

# SAEED ABDULLAH

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## RESEARCH INTEREST

My work, on a broader scale, focuses on providing technology mediated care in the context of mental health. In this new model of care, the goal is to detect early warning signs and provide intervention even before the relapse happens — moving from reactive to preemptive care.

Towards that, I have designed, developed and deployed smartphone based sensing systems for **Bipolar** and **Schizophrenic** patients. I am also interested in enabling **circadian stability** in general population.

## EDUCATION

<i>PhD Student</i>	2011 – Information Science Committee: Tanzeem Choudhury (Chair), Geri Gay and Deborah Estrin	Cornell University, Ithaca, NY
<i>Master of Science</i>	2011 – 2014 Information Science GPA: 3.86 · Adviser: Tanzeem Choudhury	Cornell University, Ithaca, NY
<i>Master of Science</i>	2009 – 2011 Computer Science GPA: 4.00 · Adviser: Xindong Wu Worked on modeling information diffusion on Twitter using mathematical epidemiology theories.	University of Vermont, Burlington, VT
<i>Bachelor of Science</i>	2003 – 2007 Bangladesh University of Engineering & Technology (BUET) Computer Science & Engineering GPA: 3.79 · Advisers: Dr Monirul Islam and Shohrab Hossain Thesis Topic: Evolution of Neural Network using Genetic Algorithm	BUET, Dhaka

## WORK EXPERIENCE

<i>Graduate Researcher</i>	2012 – Designing, developing and deploying smartphone based sensing systems in the context of mental health.	CORNELL UNIVERSITY
<i>Graduate Teaching Assistant</i>	2011 – 2012 Teaching and grading for CS4300: <i>Information Retrieval</i> and CS/INFO 2300: <i>Intermediate Design and Programming for the Web</i> . Guest lecture on special topics for INFO 4120/6120: <i>Ubiquitous Computing</i> .	CORNELL UNIVERSITY
<i>Graduate Teaching Assistant</i>	2009 – 2011 Teaching and grading for CS 201: <i>Operating Systems</i> , CS 32: <i>Puzzles, Games &amp; Algorithms</i> , CS 222: <i>Computer Architecture</i> , CS224: <i>Algorithm Design and Analysis</i> , CS 195: <i>Computer Science for Geo-spatial Technologies</i> , CS 204: <i>Database Systems</i>	UNIVERSITY OF VERMONT

<i>Software Developer</i>	2008 – 2009	AFRIGIS LTD, Dhaka, Bangladesh
	Developing search engine with special focus on geographic relevance for subscribers of Vodacom, South Africa.	
<i>Google Summer of Code</i>	2008 Summer	GOOGLE SUMMER OF CODE
	Worked on a Just-In-Time (JIT) compiler for Java to provide instruction selection and code emission for array manipulation bytecodes.	
SERVICE		
<i>Student Representative</i>	2011 –	Cornell University
	Faculty Hiring Committee (2013 – Present) Computing Facilities Support (2011 – 2013) Colloquium Organizer (2011 – 2012)	
<i>Reviewer</i>	CHI (2014 – 2015) UbiComp (2014 – 2015) PervasiveHealth, 2015 IEEE Transactions on Knowledge and Data Engineering Behavior Research Methods Journal	
<i>Organizer</i>	PROGRAM COMMITTEE MEMBER 5th International Conference on Digital Health, 2015	
	WORKSHOP ORGANIZER Biological Rhythms and Technology, CHI, 2014	
AWARDS		
<i>Heritage Open mHealth Challenge Winner</i>	2013 Summer	\$100,000 Heritage Open mHealth Challenge
	Our MoodRhythm project focusing on Bipolar patients won Heritage Open mHealth Challenge co-sponsored by Heritage Provider Network, Open mHealth, and the University of California, Los Angeles.	
PRESENTATIONS		
<i>ISTC-PC</i>	2014 Summer	ISTC-PC
	Intel Science and Technology Center for Pervasive Computing (ISTC-PC) Presentation title: Towards Circadian Computing: “Early to Bed and Early to Rise” Makes Some of Us Unhealthy and Sleep Deprived	
<i>HCIC</i>	2014 Summer	Human Computer Interaction Consortium
	Human Computer Interaction Consortium (HCIC) Boaster title: Circadian computing: Towards bodyclock friendly technology	
<i>Health Hackathon hosted by WebMD</i>	2014 Spring	MIT & Cornell Hacking-Medicine Hackathon
	Selected to participate in MIT & Cornell Health focused Hackathon hosted by WebMD. Worked on Smartphone app that supports individuals with Bipolar Disorder to establish daily routine	

## PUBLICATIONS

- 2015      Saeed Abdullah, Elizabeth L. Murnane, Jean MR Costa, and Tanzeem Choudhury. COLLECTIVE SMILE: MEASURING SOCIETAL HAPPINESS FROM GEOLOCATED IMAGES. In Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing, pp. 361-374. ACM, 2015.
- Jaime Snyder, Mark Matthews, Jacqueline Chien, Pamara F. Chang, Emily Sun, Saeed Abdullah, and Geri Gay. MOODLIGHT: EXPLORING PERSONAL AND SOCIAL IMPLICATIONS OF AMBIENT DISPLAY OF BIOSENSOR DATA. In Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing, pp. 143-153. ACM, 2015.
- 2014      Saeed Abdullah, Mark Matthews, Elizabeth L. Murnane, Geri Gay, and Tanzeem Choudhury. TOWARDS CIRCADIAN COMPUTING: EARLY TO BED AND EARLY TO RISE MAKES SOME OF US UNHEALTHY AND SLEEP DEPRIVED. The 2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2014).
- Mark Matthews, Saeed Abdullah, Geri Gay, and Tanzeem Choudhury. TRACKING MENTAL WELL-BEING: BALANCING RICH SENSING AND PATIENT NEEDS. Computer, 47.4(2014). IEEE Computer Society.
- 2013      Saeed Abdullah. CLOCKWISE: INFERRING CHRONOTYPE AND DAILY PATTERNS FROM SMARTPHONE USE. Extended abstract presented in Doctoral School, UbiComp 2013.
- Snyder, J., Matthew, M., Abdullah, S., Chien, J., Sun, E., Gay, G. LIGHT, COLOR, AFFECT, AND STRESS. Annual Meeting of the Society for Social Studies of Science (4S), San Diego, CA, October 2013.
- Frank, E, Matthews, M., Choudhury, T., Volda, S. & Abdullah, S. DEVELOPING A SMART PHONE APP TO MONITOR MOOD, SOCIAL RHYTHMS, SLEEP AND SOCIAL ACTIVITY: TECHNOLOGY TO SUPPORT EFFECTIVE MANAGEMENT OF BIPOLAR DISORDER. Accepted Poster to American College of Neuropsychopharmacology.
- Volda, S., Matthews, M., Abdullah, S., Chi, M., Green, M., Jang, W.J., Hu, D., Weinrich, J., Patil, P., Rabbi, M., Rahman, T., Gay, G., Frank, E. & Choudhury, T. MOODRHYTHM: TRACKING AND SUPPORTING DAILY RHYTHMS. Interactive demonstration presented UbiComp, 2013.
- 2012      Saeed Abdullah, Nicholas Lane, and Tanzeem Choudhury. TOWARDS POPULATION SCALE ACTIVITY RECOGNITION: A SCALABLE FRAMEWORK FOR HANDLING DATA DIVERSITY. Appears in the Proceedings of AAAI 2012.
- 2011      Saeed Abdullah and Xindong Wu. AN EPIDEMIC MODEL FOR NEWS SPREADING ON TWITTER. 23rd IEEE International Conference on Tools with Artificial Intelligence (ICTAI), 2011.

- 2009 Anupam Das and Saeed Abdullah. EVOLVING MULTILAYER NEURAL NETWORKS USING PERMUTATION FREE ENCODING TECHNIQUE. In Proceedings of the 2009 International Conference on Artificial Intelligence (ICAI, 2009)
- 2008 Anupam Das, Md. Shohrab Hossain, Saeed Abdullah, and Rashed UI Islam. PERMUTATION FREE ENCODING TECHNIQUE FOR EVOLVING NEURAL NETWORKS. In Proceedings of the 5th international symposium on Neural Networks: Advances in Neural Networks (ISNN, 2008)