mobile programming

Spring, 2012 CS/Info 2300: Intermediate design and programming for the web

Department of Information Science, Cornell University. Instructor: Carl Lagoze. Led lab teaching sections and covered some lectures

Fall, 2012 CS 4300: Information retrieval

Department of Information Science, Cornell University. Instructor: Paul Ginsberg. Tutored students and graded assignments

Spring, 2011 CS 224: Algorithm design & analysis

*University of Vermont. Instructor: Byung Lee*Covered some lectures, tutored students, and marked assignments

Fall, 2010 CS 32: Puzzles, games and algorithms

University of Vermont. Instructor: Robert Snapp Led lab sessions and marked assignments

CS 204: Database system

*University of Vermont. Instructor: Byung Lee*Covered some lectures, tutored students, and marked assignments

Spring, 2010 CS 222: Computer architecture

University of Vermont. Instructor: Alan Ling Tutored students and marked assignments

CS 195: Computer science for geo-spatial technologies

Instructor: Alison Pechenick Developed and marked assignments

Fall, 2009 CS 201: Operating systems

*University of Vermont. Instructor: Alan Ling*Covered some lectures, tutored students, and marked assignments

CS 243: Theory of computation

University of Vermont. Instructor: Alan Ling Tutored students and marked assignments

RESEARCH SUPPORT

2022 – 2023 Financial Wellbeing for Individuals Living with Mental Illnesses: Toward a Privacy-preserving and Data-driven Intervention Platform

Principal Investigator

Social Science Research Institute (SSRI), Penn State (\$75,000)

2019 - 2023 CRII:SCH: Designing for Supportive Accountability: Using Conversational Agents to Sustain Patient Engagement in PTSD

Principal Investigator

National Science Foundation (\$174, 818)

2019 - 2021 Nurse AMIE (Addressing Metastatic Individuals Everyday)

Co-Investigator

American Institute for Cancer Research (\$165,000)

2018 - 2021 A Real-Time Mindfulness Intervention to Control Pain: Delivery Through a Conversational Agent

Principal Investigator

Social Science Research Institute (SSRI), Penn State (\$20, 000)

2018 - 2021 Predicting Relapse Onset in Bipolar Disorder from Online Behavioral Data

Principal Investigator

Institute for CyberScience (ICS), Penn State (\$37, 500)

2019 – 2020 Watch Over: Using Apple Watches to Assess and Predict Substance Co-use in Young Adults

Principal Investigator

College of Information Sciences and Technology, Penn State (\$53, 260)

2018 - 2019 Talking to Machines: Virtual Conversational Agents for Effective Treatment Delivery in PTSD

Principal Investigator

College of Information Sciences and Technology, Penn State (\$56, 310)

AWARDS

2020 Honorable Mention

CHI Conference on Human Factors in Computing Systems

For the paper: "Will Deleting History Make Alexa More Trustworthy? Effects of Privacy and Content Customization on User Experience of Smart Speakers"

Distinguished Master's Thesis Award

Graduate School, Penn State

Awarded to Shan Wang (my advisee) for "excellence in master's level thesis research". Her thesis title is: "Effects of Prompt Humor Level on Behavioral Intention and Perceived Interruption: An Online Survey Study".

2019 Junior Faculty Excellence Award in Research

College of Information Sciences and Technology, Penn State

This award recognizes "innovative and outstanding research results, contributed to breakthrough and high impact research, or demonstrated the potential to solve challenging research problems".

2018 Tronzo Medical Informatics Endowment

College of Information Sciences and Technology, Penn State

The endowment supports research on issues and technologies related to medical informatics.

2016 - Special recognition for outstanding reviews

CHI 2021

CHI 2020

IMWUT (February 2020)

IMWUT (November 2019)

IMWUT (May 2017 round)

UbiComp 2016

2016 Best Paper Award

Conference on human-computer interaction with mobile devices and services (Mobile HCI)

For the paper: Mobile manifestations of alertness: Connecting biological rhythms with patterns of smartphone app use.

Agile Research Grant

Robert Wood Johnson Foundation

Our project focusing on circadian rhythms and cognitive performance was selected as one of the five recipients in the Agile Research Project competition.

2013 \$100,000 Heritage Open mHealth Challenge winner

Heritage Provider Network, Open mHealth, and the University of California, Los Angeles

Our MoodRhythm project focusing on bipolar disorder won the Heritage Open mHealth Challenge.

INVITED TALKS

2021 **Talking to Machines: Leveraging Voice Interfaces for Intervention Delivery**Center for Behavioral Health and Technology, University of Virginia

"It Didn't Sound Good with My Cochlear Implants": Understanding the Challenges of Using Smart Assistants for Deaf and Hard of Hearing Users
Johnna Blair and SAEED ABDULLAH
National Educational Conference, Canadian Hard of Hearing Association

2020 Designing for Supportive Accountability: Using Conversational Agents to Sustain Patient Engagement in Post-traumatic stress disorder (PTSD)

Advancing Health through Science Smart and Connected Health (SCH) Principal Investigator Meeting, National Science Foundation

2019 Computational Health: Using HCI & Data Science Methods to Improve Health and Wellbeing

Dean's Advisory Board, College of Information Sciences and Technology

"Alexa, I am in Pain!": A Real-Time Mindfulness Intervention for Chronic Pain Management Using Conversational Agents

Prevention Research Center (PRC) Day, College of Health and Human Development, Penn State

2018 Your phone usage reveals a lot about you: Inferring sleep and circadian disruptions from phone use patterns

QuantDev Brownbag Series, College of Health and Human Development, Penn State

Talking to Machines: Conversational Agents for Mental Health CareColloquium at UT Austin iSchool

Talking to Machines: Conversational Agents for Mental Health Care *Grand Rounds Series, Department of Psychology at Penn State*

2016 Passive sensing of circadian rhythms for individualized models of cognitive performance

Health Data Exploration Project Agile Grant Series

2015 Cognitive rhythms: unobtrusive and continuous sensing of alertness using a mobile phone

Intel Science & Technology Center for Pervasive Computing (ISTC-PC)

2014 Supporting individuals with bipolar disorder to establish stable daily routines

MIT & Cornell hacking-medicine hackathon

PROFESSIONAL EXPERIENCE

2012 - 2017 Graduate Research Assistant

Department of Information Science, Cornell University. Supervisor: Tanzeem Choudhury

Fall, 2015 Research Intern

Microsoft Research. Supervisor: Mary Czerwinski Designed and developed novel system for improving creative ability

2011 - 2012 Graduate Teaching Assistant

Department of Information Science, Cornell University

2009 - 2011 Graduate Teaching Assistant

University of Vermont

2008 – 2009 **Software Developer**

AfriGIS Ltd

Developing search engine with special focus on geographic relevance

2008 Software Developer

Google Summer of Code

Enhancing a Just-In-Time (JIT) compiler for Java to provide instruction code selection and emission for array manipulation bytecodes

SERVICE

EDITORIAL RESPONSIBILITIES

2022 Topic Editor

Frontiers Research Topic: "Factors Influencing User Engagement with Digital Mental Health Interventions"

2021 Topic Editor

Frontiers Research Topic: "Quantitative Modeling of Psychopathology Using Passively Collected Data"

2017 - 2020 Associate Editor

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

2018 Co-Editor

Special Issue of JMIR on Computing and Mental Health

CONFERENCE & WORKSHOP ORGANIZER

2022 Award & Recognition Committee member

Computer Supported Cooperative Work & Social Computing (CSCW)

2021 Scholarship co-chair

Conference on Pervasive and Ubiquitous Computing (UbiComp)

2016 - Workshop on "Mental health and well-being: Sensing and intervention"

Conference on Pervasive and Ubiquitous Computing (UbiComp)

2019 **Publicity co-chair**

Conference on Pervasive and Ubiquitous Computing (UbiComp)

2014 Workshop on "Biological rhythms and technology"

CHI Conference on Human Factors in Computing Systems

PROGRAM COMMITTEE MEMBER

2016 - Workshop on "Mental health and well-being: Sensing and intervention"

Conference on Pervasive and Ubiquitous Computing (UbiComp)

2017 - 2020 Pervasive Health

EAI International Conference on Pervasive Computing Technologies for Healthcare

2015 – 2018 International Conference on Digital Health

2017 Workshop on "Tools and Algorithms for Mental Health and Wellbeing, Pain, and Distress (MHWPD)"

Affective Computing and Intelligent Interaction (ACII)

ACADEMIC SERVICES

2022 -	Faculty Hiring Committee (Human-Centered Artificial Intelligence track) College of Information Sciences and Technology, Penn State
2021 - 2022	Chair of the Faculty Hiring Committee (accessibility track) College of Information Sciences and Technology, Penn State
2020 -	Academic Integrity Committee College of Information Sciences and Technology, Penn State
2019 -	Advisory Board Member Penn State SELF (Student Engagement, Learning, and Flourishing) project
2017 -	Governing Board Member Human Computer Interaction Consortium (HCIC)
2017 -	Faculty advisory committee focusing on IT support for research College of Information Sciences and Technology, Penn State
2018 - 2020	Faculty Hiring Committee (HCD track) College of Information Sciences and Technology, Penn State
	Graduate Recruiting Committee College of Information Sciences and Technology, Penn State
2020	Application Reviewer Nittany AI Challenge, Penn State
2017	Application Reviewer Schreyer Honors College, Penn State
	Applicant Interviewer Millennium Scholars program, Penn State
2015	Student Volunteer Program committee meeting for Conference on Pervasive and Ubiquitous Computing (UbiComp)

2013 – 2015 **Student Representative**Faculty hiring committee, Department of Information Science, Cornell University

2011 - 2013 Colloquium Organizer

Department of Information Science, Cornell University

2011 - 2012 Computing facilities support

Department of Information Science, Cornell University