

## ARPITA BHATTACHARYA

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### RESEARCH INTEREST

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Designing technology for health, Behavior Change, Human Computer Interaction

### EDUCATION

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#### University of Washington

Fourth year Ph.D. candidate in Human Centered Design and Engineering (HCDE)  
*Advisors:* Dr. Julie Kientz, Dr. Sean Munson

Seattle, WA  
*Jun '15 - current*

#### Georgia Institute of Technology, College of Computing

Master's in Computer Science (MS CS).  
*Specialization:* Human Computer Interaction (HCI).

Atlanta, GA  
*Aug '13 - May '15*

#### Mumbai University

Bachelor's in Computer Engineering

Mumbai, India  
*Jul '09 - Jul '13*

### RESEARCH EXPERIENCE

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- **University of Washington**, Graduate Research Assistant *Jun '15 – current*  
PI: Julie A. Kientz, Sean A. Munson
  - Designing to support teenagers with stress management using Asynchronous Remote Communication (ARC) method by enrolling teens in private online groups.
  - Designing to support quitting smoking using self-experimentation tracking.PI: Jin Ha Lee, Julie A. Kientz, Jason Yip, Cecilia Aragon
  - Understanding online and offline social interactions of players of Pokémon GO.
- **Georgia Institute of Technology**, Graduate Research Assistant *Aug '14 - May '15*  
PI: Agata Rozga, Gregory D. Abowd, Brian Magerko
  - Design, development, and evaluation of Kinect based games for supporting collaboration and social interaction in children with autism (funded by Graphics, Visualization, and Usability (GVU) Seed grant).
- **Atlanta Veteran's Affairs Medical Center (VAMC)**, Volunteer Research Associate *Jan '14- May '15*  
PI: Erica Duncan, M.D.
  - Data analysis to evaluate impact of Oxytocin drug on social behavior of outpatients with schizophrenia.

### PUBLICATIONS

#### Peer reviewed

- [1] *Designing a Reclamation of Body and Health: Cancer Survivor Tattoos as Coping Ritual*. Jordan Eschler, [Arpita Bhattacharya](#), Wanda Pratt. To appear in CHI 2018, Montreal, Canada. **(Best Paper Honorable mention, top 5%)**
- [2] *Understanding Pivotal Experiences in Behavior Change for the Design of Technologies for Personal Wellbeing*. [Arpita Bhattacharya](#), Samantha Kolovson, Yi-Chen Sung, Mike Eacker, Michael Chen, Sean A. Munson, Julie A. Kientz. *In* Journal of Biomedical Informatics. March 2018.

- [3] *Values, Identity, and Social Translucence: Neurodiverse Student Teams in Higher Education*. Annuska Zolyomi, Anne Ross, [Arpita Bhattacharya](#), Lauren Milne, Sean A. Munson. To appear in CHI'18. Montreal, Canada.
- [4] *Lessons from Practice: Individualizing the Design of Tools to Facilitate Quitting Smoking*. [Arpita Bhattacharya](#), Roger Vilardaga, Julie A. Kientz, Sean A. Munson. CHI'17, Denver, CO.
- [5] *"It wasn't really about the Pokémon": Understanding Families' Experiences with a Location-Based Mobile Game*. Kiley Sobel, [Arpita Bhattacharya](#), Alexis Hiniker, Jin Ha Lee, Julie A. Kientz, Jason Yip. CHI'17.
- [6] *Design Opportunities for Mental Health Peer Support Technologies*. Katie O'Leary, [Arpita Bhattacharya](#), Sean A. Munson, Jaccob O. Wobbrock, Wanda Pratt. CSCW 2017, Portland, OR.
- [7] *Designing motion-based activities to engage students with autism in classroom settings*. [Arpita Bhattacharya](#), Mirko Gelsomini, Patricia Pérez-Fuster, Gregory D. Abowd, and Agata Rozga. In Proceedings of the 14th International Conference on Interaction Design and Children (IDC '15). Boston, MA.
- [8] *Automated lip reading technique for password authentication*. Sharmila Sengupta, [Arpita Bhattacharya](#), Aarti Gupta, Pranita Desai. International Journal of Applied Information Systems (IJ AIS), Sept 2012, Volume 4, No. 3 (ISBN: 978-93-65823-29-7).
- [9] *Gaze-tracking based on Artificial Neural Network for teaching-aid*. Sharmila Sengupta, [Arpita Bhattacharya](#), Pranita Desai, Aartidevi Gupta. International Journal of Global Technology Initiatives (IJGTI), Dec 2012.

## **ABSTRACTS, POSTERS, & WORKSHOPS**

- [1] *Understanding Needs of Recovery-Oriented Social Support Group for Young Adults Living with Mental Health Conditions*. [Arpita Bhattacharya](#) and Helen Teresa Buckland. Accepted and to be presented as a poster at the 2018 International Society of Psychiatric-Mental Health Nurses' (ISPN) Annual Conference, "Mental Health Care Amid Policy Chaos," April 10-14, 2018, Tempe, Arizona.
- [2] *Relationship of Prolonged Acoustic Startle Latency to Diagnosis and Biotype in the Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Cohort*. Nicholas Massa, [Arpita Bhattacharya](#), Andrew V. Owens, Sarah Keedy, Wesley Harmon, John A. Sweeney, Godfrey D. Pearlson, Matcheri S. Keshavan, Elena I. Ivleva, Carol A. Tamminga, Brett A. Clementz, Erica Duncan. Poster presentation in American College of Neuropsychopharmacology (ACNP). Palm Springs, CA. Dec 2017.
- [3] *Value Sensitive Design for Neurodiverse Teams in Higher Education*. Annuska Zolyomi, Anne Spencer Ross, [Arpita Bhattacharya](#), Lauren Milne, and Sean Munson. Poster presentation in ASSETS 2017.
- [4] *UX design and N-of-1 trials of Learn to Quit, a novel smoking cessation app for chronic mental illness*. Roger Vilardaga, Javier Rizo, [Arpita Bhattacharya](#), Emily Y. Zeng, Brian Marr, Julie Kientz, Richard Ries. Society on Research in Nicotine and Tobacco. Florence, Italy. Feb 2017.
- [5] *Acoustic Startle Latency is Prolonged in Schizophrenia in the Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Cohort*. Nicholas Massa, [Arpita Bhattacharya](#), John A. Sweeney, Godfrey D. Pearlson, Matcheri S. Keshavan, Carol A. Tamminga, Brett A. Clementz, Erica Duncan. Biological Psychiatry, Atlanta, GA. Dec 2016.
- [6] *Understanding Requirements for Self-Experimentation to Tailor the Effectiveness of Mobile Interventions for Smoking Cessation*. [Arpita Bhattacharya](#), Sean A. Munson, Roger Vilardaga, Julie A. Kientz, James Fogarty, Jasmine Zia. Symposium, To blend or not to blend: advantages of mixing ACT with new technologies. 2016 Conference of the Association for Contextual Behavioral Science (ACBS). Seattle, WA. June 2016.

- [7] *Fostering Social Support through Technology in Mental Health Care*. Arpita Bhattacharya. Participant paper, CHI'16, Computing and Mental Health Workshop.
- [8] *Effects of Oxytocin on Social and Emotional Responsiveness in Patients with Deficit Syndrome Schizophrenia: A Preliminary Study*. Elissar Andari, Molly Fargotstein, David Halverson, Danielle Currin, Arpita Bhattacharya, Dmitriy Gitman, Bruce Cuthbert, Larry Young, Erica Duncan. Annual meeting of the Society of Biological Psychiatry. Atlanta, GA. May 2016.

## TEACHING EXPERIENCE

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- Teaching Assistantship  
HCDE 412 Qualitative Research methods (Instructor: Dr. Charlotte Lee) *Sep'18-Dec'18*
- Research group mentorship  
HCDE 496/596: Pokémon GO raiding study data analysis *Mar'18-Apr'18*  
HCDE 496/596: Teen stress study data analysis *Mar'18-Jun'18*  
HCDE 496/596: Youth mental health: a family-oriented approach *Mar'17-Jun'17*  
HCDE 496/596: Epiphany moments: Understanding catalysts for health behavior change *Sep'16-Mar'17*

## INDUSTRY EXPERIENCE

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- **Microsoft Research and Artificial Intelligence** **Redmond, WA** *Jun'18 - Sep'18*  
Research study using AI tools for affective computing under the mentorship of Dr. Mary Czerwinski.
- **IBM Design, Software Design Intern** **Austin, TX** *Jun'14 - Aug'14*  
User Experience research and iterative prototyping on three design projects for mobile devices in IBM *Maelstrom* intern group led by Devin O'Bryan.

## SERVICE

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- PhD Oversight Committee, student representative, October 2018-June 2019
- Reviewed papers in CHI 2017, CHI 2018, IDC 2018.
- In Program Committee of Workshop on Mental Health: Sensing & Intervention, UbiComp 2017.
- Student volunteer at the conference on *Interaction Design and Children (IDC), June 2015*, Boston, MA.
- Student volunteer at *National Alliance for Mental Illnesses (NAMI)*, Appreciative Living Learning Circle led by Dr. Helen Teresa Buckland: support group for youth with mental illness, *January 2016 to current*.

## AWARDS

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- Top Scholars Award (\$2,500), University of Washington, 2015-16.

## COMMUNITY TRAININGS

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- Mental Health First Aid USA Training (Adult & Youth), National Council for Behavioral Health, Spring'17