Education

2011–(2017) PhD, Information Science, Cornell University (ABD)

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

2011–2014 Master of Science, Information Science, Cornell University

Advisor: Tanzeem Choudhury

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

Advisor: Xindong Wu

GPA: 4.00

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

GPA: 3.79

Awards

2016 Best paper award in MobileHCI

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

2016 Agile research grant from 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

Our MoodRhythm project focusing on Bipolar Disorder won Heritage Open mHealth Challenge co-sponsored by Heritage Provider Network, Open mHealth, and the University of California, Los Angeles.

Publications

JOURNAL ARTICLES

2016 J05 Development and evaluation of a smartphone-based measure of social rhythms for bipolar disorder

Mark Matthews, *Saeed Abdullah*, Geri Gay, and Tanzeem Choudhury. Assessment (ASM), 23(4), 472–483.

- 2016 J04 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 (in press).
- 2015 J03 Automatic detection of social rhythms in bipolar disorder

 Saeed Abdullah, Mark Matthews, Ellen Frank, Gavin Doherty, Geri Gay, and
 Tanzeem Choudhury.

 Journal of the American Medical Informatics Association (JAMIA), 23(3), 538–543.
 - Mobile behavioral sensing for outpatients and inpatients with schizophrenia. Dror Ben-Zeev, Rui Wang, *Saeed Abdullah*, Rachel Brian, Emily Scherer, Lisa Mistler, Marta Hauser, John Kane, Andrew Campbell, and Tanzeem Choudhury. Psychiatric Services, 67(5), 558–561.
- 2014 J01 Tracking mental well-being: balancing rich sensing and patient needs Mark Matthews, Saeed Abdullah, Geri Gay, and Tanzeem Choudhury. IEEE Computer, 47(4), 36–43
 - CONFERENCE PAPERS

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.

UbiComp: Conference on Pervasive and Ubiquitous Computing.

Acceptance rate: 23%

C13 Shining (blue) light on creative ability

Saeed Abdullah, Mary Czerwinski, Gloria Mark, and Paul Johns.

UbiComp: Conference on Pervasive and Ubiquitous Computing.

Acceptance rate: 23%

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.

UbiComp: Conference on Pervasive and Ubiquitous Computing.

Acceptance rate: 23%

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.

MobileHCI: Conference on human-computer interaction with mobile devices and services

Acceptance rate: 23.5%.

Best paper award (top 2 papers)

2016 C10 Detecting and capitalizing on physiological dimensions of psychiatric illness.

Mark Matthews, Saeed Abdullah, Geri Gay, and Tanzeem Choudhury.

PhyCS: Conference on Physiological Computing Systems

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 Gav.

UbiComp: Conference on Pervasive and Ubiquitous Computing.

Acceptance rate: 23%

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.

MobileHCI: Conference on human-computer interaction with mobile devices and services

Acceptance rate: 27%

C07 Collective smile: measuring societal happiness from geolocated images

Saeed Abdullah, Elizabeth L. Murnane, Jean MR Costa, and Tanzeem Choudhury. CSCW: Conference on Computer Supported Cooperative Work & Social Computing

Acceptance rate: 28%

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.

CSCW: Conference on Computer Supported Cooperative Work & Social Computing

Acceptance rate: 28%

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.

UbiComp: Conference on Pervasive and Ubiquitous Computing.

Acceptance rate: 20%

2012 C04 Towards population scale activity recognition: a scalable framework for handling data diversity

Saeed Abdullah, Nicholas Lane, and Tanzeem Choudhury.

AAAI: Conference on advancement of artificial intelligence

Acceptance rate: 26%

2011	C03	An epidemic model for news spreading on twitter Saeed Abdullah, and Xindong Wu. ICTAI: Conference on tools with artificial intelligence Acceptance rate: 23%
2009	C02	Evolving multilayer neural networks using permutation free encoding technique Anupam Das and Saeed Abdullah. ICAI: Conference on artificial intelligence Acceptance rate: 23%
2008	C01	Permutation free encoding technique for evolving Neural networks Anupam Das, Md. Shohrab Hossain, Saeed Abdullah, and Rashed Ul Islam. ISNN: Symposium on neural networks Acceptance rate: 23%
•		BOOK CHAPTER
2016	В01	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. Springer International Publishing
		Workshop papers and abstracts
2016	W04	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. UbiComp workshop on mental health
2015	W03	Towards circadian computing: a sensing & intervention framework for body clock friendly technology Saeed Abdullah. UbiComp Doctoral Colloquium
2013	W02	Light, Color, Affect, and Stress Jaime Snyder, Mark Matthews, <i>Saeed Abdullah</i> , Yohan Ko, and Geri Gay. 4S: Society for Social Studies of Science
	W01	Clockwise: inferring chronotype and daily patterns from smartphone use Saeed Abdullah. UbiComp Doctoral Colloquium
-		Posters and demos
2015	P07	Automatic detection of social rhythms in bipolar disorder via smartphone

Ellen Frank, *Saeed Abdullah*, Mark Matthews, and Tanzeem Choudhury. American College of Neuropsychopharmacology (ACNP)

2015 P06 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 P05 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)

P04 Circadian computing: towards bodyclock friendly technology

Saeed Abdullah.

HCIC: Human Computer Interaction Consortium Workshop

2013 P03 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)

P02 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 in 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)

Invited talks

2016 Health Data Exploration Project Agile Grant Series

Title: Passive sensing of circadian rhythms for individualized models of cognitive performance

2015 Intel Science & Technology Center for Pervasive Computing (ISTC-PC)

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

2014 MIT & Cornell hacking-medicine hackathon

Title: Supporting individuals with bipolar disorder to establish stable daily routines

Professional experience

2014–2016	Graduate research assistant at Cornell University Funded by Intel Science & Technology Center for Pervasive Computing (ISTC-PC) Supervisor: Tanzeem Choudhury Exploring pervasive technology that supports our circadian rhythms
2012–2014	Funded by Intelligence Advanced Research Projects Activity (IARPA) Supervisor: Tanzeem Choudhury Novel image based large scale sentiment analysis from social media
Fall, 2015	Research intern, Microsoft Research Redmond Supervisor: Mary Czerwinski Designed and developed novel system for improving creative ability
2011–2012	Graduate teaching assistant at Cornell University
2009–2011	Graduate teaching assistant at 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.
	Teaching experience
2014–2016	Info 4120/6120: Ubiquitous Computing, Cornell University Instructor: Tanzeem Choudhury Guest lecture on circadian computing and lab session on mobile programming
Spring, 2012	CS/Info 2300: Intermediate design and programming for the web, Cornell University Instructor: Carl Lagoze. Students: 120 Led lab teaching sections, covered some lectures
Fall, 2012	CS 4300: Information retrieval, Cornell University Instructor: Paul Ginsberg. Students: 122 Tutored students, marked assignments and reports
Spring, 2011	CS 224: Algorithm Design & Analysis, University of Vermont Instructor: Byung Lee Covered some lectures, tutored students, marked assignments
Fall, 2010	CS 32: Puzzles, Games and Algorithms, University of Vermont Instructor: Robert Snapp

I ed lab 9	sessions	marked	assignments

Fall, 2010 CS 204: Database System, University of Vermont

Instructor: Byung Lee

Covered some lectures, tutored students, marked assignments

Spring, 2010 CS 222: Computer Architecture, University of Vermont

Instructor: Alan Ling

Tutored students, marked assignments

Spring, 2010 CS 195: Computer science for Geo-spatial technologies, University of Vermont

Instructor: Alison Pechenick

Developed and marked assignments

Fall, 2009 CS 201: Operating Systems, University of Vermont

Instructor: Alan Ling

Covered some lectures, tutored students, marked assignments

Fall, 2009 CS 243: Theory of Computation, University of Vermont

Instructor: Alan Ling

Tutored students, marked assignments

Service

WORKSHOP ORGANIZER

2016 Mental health and well-being: sensing and intervention

Saeed Abdullah, Varun Mishra, Andrew T. Campbell, Gregory D. Abowd, and Tanzeem Choudhury.

Workshop at UbiComp

2014 Biological rhythms and technology

Mark Matthews, Erin Carroll, Saeed Abdullah, Jaime Snyder, Matthew Kay,

Tanzeem Choudhury, Geri Gay, and Julie A. Kientz

Workshop at CHI

STUDENT VOLUNTEER

2015 UbiComp Program Committee Meeting

PROGRAM COMMITTEE MEMBER

2015 International Conference on Digital Health

STUDENT REPRESENTATIVE AT CORNELL UNIVERSITY

2013-2015 Faculty hiring committee

2011–2012	Computing facilities support
2011–2013	Colloquium organizer
	CONFERENCE REVIEWER
2014–2016	UbiComp
2014–2016	СНІ
2016	CSCW
2015	PervasiveHealth
2015	International conference on digital health
	JOURNAL REVIEWER
2016	IEEE computer
2016	International journal of human-computer interaction
2015	Behavior research methods journal
2013	IEEE transactions on knowledge and data engineering