

Aditya Ponnada

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Research Interests:

Human Computer Interaction, Mobile Health, Personal Health Informatics

Education:

- Northeastern University, Boston, MA** *Sep 2015 - Current*
PhD, Personal Health Informatics,
Khoury College of Computer Sciences,
Bouve College of Health Sciences,
Advisor: Dr. Stephen Intille
- Indian Institute of Technology, Guwahati, India** *Jul 2009-Jun 2013*
Bachelor in Design (B.Des),
Department of Design

Research Experience:

- Northeastern University, Boston, MA** *Sep 2015-present*
Graduate Research Assistant, mHealth Research Group
- Eindhoven University of Technology (TU/e), The Netherlands** *May 2012-Jul 2012*
Visiting Research Assistant, Human-Technology-Interaction Lab
- Indian Institute of Technology, Guwahati, India** *Jan 2012-April 2012*
Undergraduate Research Assistant, UE & HCI Lab

Industrial Experience:

- Philips (Clinical and Personal Health), Cambridge, MA** *May 2019-Aug 2019*
Research Intern, Philips Design
- Samsung Electronics, R&D Institute, Bangalore, India** *Mar 2015-July 2015*
Senior User Experience Researcher, Next Experiences with Technology Lab
- User Experience Researcher, Next Experiences with Technology Lab *Jul 2013-Feb 2015*
- Iridium Interactive Pvt. Ltd., Hyderabad, India** *May'11-Jul'11*
User Experience Design Intern

Selected Publications:

- Aditya Ponnada, Binod Thapa-Chhetry, Justin Manjourides, and Stephen Intille. 2020. Measuring Criterion Validity of Microinteraction Ecological Momentary Assessment: A Pilot Study with Physical Activity Assessment. **JMIR mHealth and uHealth**. (*Under review*)
- Chih-Hsiang Yang, Jaclyn P Maher, Eldin Dzubur, Aditya Ponnada, Stephen Intille, Donald Hedeker, Genevieve Dunton. 2020. Variability of Physical Activity in Outdoor Context Predicts Future Daily Activity Levels: An Application of Mixed-Effects Location Scale Modeling. **Translational Behavioral Medicine**. (*Under review*)
- Eldin Dzubur, Aditya Ponnada, Rachel Nordgren, Jason Yang, Stephen Intille, Genevieve Dunton, and Donald Hedeker. 2020. MixWILD: A Program for Examining the Effects of Variance and Slope of Time-varying Variables in Intensive Longitudinal Data. **Behavior Research Methods**.
- Aditya Ponnada, Seth Cooper, Binod Thapa-Chhetry, Josh A Miller, Dinesh John, and Stephen Intille. 2019. Designing Videogames to Crowdsource Accelerometer Data Annotation for Activity Recognition Research. **CHI PLAY'19**.

Farnaz Irannejad Bisafar, Aditya Ponnada, Ameneh Shamekhi, and Andrea Parker. 2017. A Sociotechnical Study of a Community-based Rewards Program: Insights on Building Social, Financial, and Human Capital. **CSCW'18**.

Aditya Ponnada, Caitlin Haynes, Dharam Maniar, Justin Manjourides, and Stephen Intille. 2017. Microinteraction ecological momentary assessment response rates: Effect of microinteractions or the smartwatch? **IMWUT'17**.

Stephen Intille, Caitlin Haynes, Dharam Maniar, Aditya Ponnada, and Justin Manjourides. 2016. μ EMA: Microinteraction-based ecological momentary assessment (EMA) using a smartwatch. **UbiComp'16**.

Sanjay Ghosh, Sarita Seshagiri, and Aditya Ponnada. 2016. Exploring Regional User Experience for Designing Ultra Low-Cost Smart Phones. **CHI EA'16**.

Verberne, F. M., Ham, J., Ponnada, A., & Midden, C. J. (2013). Trusting digital chameleons: The effect of mimicry by a virtual social agent on user trust. **PERSUASIVE'13 [Best Paper Award at PERSUASIVE 2013]**.

Abstracts and Posters:

Dunton, G. F., Wang, S. D., Ponnada, A., Campo, R., Chow, S. M., & Intille, S. (2020, May). Innovative Ecological Momentary Assessment Strategies to Capture Micro-Temporal Processes Underlying Long-term Changes in physical Activity, Sedentary Behavior, and Sleep. In *Annals of Behavioral Medicine* (Vol. 54, pp. S146-S146). Journals Dept, 2001 EVANS RD, CARY, NC 27513 USA: OXFORD UNIV PRESS INC.

Wang, S. D., Intille, S. S., Ponnada, A., & Dunton, G. F. (2020, May). Engagement in the Temporal Influences in Movement and Exercise (TIME) Study Pilot. In *Annals of Behavioral Medicine* (Vol. 54, pp. S337-S337). JOURNALS DEPT, 2001 EVANS RD, CARY, NC 27513 USA: OXFORD UNIV PRESS INC.

Maciej Kos, Aditya Ponnada, Misha Pavel, Stephen Intille (2019, March), Evidence That Microinteraction Ecological Momentary Assessment (μ EMA) is a Non-Reactive In-Situ Affect Assessment Method. In 2019 Society for Affective Science Conference.

Honors & Awards:

Best Presentation Award, at HFES New England Chapter's student research symposium

NUTECH + AWS Award, awarded \$5000 worth AWS credits to develop and host human computation games

Amandus H. Lundqvist Scholarship (ALSP-silver) for master's studies in TU Eindhoven, The Netherlands

Young Achiever of the Year Award (2nd Position), Samsung Annual Awards, 2013-2014

Employee of the Month Award, Samsung R&D Bangalore, October 2013

Best Research Paper Award, PERSUASIVE 2013

Student Travel Grant, Intelligent HCI Conference, 2012

Leadership & Service:

Chair, Student Design Consortium, IndiaHCI 2015

Peer Reviewer, CHI, IMWUT, UbiComp, TOCHI, CSCW, EMBC

Representative, DUPC (Department Undergraduate Program Committee), IIT Guwahati

Steering Committee Member, BostonCHI (Boston's SIGCHI Chapter)

Organizer & Mentor, Design research sprint workshop, MIT Pune, India

Skills:

UX & HCI Research: Qualitative, Quantitative, Experiments, Interviews (Users & Experts), Questionnaire Designs, Experience Sampling, Psychophysiological Assessments, Item Response Theory

Usability & Design: Hi & Lo-fi Prototyping, Card Sorting, Personas & Scenarios, Participatory Design, Heuristic Evaluation, Information Architecture, A/B Testing, Think Aloud Protocols, Eye-Movement Recording

Programming: R, Python, HTML, CSS, JAVA, XML, C#, Action Script, SQL, Processing

Software/Tools/APIs: Android Studio, PyCharm, NetBeans, Visual Studio Code, RStudio, SPSS, SAS, GPower3, MS Office, Adobe Creative Suite, ActiLife (Actigraphy), Git, Unity, P5.js, Plotly.js

Data Analytics & Statistics: Univariate & Multivariate Statistics, Regression Analysis (Linear, Non-linear, and Logistic), Power Analysis, Factor Analysis, Applied Supervised Learning, Time Series Analysis, Multilevel Modeling