

Curriculum Vitae – February 26, 2017

Stephen S. Intille

Associate Professor
College of Computer and Information Science and Bouvé College of Health Sciences
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Research Interests

Personal health informatics; computational sensing, applied machine learning, and user interface systems for preventive medicine; persuasive user interfaces for motivating behavior change; sensor-enabled mobile health technologies; context-aware ecological momentary assessment; experimental ubiquitous computing; living laboratories; perceptually-based interactive environments; behavioral measurement and modeling; active transportation facilitated by mobile technology; health technology and policy.

Education

Massachusetts Institute of Technology, Cambridge, MA

The Media Laboratory
Ph.D. Media Arts and Sciences (September 1999)
Dissertation title: Visual recognition of multi-agent action
Area of specialization: computer vision action recognition and interactive vision systems

Massachusetts Institute of Technology, Cambridge, MA

The Media Laboratory
S.M. in Media Arts and Sciences (August 1994)
Thesis title: Tracking using a local closed-world assumption
Area of specialization: computer vision

University of Pennsylvania, Philadelphia, PA (May 1992)

School of Engineering and Applied Sciences
B.S.E. in Computer Science and Engineering, *summa cum laude*

Professional Appointments and Research Experience

Northeastern University, Boston, MA

(September 2010-)
Associate Professor, College of Computer and Information Science & Dept. of Health Sciences, Bouvé College of Health Sciences
Director of the mHealth Research Group (<http://mhealth.ccs.neu.edu>)
Co-Founder and Director of the Personal Health Informatics Doctoral Program (<http://phi.neu.edu>)

Massachusetts Institute of Technology, Cambridge, MA

Visiting Research Scientist (September 2010-12)
Changing Places Research Group, MIT Department of Architecture

MIT House_n Consortium, Cambridge, MA

(September 1999 – August 2010)
Research Scientist with PI status. Research and teaching on topics related to computational sensing for health technologies, interactive environments, and future human-computer interface design. Supervision of postdoctoral associates, technical staff, and graduate and undergraduate students. Technology Director of the House_n Consortium (since 2002). Grant-writing and corporate

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fundraising for research efforts and support of the industry/academic consortium. MIT Principal Investigator on NSF, NIH, Intel, CIMIT, Microsoft Research, IBM, and Robert Wood Johnson Foundation grants.

MIT Media Laboratory, Cambridge, MA

(September 1992 - August 1999)

Research Assistant. Published research in computer vision and interactive vision systems. Advisor: Prof. Aaron Bobick.

Penn General Robotics and Sensory Perception (GRASP) Laboratory

(Summer 1991)

Research Assistant. Developed a visual interface for a range image recognition system. Advisor: Prof. Ruzena Bajcsy.

Grants

Principal Investigators (NIH/NIBIB), “**Crowd-Sourced Annotation of Longitudinal Sensor Data to Enhance Data-Driven Precision Medicine for Behavioral Health.**” A two-year project to develop a game-based crowdsourcing system to facilitate annotation of accelerometer and precision medicine mobile datasets to support research (2016).

NEU Principal Investigator, Lead University of Southern California (PI: Henwood) (NIH/NIMH), “**Understanding HIV Risk Environment for Youth in Supportive Housing.**” A three-year project to develop and use a context-sensitive ecological momentary assessment system to gather data on HIV risk among youth in supportive housing (2016).

NEU Principal Investigator, Lead Temple University (PI: Hiremath) (Craig Neilsen Foundation), “**Just-In-Time Adaptive Feedback Systems to Assist Individuals with SCI.**” A two-year project to develop a sensor-driven, just-in-time measurement and intervention system to help spinal cord injury patients (2016).

Co-Investigator (PI: Fulmer) (NIH/NINR P20), “**Northeastern Center for Technology in Support of Self Management and Health (NCTech).**” A five-year project to develop nursing research expertise and effective interventions in the area of self-management for vulnerable older adults at risk for poor health outcomes. This mission will be supported with the use of state-of-the-art technology to facilitate the timeliness, scalability and effectiveness of multi/transdisciplinary self-management interventions (2014).

NEU Principal Investigator, Lead University of Southern California (PI: Hedeker/Dunton), “**Novel Statistical Models for EMA Studies of Physical Activity.**” A three-year project to develop and test novel multilevel statistical methods to examine the effects of subject-level parameters (variance and slope) of time-varying variables in ecological momentary assessment (EMA) studies of physical activity (2014).

Principle Investigator (Google, Inc.), “**Modeling temporally-dense microinteractions to promote health behavior change.**” A one-year project to explore how heads-up displays such as Google Glass can be used to support health behavior measurement and interventions using microinteractions (2013).

NEU Principal Investigator, Lead University of Southern California (PI: Dunton) (NIH/NHLBI R01), “**Maternal Stress and Children’s Obesity Risk.**” A five-year project to determine whether levels of stress among working mothers are related to increased obesity risk in their children using novel methods such as ecological momentary assessment (2013).

NEU Principal Investigator, Lead Everyfit, Inc. (PI: Albinali) (NIH/NCI Contract), “**SPADES: A System for Encouraging Adoption of New Methods for Activity Monitoring.**” A two-year project to develop an open-source, uncomplicated cloud-based software service that makes it extremely easy for a researcher to gather and analyze high-resolution behavioral data within one hour of data capture (2013).

Co-Investigator (PI: Barrett) (Northeastern University Tier 1 Research Grant), "**Brain-Computer Interface for Signaling Changes in Psychological States.**" A one-year project to establish the feasibility of using a portable fNIRS device to measure large changes in emotional state and trigger mobile context-sensitive ecological momentary assessment. (2013).

Consultant and Co-Investigator, Lead EveryFit, Inc. (PI: Albinali) (NIH/NCI Contract), "**Development of Algorithms for Detection of Physical Activity Patterns from Wrist-worn Triaxial Accelerometers.**" A one-year project to collect data and test the performance of algorithms to detect ambulation from wrist-worn accelerometers. (2012).

Co-Investigator (PI: Franko) (Northeastern University Tier 1 Research Grant), "**Mobile Technology for Obesity Prevention in Racially and Ethnically Diverse Young Adults.**" A one-year project to establish an evidence-based program for obesity prevention in students of color who are at risk for unhealthy weight gain using mobile technology through: (1) cell phone camera use for self-monitoring of eating behaviors; and (2) text messaging to enhance goal adherence to healthy eating behaviors. (2012).

Co-Investigator (PI: Lincoln) (Northeastern University Tier 1 Research Grant), "**Exploring the use of innovative technologies in behavioral health.**" The goal of this one-year project is to support the Northeastern Mental Health Working Group to (1) host a symposium on the Innovative Use of Technology in Behavioral Health and to (2) conduct preliminary research on the factors that might facilitate and those that might serve as barriers to the adoption, implementation and effectiveness of interventions involving novel technology in behavioral health care (2012).

Northeastern Principal Investigator, Lead Case Western Reserve Medical School (PI: Spilbury) (NIH R21), "**Peer and family effects on urban African-American children's sleep.**" The goal of this two-year project is to develop and test technology for semi-automatically gathering information about environmental factors that might impact sleep quality (2012).

Co-Principal Investigator (with G. Dunton at USC) (NIH R21), "**Using Mobile Phones to Reduce Missing Data in Youth Activity Monitoring Studies.**" The goal of this two year study is to provide a low-cost way to use common mobile phones to reduce and explain missing and ambiguous data collected in studies using objective monitors to measure physical activity and sedentary behavior in adolescents (2012).

Co-Investigator (PI: Bickmore) (CIMIT Innovation Grant), "**Optimizing Hospital Workflow and Quality through Patient Engagement.**" A one-year project to improve inpatient care workflow through the development of a patient-facing technology platform, the "Hospital Buddy," that will use Wocket accelerometers to detect behavior related to sleep (2011).

MIT Principal Investigator, Lead Duke Medical School (PI: Svetkey) (NIH U01), "**Cellphone Intervention Trial for Young Adults (CITY).**" A five-year study to develop and evaluate (in a randomized clinical trial) sensor-enabled mobile phone technology to assist young adults with long-term weight loss and weight management (2009).

Principal Investigator (NIH GEI Opportunity Fund Program), "**Encouraging GEI Activity Monitor Adoption: Demonstrating Device Equivalency.**" A one-year study using custom-designed mechanical shakers and pattern recognition algorithms to demonstrate how phones can be used to produce output nearly equivalent to existing physical activity monitors (2009).

MIT Principal Investigator, Lead USC Medical (PI: Dunton) (Robert Wood Johnson Foundation), "**Development of a Time Use Intervention Using Mobile Phones to Promote Physical Activity in Youth.**" Several projects to explore the use of experience sampling on mobile phones for physical activity data gathering in children and adults (2009).

MIT Principal Investigator, Lead RTI International (PI: Rhodes) (NIH NIEHS), "**Development of**

Optimal Monitor Placement and Accelerometer Algorithms for Personal Contaminant Sensor Platforms with a Focus on Children's Activities." A one-year NIH-funded project with RTI International, Stanford School of Medicine, UC San Diego, LDEO/Columbia, and Battelle/PNNL to study the use of accelerometry-based motion monitoring to improve a wearable, personal contaminant sensing in children (2009).

MIT Principal Investigator, Lead RTI International (PI: Rhodes) (NIH NIEHS), "**Development of Optimal Monitor Placement and Accelerometer Algorithms for Personal Contaminant Sensor Platforms.**" A one-year NIH-funded project with RTI International, Stanford School of Medicine, UC San Diego, LDEO/Columbia, and Battelle/PNNL to study the use of accelerometry-based motion monitoring to improve a wearable, personal contaminant sensing in adults (2008).

Principal Investigator (NSF), "**CRI:CRD Development of Longitudinal Home Activity Datasets as a Shared Resource.**" A three-year study to develop portable sensor tools that can be used in typical homes to collect data for computer science and health research, as well as to generate shared datasets on home activity from actual homes to be used as a community resource to accelerate research (2007).

Principal Investigator (NIH NHLBI U01), "**Enabling Population-Scale Physical Activity Measurement on Common Mobile Phones.**" A four-year study with Stanford School of Medicine to create novel health monitoring tools for mobile phones. Includes a supplement to develop mobile context-sensitive ecological momentary assessment software for mobile phones ("Extensible Platform for Implementing Experience Sampling on Mobile Phones") (2007).

Principal Investigator (Intel AIM Grant Program), "**AIM Proposal: End-User-Driven Training of Activity Recognition Algorithms.**" A three-year study on the use of in-home context sensing, where end-users drive the algorithm training process, as applied towards proactive health care (2007).

MIT Principal Investigator, Lead Vanderbilt University (PI: Buchowski) (NIH NHLBI), "**Physical activity energy expenditure and adolescent obesity.**" A two-year collaboration where House_n sensors were provided to Vanderbilt researchers for energy expenditure measurement experiments in a room calorimeter (2007).

MIT Principal Investigator, Lead Groden Center (PI: Velicer) (National Alliance for Autism), "**Telemetric Assessment of Movement Stereotypy in Children with ASD.**" A two-year study with the Groden Center, a school for autistic children, and the University of Rhode Island to explore the use of wireless accelerometers for automatic detection of autistic stereotypies (2006).

Principal Investigator (Microsoft Digital Memories (Memex) grant award), "**Integration of Memex and PlaceLab Datasets for Personal Investigations of Health and Living Patterns.**" A one-year study to add Microsoft SenseCam technology to the PlaceLab. The technology has since been added to the BoxLab system used in a current NSF grant (2006).

MIT Principal Investigator, Lead Northeastern University (NIH NLM R21), "**Just in Time Health Information for Exercise Adoption.**" A two-year study with Northeastern University and Harvard University to develop and test a PDA-based system for motivating brisk walking (2005).

MIT Principal Investigator, Lead UNC School of Public Health (Gatorade Seed Funds), "**Development of an Objective Measure of Television Watching.**" A one-year exploratory study with University of North Carolina School of Public Health to adapt a wireless sensor toolkit (MITes) to detect television watching behavior and sedentary activity (2005).

MIT Principal Investigator, Lead Boston Medical Center (NIH NCI R21), "**Context-Sensitive Measurement of Physical Activity.**" A two-year study with Boston Medical Center and Stanford School of Medicine to develop and test sensor technology for measuring physical activity (2004).

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Principal Investigator (Intel AIM Grant Program), "**AIM Proposal: Detecting Idle Moments for Proactive Health Activities Using Personal and Environmental Sensors and Interfaces.**" A three-year study on context-aware computing for proactive health care (2003).

Principal Investigator (NSF), "**ITR: Detecting Activity in Homes with Ubiquitous Sensing to Support Aging in Place.**" A two-year study on activity of daily living (ADL) recognition from home sensors (2003).

Faculty Award (IBM). An award to investigate ubiquitous computing technology (2003).

Principal Investigator (NSF), "**ITR/PE: Using context-recognition for preventative medicine in the home.**" A two-year study with Boston Medical Center to develop and test sensors for home activity recognition (2001).

Principal Investigator (Robert Wood Johnson Foundation), "**Measuring and Motivating Stair Use in Public Spaces.**" A one-year study to develop a system to measure and motivate stair use with digital point of decision prompting in a subway station (2002).

Contracts

Principal Investigator (National Cancer Institute/DCCPS/Applied Research Program), "**Generating a Free, High-Quality Food Product Database using Games with a Purpose.**" A one-year project to demonstrate the viability of using web games to generate a food/nutrition/UPC database that can be used for research and commercial purposes (2010).

Consultant on Grants

Consultant, Lead Northwestern University (PI: Gershon) (NIH 1U24OD023319 01), "Environmental influences on Child Health Outcomes: Patient Reported Outcomes Research Resource Center Core (ECHO PRO Core) (U24)." The goal of my consulting role on this multi-year project will be to provide expertise on new sensor-enabled behavioral measurement instruments. (2016)

Consultant, Lead Veteran's Administration (PI: Quigley) (VA HSR&D PPO 14-144), "**Mobile Sleep and Pain Intervention for OEF, OIF and OND Veterans.**" The goal of this 1 year project is to pilot test the usability and feasibility of two mobile health technology tools, a mobile sleep monitor for home use and a VA-designed mobile health app for teaching cognitive behavioral skills for reducing chronic insomnia within a self-management program. (2015)

Consultant, Lead EveryFit, Inc. (PI: Albinali) (NIH/NCI Contract), "**COMPASS: Capturing and Analyzing Sensor and Self-report Data for Clinicians and Researchers.**" A three-year project to develop and test a web-based system for the collection and analysis of health-related sensor data. (2013).

Consultant, Lead Columbia University (PI: Wilson) (NIH/NIDA), "**Daily Psychosocial Determinants of ART Adherence in Substance-using Black Men.**" A three-year project to conduct two studies used to develop a daily proactive planning intervention that will be designed to improve medication adherence for substance using HIV+ Black men (2012).

Consultant, Lead EveryFit, Inc. (PI: Albinali) (NIH NCI SBIR Contract HHSN261201100056C), "**A System for Encouraging Adoption of New Methods for Activity Monitoring.**" The goal of this 6 month project is to develop a web-based system (SPADES) for storage and analysis of physical activity data used in physical activity surveillance studies (2011).

Awards

UbiComp/Pervasive 10 Year Impact Award. Awarded for two papers published in 2004: "Activity Recognition from User-Annotated Acceleration Data" and "Activity Recognition in the Home Using Simple and Ubiquitous Sensors" (2014).

Service (Editing and Reviewing)

Grant Reviewer

- National Institutes of Health review panel: Mobile Health: Technology and Outcomes in Low and Middle Income Countries (R21) (2014, 2015, 2017)

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- National Institutes of Health special panel reviewer (2009, 2010, 2012, 2015 (panel chair)).
- National Science Foundation panels (multiple years)
- ILSI North America Committee on Balancing Food & Activity for Health pilot award on “Innovative Tools for Assessing Diet and Physical Activity for Health Promotion” (2017)

IEEE Transactions on Big Data

- Invited Special Editor for "Big Data and Ubiquitous Computing" issue (2017)

Selection Committee for the Graduate Student Travel support for ICAMPAM 2017 (funded by NSF) (March, 2017)

Core Faculty Member and Northeastern University host: 2012 mHealth Summer Training Institute (July 29 – August 3, 2012)

PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) (Journal associated with Ubicomp Conference)

- Associate Editor (2016, 2017)

Member Boston Physical Activity Collaborative (BPARC) (2016-)

Pervasive Health

- Technical Program Committee (2017)

International Conference on Diet and Activity Measurement

- Session Chair, “"New technologies for monitoring physical activity" (2012)

International Conference on Ambulatory Monitoring of Physical Activity and Movement (ICAMPAM).

- Scientific Committee (2012-2013)

AAAI Fall Symposium on AI for Gerontechnology

- Program Committee (2012)

mHealthSys Workshop

- Technical Program Committee (2011, 2012)

Human Behavior Understanding and Behavioral Change Workshop

- Technical Program Committee (2011)

International Workshop on Frontiers in Activity Recognition using Pervasive Sensing

- Program Committee (2011)

Mobile Sensing: Challenges, Opportunities and Future Directions Workshop at Ubicomp 2011

- Technical Program Committee (2011)

IEEE Pervasive Magazine

- Editorial Board (2015-)
- Co-Editor (with Anind Dey (-2016) and Jesus Favela) of the Department of Pervasive Health in Pervasive Computing (2012-)

International Journal of Medical Informatics Special Issue on "Designing for Healthy Living"

- Editorial Team (2011)

Conference on Human Factors in Computing Systems

- Associate Chair Reviewer: (CHI) (2009).

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International Conference on Persuasive Technology (Persuasive)

- Scientific Program Committee: (2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016).
- Technical Program Committee (2006)

AAAI Fall Symposium on AI in Eldercare

- Technical Program Committee: (2008).

International Conference On Smart Homes and Health Telematics

- Scientific Program Committee: (ICOST) (2008).

European Conference on Ambient Intelligence

- Technical Program Committee: (2007).

International Conference on Ubiquitous Computing (UbiComp)

- Steering Committee (2005-present)
- Technical Program Committee Co-Chair (2005)
- Technical Program Committee: (2007, 2004).

International Conference on Technology and Aging

- Program Committee: (2007).

IMIA Smart Homes and Ambient Assisted Living Working Group (2006).

AAAI Spring Symposium on Argumentation for Consumers of Healthcare

- Organizing Committee Member: (2006).

International Conference on Pervasive Computing (Pervasive)

- Technical Program Committee Member (2005).

IEE International Workshop on Intelligent Environments

- Technical Program Committee Member (2005).

National Academy of Engineering

- Symposium on Frontiers of Engineering Organizing Committee (2005).
- Invited "Smart Homes" Session Co-organizer for the 2014 EU-US Frontiers of Engineering Symposium (2014).

Conference and Journal Reviewer (2002-present)

- Reviews for IEEE TITB, IEEE Pervasive Computing, Pervasive Conference, UbiComp Conference, Conference on Human Factors in Computing Systems (CHI), Conference on Computer Supported Cooperative Work, User Interface and Software Technology Conference (UIST), International Symposium on Wearable Computers Conference, Pattern Recognition and Machine Intelligence, Pervasive and Mobile Computing, Persuasive Conference, and Translational Behavioral Medicine: Practice, Policy, and Research Journal, International Conference on Intelligent User Interfaces, Journal of Biomedical and Health Informatics, ARDUOUS: 1st International Workshop on Annotation of useR Data for Ubiquitous Systems.

Service (Peer Reviewed Workshop Organization)

Big Data Opportunities and Challenges in Mobile Health Workshop
with Wendy Nilsen and Mary Rodgers (NIH), Santosh Kumar (Memphis), and Deborah Estrin
(Cornell Tech)

ACM Conference on Knowledge Discovery and Data Mining (KDD 2014)
New York, NY, August 2014

New Technology to Assess Physical Activity
with Patty Freedson (UMass Amherst), Catherine Loria (NIH), Jacqueline Kerr (USCD), and

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Mingui Sun (U. Pittsburgh)
ISBNPA Conference
Austin, TX, May 2012

International Workshop on New Computationally-Enabled Theoretical Models to Support Health Behavior Change and Maintenance
with D. Spruijt-Metz (USC), Illka Korhonen (Tampere U. of Technology), Niilo Saranummi (VTT Technical Research Centre), and Wendy Nilsen (NIH OBSSR)
Funded by the National Science Foundation
Brussels, Belgium, October 2012

How To Do Good Research In Activity Recognition: Experimental Methodology, Performance Evaluation and Reproducibility
with Paul Lukowicz (Univ. of Passau, Germany) and Jamie A Ward (Lancaster University, UK)
International Conference on Pervasive Computing (Pervasive Conference) Workshop
Helsinki, Finland, May 2010

Developing Shared Home Behavior Datasets to Advance HCI and Ubiquitous Computing Research
with Gregory Abowd (Georgia Tech), Beth Logan (Intel), and Jason Nawyn (MIT)
CHI Workshop
Boston, MA, April 2009

Engagement by Design
with Tim Bickmore (Northeastern), and Sunny Consolvo (Intel)
CHI Workshop
Boston, MA, April 2009

Caring Machines: AI in Eldercare
with Timothy Bickmore (Northeastern), Henry Kautz (Rochester), Karen Haigh (Honeywell Laboratories), and Richard Simpson (University of Pittsburgh)
AAAI Fall Symposium
Washington, DC, November 2005

HCI Challenges in Health Assessment
with Margaret Morris (Intel)
CHI Workshop
Portland, OR, April 2005

Home Technologies to Keep Elders Connected
with Jay Lundell (Intel) and Margaret Morris (Intel)
CHI Workshop
Vienna, Austria, April 2004

Caring Machines: AI in Eldercare
with Timothy Bickmore (Northeastern), Henry Kautz (Rochester), Karen Haigh (Honeywell Laboratories), and Richard Simpson (University of Pittsburgh)
AAAI Fall Symposium
Washington, DC, November 2005

HCI Challenges in Health Assessment
with Margaret Morris (Intel)
CHI Workshop
Portland, OR, April 2005

Home Technologies to Keep Elders Connected
with Jay Lundell (Intel) and Margaret Morris (Intel)
CHI Workshop

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Vienna, Austria, April 2004

Service (Committees at Northeastern)

Faculty Senate Academic Policy Committee (2015-2017) (Chair, Spring 2017)
Health Informatics MS Committee (2011-2017)
Health Sciences Tenure and Promotion Committee (2012-2017)
PhD Personal Health Informatics Committee (Chair) (2012-2017)
MS HI and HDA Curriculum Committee (2016-2017)
Provost's Office Working Group on Obesity Research (2012-2013)
Health Policy and Law Faculty Working Group (2010-2014)
Center for Health Policy and Healthcare Research Working Group (2011-2014)
CCIS Tenure Committee (2011-2017)
Health Sciences Exercise Faculty Committee (2011-2017)
Personal Health Informatics Hiring Committee (2010-2012)
MPH committee (2010-2015)
CCIS Ph.D. Committee (2010-2012, 2015-2017)
Exercise Science Hiring Committee (2010-2011)
School of Nursing Dean Hiring Committee (2013-2014)
CCIS Hiring Committee (2013-2015)

Service (Other Northeastern)

Directing the Personal Health Informatics Doctoral Program, including

- Policy development (2011-)
- Website/advertising (2011-)
- Open houses (2012-)
- Research track development for MS program (2013-)
- Co-directing the PHI Practicum experience (Spring 2013 – 4 students)

Lead organizer Personal Health Informatics Seminar Speaker Series (Fall 2012, Spring 2013)

Nominated for, and participated in, the Research Leadership Development Initiative (ReDI) (Aug 22-25, and weekly meetings fall 2016, Jan 2017)

Guest Lectures/Instruction:

- Bouve PhD Professional Development Seminar Series: Hiring (2016)
- Creation and Application of Medical Knowledge (2015)
- Theoretical Foundations in Personal Health Informatics (2012, 2015, 2016)
- American Healthcare System (2012, 2013, 2014, 2015)
- Public Health Nutrition Course (September 2011, September 2012, February 2013, February 2014, February 2015)
- Human Computer Interaction (2010)
- Intro to College (2014, 2015, 2016)
- HLTH 5450 Healthcare Research (2013, 2014)
- Enabling Engineering Student Group (March 20, 2013)

Health Sciences Admissions Phone-a-thon (December 2012, December 2016)

Media Briefing Personal Health Informatics Luncheon (September 13, 2013)

Health Science Day: Meet prospective students/parents (2014, 2015 2x, 2016 2x)

Guest Speaker, Northeastern University Scholars Seminar, April 2, 2015

Residential Life Dinner Presentations (October 11, 2012, February 9, 2012, October 26, 2015)

Tier 1 Grant Reviews (February, 2016)

Bouve PhD Directors Working Group Meetings (2016-)

Bouvé Meet the Researcher Night (January 21, 2016)

Presentation at Remote Campus Events:

- Seattle Washington Biotechnology & Biomedical Association Event (September 18, 2014)
- Charlotte Remote Campus Grand Opening (October 30, 2011)

**Publications in
Refereed
Journals**

M. Jones, A. Taylor, Y. Liao, S. S. Intille, and G. F. Dunton, "Real-time subjective assessment of psychological stress: Associations with objectively-measured physical activity levels," *Psychology of Sport & Exercise*, 2017.

J.C. Spilsbury, S.R. Patel, N. Morris, A. Ehayaei, and S.S. Intille, "Household chaos and sleep-disturbing behavior of family members: Results of a pilot study of African-American early adolescents," *Sleep Health: Journal of the National Sleep Foundation*, published online Jan 23, 2017.

J.P. Maher, R.E. Rhodes, E. Dzubur, J. Huh, S. Intille, and G. F. Dunton, "Momentary assessment of physical activity intention-behavior coupling in adults," *Transl Behav Med*, Feb 02, 2017. PMID: 28155108.

A. Mannini, M. Rosenberger, W.L. Haskell, A.M. Sabatini, and S.S. Intille, "Activity recognition in youth using single accelerometer placed at wrist or ankle," *Medicine & Science in Sports & Exercise*, Nov 3 [Epub ahead of print], 2016. PMID: 27820724.

J.P. Maher, E. Dzubur, J. Huh, S. Intille, and G.F. Dunton, "Within-day time-varying associations between behavioral cognitions and physical activity in adults," *J Sport Exerc Psychol*, vol. 38, pp. 423-434, Aug 2016. PMID: 27634288.

G. F. Dunton, E. Dzubur, and S. Intille, "Feasibility and performance test of a real-time sensor-informed context-sensitive ecological momentary assessment to capture physical activity," *Journal of Medical Internet Research*, vol. 18, p. e106, 2016. PMID: 27251313.

S. V. Hiremath, S. S. Intille, A. Kelleher, R. A. Cooper, and D. Ding, "Estimation of energy expenditure for wheelchair users using a physical activity monitoring system," *Archives of Physical Medicine and Rehabilitation*, vol. 97, pp. 1146-1153, 2016. PMID: 26976800.

R.F. Rodgers, W. Pernal, A. Matsumoto, M. Shiyko, S. Intille, and D.L. Franko, "Capitalizing on mobile technology to support healthy eating in ethnic minority college students," *J. Am. Coll. Health*, 64(2), 2016, pp. 125-32. PMID: 26630479.

G.F. Dunton, E. Dzubur, M. Li, J. Huh, S. Intille, and R. McConnell, "Momentary assessment of psychosocial stressors, context, and asthma symptoms in Hispanic adolescents," *Behavior Modification*, 2016, pp. 257-280. Published online before print Oct. 5, 2015. PMID: 26438664.

L.P. Svetkey, B.C. Batch, P.H. Lin, S.S. Intille, L. Corsino, C.C. Tyson, H.B. Bosworth, S.C. Grambow, C. Voils, C. Loria, J.A. Gallis, J. Schwager, and G.B. Bennett, "Cell phone intervention for you (CITY): A randomized, controlled trial of behavioral weight loss intervention for young adults using mobile technology," *Obesity (Silver Spring)*, 23(11), 2015, pp. 2133-41. PMID: 26530929.

D. Spruijt-Metz, E. Hekler, N. Saranummi, S. Intille, I. Korhonen, W. Nilsen, D.E. Rivera, B. Spring, S. Michie, D.A. Asch, A. Sanne, V.T. Salcedo, R. Kukafka, and M. Pavel, "Building new computational models to support health behavior change and maintenance: New opportunities in behavioral research," *Translational Behavioral Medicine*, 2015, 335-346. PMID: 26327939.

P.H. Lin, S. Intille, G. Bennett, H.B. Bosworth, L. Corsino, C. Voils, S. Grambow, T. Lazenka, B.C. Batch, C. Tyson, and L.P. Svetkey, "Adaptive intervention design in mobile health: Intervention design and development in the Cell Phone Intervention for You trial," *Clin Trials*, 12(6), 2015, 634-45. PMID: 26229119.

G.F. Dunton, Y. Liao, E. Dzibur, A.M. Leventhal, T. Gruenewald, G. Margolin, C. Koprowski, E. Tate, and S. Intille, "Investigating within-day and longitudinal effects of maternal stress on children's physical activity, dietary intake, and body composition: Protocol for the MATCH study," *Contemporary Clinical Trials*, 43, 2015, pp. 142-54. PMID: 25987483.

T.A. Pickering, J. Huh, S. Intille, Y. Liao, M.A. Pentz, and G.F. Dunton, "Physical activity and variation in momentary behavioral cognitions: An ecological momentary assessment study," Aug 13, 2015 [Epub ahead of print]. PMID: 26284314.

G. F. Dunton, Y. Liao, S. Intille, J. Huh, and A. M. Leventhal, "Momentary assessment of contextual influences on affective response during physical activity," *Health Psychology*, 34(12), 2015, 1145-53. PMID: 26053885.

E. Dzibur, M. Li, K. Kawabata, Y. Sun, R. McConnell, S. Intille, and G. F. Dunton, "Design of a smartphone application to monitor stress, asthma symptoms, and asthma inhaler use," *Ann Allergy Asthma Immunol*, 114(4), 2015, pp. 341-342. PMID: 25661657

R. F. Rodgers, D. L. Franko, M. Shiyko, S. Intille, K. Wilson, D. O'Carroll, M. Lovering, A. Matsumoto, A. Iannuccilli, S. Luk, and H. Shoemaker, "Exploring healthy eating among ethnic minority students using mobile technology: Feasibility and adherence," *Health Informatics Journal*, Jan 20 2015. [Epub ahead of print] [Accepted 2014] PMID: 25609082.

S. V. Hiremath, S. S. Intille, A. Kelleher, R. A. Cooper, and D. Ding, "Detection of physical activities using a physical activity monitor system for wheelchair users," *Med Eng Phys*, 37(1) 2015, pp. 68-76. [Accepted 2014] PMID: 25465284.

Y. Liao, S. S. Intille, and G. F. Dunton, "Using ecological momentary assessment to understand where and with whom adults' physical and sedentary activity occur," *International Journal of Behavioral Medicine*, 22(1), 2015, pp. 51-61. PMID: 24639067.

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Annual Meeting, San Francisco, CA, March, 2013.

T.A. Pickering, J. Huh, S. Intille, and G. Dunton, "Relationships between physical activity and the mean and variability in repeatedly-measured behavioral cognition variables," Society of Behavioral Medicine Annual Meeting, San Francisco, CA, March, 2013.

Y. Liao, S. Intille, and G.F. Dunton, "Using ecological momentary assessment to understand where and with whom adults' sedentary and physical activity occurs," the 10th Active Living Research Annual Conference, February, 2013.

Y. Liao, J. Huh, D. Spruijt-Metz, S. Intille, M.A. Pentz, G. Dunton, "Examining the immediate effects of intention and self-efficacy on physical activity among adults: An ecological momentary assessment study", APHA American Public Health Association Annual Meeting, October, 2012.

G.F. Dunton, Y. Liao, S. Intille, D. Spruijt-Metz, and M. Pentz, "Assessing adults' physical activity and sedentary behavior using Ecological Momentary Assessment with mobile phones," American Public Health Association Annual Meeting, October, 2012.

M. Rosenberger, W. Haskell, F. Abinali, S. Mota, J. Nawyn, and S. Intille, "Estimating energy expenditure from accelerometry and physiological sensors in one device," American College of Sports Medicine (ACSM) National Conference, May 2012.

S. Intille, T. Lazenka, K. Bechtel, F. Abinali, S. Mota, B. Kuris, P. Botana, and W.L. Haskell, "Developing context-sensitive ecological momentary assessment on mobile phones: Examples/lessons from pilot projects," in "Using Real-Time Mobile Phone Technologies in Physical Activity and Eating Behavior Research" Symposium, Society of Behavioral Medicine Annual Meeting, April, 2012.

C. Younan, Y. Liao, K. Kawabata, D. Spruijt-Metz, S. Intille, M. Pentz, and G. Dunton, "Using ecological momentary assessment to examine perceptions of safety, aesthetics and physical activity in adults," Active Living Research (ALR) Annual Conference, March, 2012.

M. Rosenberger, W. Haskell, F. Abinali, S. Mota, J. Nawyn, and S. Intille, "A comparison of accelerometer estimates of energy expenditure on the wrist and hip in adults," American Heart Association (AHA) EPI/NPAM Conference, March 2012.

S. Intille, "Prototype mobile phone technology for influencing behavior using real-time measurement and tailored feedback", in "Enabling a lasting active lifestyle in adults" Symposium, New England ACSM Annual Meeting, November 2011.

L. Corsino, B.C. Batch, G. Bennett, H. Bosworth, L. Corsino, S. Grambow, S. Intille, P.-H. Lin, C. Simpson, C. Voils, and L. Svetkey, "Cell Phone Intervention for You (CITY): Randomized Trial of Behavioral Interventions for Weight Loss in Young Adults," in the "Early Adult Reduction of Weight through Lifestyle Intervention (EARLY) Trials; Using Innovative Technologies in Randomized Controlled Trials Targeting Weight Control Among Young Adults" Symposium at Society of Behavioral Medicine Annual Meeting, April 2011.

S. Intille, F. Abinali, S. Mota, A.D. Nguyen, Y. Han, and W.L. Haskell, "Sensor-driven automatic feedback on mobile devices for improving behavioral measurement and intervention: Design experiences from two pilot projects," in "Advances in Information Technology for Increasing Dissemination" Symposium, Society of Behavioral Medicine Annual Meeting, April, 2011.

M. Rosenberger, W. Haskell, P. Quatromoni, F. Abinali, and S. Intille, "Objective measurement of sedentary behavior with accelerometers," American Heart Association (AHA) EPI/NPAM conference, March 2011.

M. Rosenberger, W. Haskell, S. Intille, and F. Abinali, "Device measuring respiration rate, heart

Stephen S. Intille Curriculum Vitae

rate, and motion accurately estimates activity level and energy expenditure,” Southwest ACSM Conference, October 2010.

G.F. Dunton, S. Intille, J. Beaudin, J. Wolch, and M. Pentz, M, “Investigating the impact of a smart growth community on children’s physical activity contexts using Ecological Momentary Assessment,” Symposium presented at the Society of Behavioral Medicine Annual Meeting, April, 2010.

G.F. Dunton, Y. Liao, S. Intille, D. Spruijt-Metz, J. Wolch, and M. Pentz, “Investigating children’s physical activity and sedentary behavior using Ecological Momentary Assessment with mobile phones,” Abstract presented at the Loma Linda University School of Public Health Healthy People 2010 Conference, March, 2010.

G.F. Dunton, S. Intille, M.A Pentz, A. Tantoushian, and J. Beaudin, "Social and physical contextual influences on children’s physical activity levels: An Ecological Momentary Assessment study," Abstract presented at the Active Living Research Annual Conference, February, 2010.

G.F. Dunton, J. Wolch, S. Intille, D. Hedeker, and M. Pentz, "Investigating the impact of a smart growth community on children’s physical activity contexts using ecological momentary assessment," Abstract presented at the Active Living Research Annual Conference, February, 2010.

G.F. Dunton, S. Intille, J. Beaudin, A. Tantoushian, J. Wolch, and M. Pentz, “Social and physical contextual influences on children’s physical activity levels: An Ecological Momentary Assessment study,” Abstract presented at the Active Living Research Annual Conference, February, 2010.

J. Higa, G.F. Dunton, S. Intille, J. Beaudin, J. Wolch, and M.A. Pentz, “The contexts of children’s sedentary activities: Where, with whom, and how do they feel?” Abstract presented at the Active Living Research Annual Conference, February, 2010.

G.F. Dunton, K. Kawabata, S. Intille, J. Beaudin, J. Wolch, and M.A Pentz, "Measuring the social and physical contexts of children’s physical activity using Ecological Momentary Assessment," Abstract presented at the Active Living Research Annual Conference, February, 2010.

G.F. Dunton, S. Intille, J. Beaudin, and M.A Pentz, "Pilot test of a real-time data capture protocol to assess children’s exposure to and experience of physical activity contexts using mobile phones," Abstract presented at the Annual Scientific Meeting of The Obesity Society, 2009.

M. Rosenberger, W. Haskell, S. Intille, G. Skrinar, and P. Quatromoni, “A comparison of the Actigraph and multiple wireless accelerometers for estimating energy expenditure and classifying activity intensity,” Southwest ACSM Conference, October 2009.

T. Bickmore, A. Gruber, and S. Intille, “Just-in-time automated counseling for physical activity promotion,” in Proceedings of the AMIA Annual Symposium, 2008. PMID: 18999222.

M. Rosenberger, G. Skrinar, W. Haskell, S. Intille, and E. Tapia, “Multiple wireless accelerometers and heart rate accurately predict energy expenditure during level walking,” *Medicine and Science in Sports and Exercise*, 40(5), S62, 2008. Presented to the ACSM National Conference, May 2008.

S. Intille, J. Herigon, W. Haskell, A. King, J. A. Wright, and R. F. Friedman, "Intensity levels of occupational activities related to hotel housekeeping in a sample of minority women," Abstract presented at The Annual Meeting of the International Society of Behavioral Nutrition and Physical Activity, 2006.

T. Bickmore, A. Gruber, and D. Mauer, “A handheld animated advisor for physical activity promotion,” in Proceedings of the AMIA Annual Symposium, 2006. PMID: 17238475.

S.S. Intille, "Context-aware technology for studying everyday behavior in natural settings." Abstract

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presented at Symposium on Leaving the Lab: Telemetric Monitoring for Behavioral Medicine Research. Society of Behavioral Medicine Annual Meeting and Scientific Sessions, 2005.

S. S. Intille, "Ubiquitous computing technology for just-in-time motivation of behavior change," in *Studies in Health Technology and Informatics*, vol. 107(Pt 2), 2004, pp. 1434-7. PMID: 15361052.

S.S. Intille, E. Munguia Tapia, and L. Bao, "Real-time physical activity recognition using multiple wireless accelerometers." Abstract presented at the Scientific Meeting on Objective Monitoring of Physical Activity: Closing Gaps in the Science of Accelerometry, University of North Carolina, December, 2004. Winner of a best poster award.

S.S. Intille, "New technology for studying everyday behavior in natural settings." Abstract presented in Symposium on Real World Psychology: Exploring People's Everyday Lives. Proceedings of the Society for Personality and Social Psychology Annual Meeting, January 2004.

Paper Presentations at Refereed Workshops

S.S. Intille, "Cognition for Healthy People: Some Challenges," in Proceedings of the Assisted Cognition Workshop, 2007.

S.S. Intille, "Statement of interest for the Workshop on Monitoring, Measuring, and Motivating Exercise," in Proceedings of the Workshop on Monitoring, Measuring, and Motivating Exercise: Ubiquitous Computing to Support Physical Fitness, UbiComp 2005.

S.S. Intille, "Ubiquitous computing technology for just-in-time motivation of behavior change," in Proceedings of the UbiHealth Workshop, 2003.

S.S. Intille, K. Larson, and C. Kukla, "Just-in-time context-sensitive questioning for preventative health care," in Proceedings of the AAAI 2002 Workshop on Automation as Caregiver: The Role of Intelligent Technology in Elder Care, AAAI Technical Report WS-02-02. Menlo Park, CA: AAAI Press, 2002, pp. 54-59.

S.S. Intille and A.F. Bobick, "Recognizing team plans from visual primitives," in Proceedings of the IJCAI'99 Workshop on Team Modeling and Plan Recognition, 1999.

S.S. Intille and A.F. Bobick, "Representation and visual recognition of complex, multi-agent actions using belief networks," in Proceedings of the IEEE Computer Society Workshop on the Interpretation of Visual Motion, 1998. Also appears in Proceedings of the ECCV '98 Workshop on the Perception of Human Action, 1998.

A.F. Bobick, S.S. Intille, J.W. Davis, F. Baird, L.W. Campbell, Y. Ivanov, C.S. Pinhanez, A. Schütte, and A. Wilson, "Design decisions for interactive environments: Evaluating the KidsRoom," in Proceedings of the AAAI Spring Symposium on Intelligent Environments, AAAI Technical Report SS-98-02, 1998, pp. 7-16.

A.F. Bobick, J.W. Davis, and S.S. Intille, "The KidsRoom: an example application using a deep perceptual interface," in Proceedings of the Workshop on Perceptual User Interfaces, M. Turk, Ed., 1997, pp. 1-4.

S.S. Intille and A.F. Bobick, "Exploiting contextual information for tracking by using closed-worlds," in Proceedings of the Workshop on Context-Based Vision, 1995, pp. 87-98.

Dissertation

S.S. Intille, "Visual Recognition of Multi-Agent Action," Ph.D. Thesis, Media Arts and Sciences, Massachusetts Institute of Technology, Cambridge, MA, 1999.

Committee:

Advisor: Professor Aaron Bobick (MIT Media Lab, USA)

Professor Eric Grimson (MIT AI Lab, USA)

Professor Hans-Hellmut Nagel (University of Karlsruhe, Germany)

Abstract: In this work, a framework for the representation and visual recognition of multi-agent action is presented, implemented, and evaluated. This project's thesis can be stated most succinctly as follows: that many interesting multi-agent actions can be represented and recognized from noisy perceptual data using visually grounded goal-based primitives and explicit but low-order reasoning about temporal relationships. A primary contribution of this work is an analysis of the issues and tradeoffs involved when selecting a representation for multi-agent collaborative action recognition. The input to the system described in this work is trajectories of object movements obtained from real video scenes.

**Unpublished
Technical
Reports**

S.S. Intille and A.M. Intille, "New challenges for privacy law: Wearable computers that create electronic digital diaries," Massachusetts Institute of Technology, Cambridge, MA, MIT Dept. of Architecture House_n Project Technical Report, 2003.

S.S. Intille, C. Kukla, B. Stigge, and L. Bonanni, "Merging the physical and digital in ubiquitous computing environments," Massachusetts Institute of Technology, Cambridge, MA, MIT Dept. of Architecture House_n Project Technical Report, 2001.

R. Khalaf and S. S. Intille, "Improving multiple people tracking using temporal consistency," Massachusetts Institute of Technology, Cambridge, MA, MIT Dept. of Architecture House_n Project Technical Report, 2001.

**Other
Publications**

S.S. Intille, "Preface," in Handbook of Ambient Assisted Living: Technology for Healthcare, Rehabilitation and Well-being - Volume 11 of Ambient Intelligence, M. Huch, A. Kameas, J. Maitland, P.J. McCullagh, J. Roberts, A. Sixsmith, R. Wichert, J.C. Augusto (Eds), IOS Press, 2012.

S.S. Intille and A.F. Bobick, "Le suivi visuel à l'aide des mondes clos," in Proceedings of the Informatique et Sports Collectifs, 1999, pp. 31-56. (translated to French).

S.S. Intille, "Sport online," <http://www.media.mit.edu/~intille/papers/sp.html>, 1996.

S. S. Intille, "Tracking Using a Local Closed-World Assumption," S.M. Thesis, Media Arts and Sciences, Massachusetts Institute of Technology, Cambridge, MA, 1994.

**Invited
Participation as
Expert Panelist
or Consultant**

Invited Expert Panel Member: Process of establishing validation and standardization of wearable device measures
Wearable Devices & the 24-hour Activity Cycle: A Framework for Developing Daily Activity Recommendations Workshop
Stanford University
Stanford, CA, April 27-28, 2016

Expert participant
NIH Workshop on Canine Aging
University of Washington, Dec 1, 2015 (Virtual participation)

Expert consultant
Federal Highway Administration Exploratory Advanced Research (EAR) Program's initial stage investigation into wearable sensors for public-sector transportation research
Fall, 2015

Expert Judge, Hacking Eating Tracking
Harvard Medical School
Cambridge, MA, September 19, 2015

Panelist: I'm Directing My Health: Embracing Personal Health Informatics in the New Era of Wellness

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Washington Biotechnology & Biomedical Association
Seattle, WA, September 18, 2014

Panelist, "Panel XI: Someone to Watch Over Me: Mobile Device Research and the Sense of the Self"
2013 Advancing Ethical Research Conference
Hynes Convention Center, Boston, MA, November 9, 2013

Invited Expert, National Cancer Institute Big Data and Theory Advancement Workshop
Bethesda, MD, September 19-20, 2013

Panelist: The Future of Health IT for Behavioral Health on the topic of Computational Sensing & Machine Learning
Technology Innovations for Substance Use and Mental Health Disorders Conference (Hosted by the Office of National Drug Control Policy)
White House Eisenhower Executive Office Building, Washington, DC, September 16, 2013

Invited Expert, National Cancer Institute Science of Research and Technology Branch Meeting
Bethesda, MD, February 12, 2013

Panelist
Symposium on the Innovative Use of Technology in Behavioral Health Care
Northeastern University, September 24, 2012

Can Smartphone Apps Change Our Behavior (expert guest)
Radio Boston WBUR Radio Show
May 30, 2012

Expert Panel Member
Active Transportation Expert Panel Meeting
Centers for Disease Control and Prevention
February 27-28, 2012

Invited Panelist
1st IEEE EMBS Unconference on Wearable and Ubiquitous Technology for Health and Wellness
Boston, MA, August 30, 2011

Science of Sedentary Behavior (discussion leader)
Stanford Center for Longevity
Stanford, CA, July 15-16, 2010

mHealth Barriers Workshop: Reducing Barriers to Mobile Technology Usage in Behavioral and Social Science Research
National Institutes of Health
Bethesda, MD, June 7-8, 2010

Objective Measurement of Physical Activity Conference: Best Practices and Future Directions
NIH and the American College of Sports Medicine (ACSM)
Bethesda, MD, July 20-21, 2009

Persuasive Technologies (expert guest)
NPR Science Friday
March 7, 2008

National Academies Keck Futures Conference on Extending the Human Healthspan
Selected participant
Irvine, CA, November, 2007

Stephen S. Intille Curriculum Vitae

Panel: New Technologies for Energy Balance Measurement and Intervention Research
Food and Nutrition Conference & Exposition (FNCE)
Philadelphia, PA, October 2, 2007

Health e-Technologies Initiative RWJF Childhood Obesity Grant
Expert panelist
Summer and Fall, 2006

UCSD e/Balance Phase 1 NCI SBIR
Consultant
2005-2006

Invited Talks or Symposiums

Invited Speaker
“Measuring behavior using mobile technology and micro ecological momentary assessment”
Innovations in Behavioral and Social Health Sciences (i-BSHS) Lecture
Brown University School of Public Health
Providence, RI, November 4, 2016

Invited Speaker
“Measuring Behavior and Motivating Health Behavior Change Using Mobile Technology:
Opportunities and (Difficult) Challenges”
UConn Center for Health and Prevention (CHIP)
Storrs, Connecticut, April 14, 2016

Invited Speaker
Annual Gershoff Symposium
Tufts University Friedman School of Nutrition Science and Policy
Boston, MA, April 8, 2016

Invited Speaker and Panelist
“How to Apply Big Data and Analytics to Food Intake Measures at Population and Individual
Levels”
Big Data and Innovative Approaches to Understanding Dietary Patterns and Health
ILSI North America Special Conference at the Experimental Biology Conference
San Diego, CA, April 2, 2016

Invited Speaker
Standing Up To Sedentary Behavior: Sedentary Behavior Conference
Urbana-Champaign, Illinois, October 16, 2015

Invited Speaker
BostonCHI
Cambridge, MA, October 13, 2015

Invited Speaker
Precision Medicine Initiative Workshop: Public workshop on unique scientific opportunities for the
national research cohort
National Institutes of Health
Bethesda, MD, April 28-29, 2015

Invited Speaker and Panelist
Committee on Evaluating Approaches to Assessing Prevalence and Trends in Obesity Data
Gathering Workshop
National Academies of Sciences, Engineering, and Medicine
Washington, DC, July 28, 2015

Stephen S. Intille Curriculum Vitae

Invited Speaker
Advancing Wellbeing Speaker Series
MIT Media Laboratory
Cambridge, MA, February 26, 2015

Invited Speaker
Motivation and Technology in Physical Activity Meeting
(Sponsored by the Danish Diabetes Association)
University of Copenhagen
Copenhagen, Denmark, January 8, 2015

Invited Speaker
NUCare – Northeastern University Center for Self Care & Health Speaker Series
Northeastern University
Boston, MA, December 1, 2014

Invited Speaker
New Vistas in Emotion and Technology
Northeastern University
Boston, MA, January 31, 2014

Invited Speaker
E-tools and Social Networks for Epidemiology International Colloquium
Cité Internationale Universitaire, Paris, France, May 21, 2013

Invited Speaker
MIT Course HST 936: Global Health Informatics to Improve Quality of Care
Cambridge, MA, April 12, 2013

Invited Keynote Speaker
International Conference on Ambulatory Monitoring of Physical Activity and Movement
(ICAMPAM 2013)
Amherst, MA, June 2013

Invited Keynote Speaker
“Towards Population Scale Measurement of Physical Activity and Sedentary Behavior”
Gait and Clinical Movement Analysis Society Annual Meeting
Cincinnati OH, May 15, 2013

Invited Speaker
“Opportunities to Use Real-time Feedback for Intervention Development”
Centers for Population Health and Health Disparities Annual Meeting
Boston, MA, May 1, 2013

“Food Lord: Generating a Free, High-Quality Food Product Database using Games with a Purpose”
Invited Speaker: Nutrition Games Track
Games for Health Conference
Boston, MA, June 2012

B.F. Skinner Lecturer
Association for Behavior Analysis International (ABAI) Annual Meeting
Seattle, WA, May 27, 2012

Invited Speaker
Session: "New technologies for monitoring physical activity"
The International Conference on Diet and Activity Measurement
Rome, Italy, May 2012

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Invited Speaker

Center for Technology and Behavioral Health, Dartmouth University
Hanover, NH, May 3, 2012

Invited Speaker: “New Technology (using a mobile phone) to Assess Physical Activity Behavior”
Measurement & Evaluation (M&E) Council at American Alliance for Health, Physical Education,
Recreation, and Dance (AAHPERD)
Boston, MA, March 13, 2012

Invited Speaker on “Emerging Technologies for Measuring Individual Exposomes”
National Academy of Sciences
Washington, DC, December, 2011

Invited presentation

MD Anderson Cancer Research Center
Houston, TX, December, 2010.

Invited Speaker

Research Society on Alcoholism 2010 Satellite Symposium
NIH NIAAA
San Antonio, TX, June 25, 2010

Invited Presentation

Second IEEE Workshop on Interdisciplinary Research on E-health Services and Systems
Montreal, QC Canada, June 14, 2010
(Presentation made by Dr. Fahd Albinali)

Keynote Speaker

Pervasive Health International Conference
Dublin, Ireland, May 2011.

Invited Symposium Speaker

3rd International Congress on Physical Activity and Public Health
Toronto, Canada, May 5-8, 2010

Invited Colloquia Speaker

Department of Preventive Medicine, Northwestern University
Chicago, IL, March 16, 2010

Workshop on New Frontiers in Measurement: Phenotypes, Endophenotypes, and Envirotypes for
Genetic and Behavioral Studies of Nicotine Dependence
NIH Office of Behavioral and Social Sciences Research (OBSSR)
Baltimore, MD, February 24, 2010

American Public Health Association Annual Meeting
Philadelphia, PA, November, 2009

Facilitating Interdisciplinary Research: Methodological and Technological Innovation in the
Behavioral and Social Sciences
National Institutes of Health
Bethesda, MD, October, 2009

Science of Behavior Change

National Institutes of Health
Bethesda, MD, June 15-16, 2009

Stephen S. Intille Curriculum Vitae

International Conference on Dietary and Physical Activity Assessment Methods (ICDAM)
Washington, DC, June 2009

Keynote: Persuasion, Sensors, and Everyday Life: Some Challenges
The Fourth International Conference on Persuasive Technology
Claremont, CA, April, 2009

Invited Talk: Science Meeting on Physical Activity and Substance Abuse
National Institute of Drug Abuse, National Institutes of Health
Bethesda, MD, June 5-6, 2008

Invited Talk: Emerging Mobile Technologies for Health Monitoring
In session: New Technologies for Energy Balance Measurement and Intervention Research
Food and Nutrition Conference and Expo (FNCE)
Philadelphia, PA, October 2, 2007

Invited Talk: Using Technology to Support Preventive Care Outside of the Hospital
HomeCentric Industrial Liaison Conference
Cambridge, MA, September 25, 2007

Instructor: 3rd IEEE-EMBS International Summer School and Symposium on Medical Devices and
Biosensors
Boston, MA, September 4-5, 2006

Create New Business Models By Making Health Fun
Healthcare Unbound: A Conference & Exhibition on the Convergence of Consumer and Healthcare
Technologies
Boston, MA, July 17-18, 2006.

Keynote: The Goal: Smart People, Not Smart Homes
International Conference on Smart Homes & Beyond (ICOST 2006)
Belfast, UK, June, 2006.

Invited Talk: Using Ubiquitous Computing Technology to Create Smart People, Not Smart Homes
Duke University
Durham, NC, April 10, 2006.

Using a Live-In Laboratory to Study Novel Proactive Health Technologies
Distributed Diagnostics and Home Healthcare Conference
Washington, DC, April 3, 2006.

Invited Talk: The PlaceLab
Harvard University AI Group
Cambridge, MA, March 16, 2006.

Honorary Gilbreth Lecture: Ubiquitous Computing Technologies to Encourage Aging in Place
National Academy of Engineering Annual Meeting
Washington, DC, October 9, 2005.

Invited Demonstration of Technology: Wearable and Home-Based Sensors to Foster Independence
National Commission for Quality Long-term Care
Washington, DC, July 22, 2005.

Consumer-Based Health Tracking Using Sensor-Enabled Homes and Phones
Smart Homes and Smart Phones: Emerging Clinical and Business Models
Boston, MA, July 12, 2005.

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Keynote Address: Proactive Health Systems for the Home Using Ubiquitous and Wearable Computing
Healthcare Unbound: A Conference & Exhibition on the Convergence of Consumer and Healthcare Technologies
Boston, MA, July 11-12, 2005.

Tools for Studying and Developing Context-Aware, Proactive Health Systems for the Home
Intel Corporation
Hillsboro, OR, April 9, 2005

Innovative Technology to Advance eHealth Measurement and Methods
Critical Issues in eHealth Research Conference
Sponsored by the National Cancer Institute
Bethesda, MD, June 9-10, 2005

Real-Time, Automatic Activity Recognition from Accelerometers: Challenges and Health Applications
University of Massachusetts
Amherst, MA, March 21, 2005

Tools for Studying and Developing Just-in-Time Proactive Health Technologies
Stanford School of Medicine
February 9, 2005

Tools for Studying and Developing Context-Aware Systems for the Home
Intel Research Berkeley
February 8, 2005

Ubiquitous Computing Technologies to Encourage Aging in Place
Japan-America Frontiers of Engineering Symposium
(Sponsored, in part, by the National Academy of Engineering)
Keihanna, Japan, November 2004

Panel: Video Visions of the Future: A Critical Review
With Eric Bergman, Arnold Lund, Hugh Dubberly, Bruce Tognazzini
CHI 2004
Vienna Austria, April 2004

Keynote Address: Ubiquitous Computing Technologies to Encourage Aging in Place
Healthcare Unbound: A Conference & Exhibition on the Convergence of Consumer and Healthcare Technologies
Cambridge, MA, July 8-9, 2004.

Tools for Studying and Developing Context-Aware Systems for the Home
IBM Research
Yorktown, NY, May 24, 2004.

Technology Demonstration
Center for Aging Services Technologies (CAST) Congressional Demo
Washington, DC, March, 2004

Technological Innovations Real-Time Data Capture
National Cancer Institute Working Group Meeting: Capturing Physical Activity and Diet in Real-Time
Arlington, VA, January 22, 2004.

Tools for Studying and Motivating Health Behavior Change in Natural Settings

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Boston Medical Center
Boston, MA, December 17, 2003.

Tools for Studying and Developing Context-Aware Systems for the Home
Boston University
Boston, MA, November 6, 2003.

Technological Innovations
The Science of Real-Time Data Capture Self-Reports in Health Research Conference
Charleston, SC, September 2003.

Keynote: Designing and Evaluating Technology for Supportive Homes
IEEE/ASME International Conference on Advanced Intelligent Mechatronics
Kobe, Japan, July 2003

Preventive Health Care
eHealth Institute's eHealth Developers' Summit
Tempe, Arizona, November 2002

Future Computing Environments and Proactive Health Care
Center for Future Health, University of Rochester
Rochester, NY, October 2002

The House_in Living Laboratory
Greater Boston SIGCHI
Boston, MA, September 2001

Designing Perceptually-Based Interactive Environments
Brandeis University
Waltham, MA, March 1999.

Adaptive Interfaces Entrepreneurial Workshop Case Presentation
The Harvard Cyberposium
Cambridge, MA, February 1998.

Sports and Technology: Dynamic Scene Understanding
The National Institute of Sport and Physical Education (INSEP), Campus Olympique
Paris, France, June 1996.

Invited Workshop Participation

Invited Expert, Computing Community Consortium and National Science Foundation's Computing Visions 2025 Workshop, Arlington, VA, January 22-23, 2015.

Invited Expert, Computing Community Consortium and National Science Foundation's Extensible Distributed Systems Workshop, Arlington, VA, January 21-22, 2015.
(Panelist on Analytics panel)

Invited Expert Panelist
Office of Disease Prevention (ODP), National Institutes of Health Workshop on "Physical Activity and Disease Prevention Research Gaps and Goal-Setting: How Do We Get More People Moving More?"
Bethesda, MD, December 2012

Invited Expert Participant
NCI Workshop on Emotion and Stress
Washington, DC, April 2012

Invited Panel Speaker

Stephen S. Intille Curriculum Vitae

Workshop on Interactive Systems in Healthcare
Washington, DC, October 22, 2011

Invited session moderator at the CIMIT Innovation Workshop, Massachusetts General Hospital,
April 26, 2011.

Making a Difference: Connecting Innovators in Elder Care
Massachusetts General Hospital Geriatric Medicine Unit and CIMIT
Boston, MA, June 2008

Working Group Conference: "Living Laboratory of Aging"
Hebrew SeniorLife / BIDMC
Brookline, MA, 2008

Home of the Future ... Healthcare Without Walls
CIMIT Senior Advisory Think Tank
Cambridge, MA, 2004

MGPO Office of the Future
CIMIT
Cambridge, MA, 2004

MIT/GM HVI Workshop (Vehicle of the Future)
Detroit, MI, October 2003

Advisory Boards

Member of Working Group and External Advisor to the Process of Care Research Branch, National
Cancer Institute (2014)

Expert Working Group member for the Process of Care Research Branch within the Behavioral
Research Program in the Division of Cancer Control and Population Sciences, National Institutes of
Health (2013-2014)

Expert Advisory Panel Member, National Cancer Institute's Science of Research and Technology
branch (2012-2014)

NIH and the National Cancer Institute (NCI) Planning Committee for a Repository for Algorithm
Development for Ambulatory Research (RADAR) (2012-2014)

Scientific Advisory Board Member and member of "expert team" working group on emerging
technologies, Center for Technology and Behavioral Health, Dartmouth University, PI: L. Marsch
(2012-2016, renewed 2016-2021 with roles as advisory consultant for the Core on Emerging
Technologies and Data Analytics (PI: Kotz))

Steering Committee Member, European research project: UBhave Project: Ubiquitous and social
computing for positive behaviour change, PI: Y. Yardley, U. of Southampton. (2011-2015)

Teaching - Courses

Northeastern HINF 5300: Personal Health Interface Design & Development

A new transdisciplinary project-based course on the design of personal health interfaces; the first
offering focused on reinventing healthcare with Google Glass technology. Fall 2013 (8 UG, 13G
students, co-taught with Rupal Patel), Fall 2014 (2 UG, 14 G), Fall 2015 (11 G), Fall 2016 (11 G).

Northeastern HINF 5301: Personal Health Technologies: Field Deployment and System Evaluation

A new transdisciplinary project-based course on the evaluation of personal health informatics
systems. Spring 2014 (Co-taught with Rupal Patel)

Northeastern CS 4520 (UG)/ CS5520 (G): Mobile Application Development

A new and intensive, project-based course on the design and development of Android mobile applications, where projects are targeted in the health domain. Summer 2011 (17 UG, 15 G students), Fall 2012 (9 UG, 46 G students), Spring 2013 (13 UG, 22 G + 1 G directed study), Fall 2013 (13 UG, 21 G), Spring 2014 (14 UG, 15 G), Fall 2014 (4 UG, 18 G), Spring 2015 (18 UG, 18 G), Spring 2016 (14 UG, 28 G), Spring 2017 (15 UG, 23 G).

Northeastern CS 5340: Human/Computer Interaction

Project-based graduate introduction to topics in human-computer interaction, with projects targeted in the health domain. Spring 2012 (13 G students)

Northeastern PHTH 5228: Advances in Measuring Behavior

A new survey and project-oriented course examining current and emerging methods of measuring human behavior known to impact human health. Discusses some of the most common instruments used to measure everyday behaviors and considers how emerging technologies may change how these behaviors are measured in the future. Fall 2011 (1 UG, 3 G students), Spring 2013 (2 UG, 2 G), Spring 2014 (3 G), Spring 2015 (1 UG, 3 G), Spring 2016 (8 G).

MIT 4.208: Designing Persuasive Environments and Technologies

A new multi-disciplinary graduate seminar course on the development of computer technologies and ubiquitous computing environments that measure and motivate behavior change. (2002-04).

MIT 4.208: User Interface Design Studio

A new undergraduate and graduate course for computer scientists, engineers, architects, and designers teaching methods of user interface design applied to next-generation physical and digital environments and future interactive user interfaces. (2000-01).

MIT 4.185: Home/Community of the Future

Co-taught with K. Larson. Multi-disciplinary graduate seminar. Taught sessions on technology and computational sensing. (1999).

**Teaching -
Advising**

Postdocs: Fahd Albinali (2008-2010), Jonathan Lester (2010).

Research Staff: Jason Nawyn (2008-2011), Yi Han (2010), Jennifer Beaudin (2003-09).

Graduate Students (advising/co-advising): Qu Tang (NEU COE Ph.D., current), Adita Ponnada (NEU PHI Ph.D., current), Binod Thapa Chhetry (NEU PHI Ph.D., current), Aida Ehyaei (NEU COE Ph.D. 2014-2016), Stephen Flaherty (NEU PHI Ph.D., 2013-14), Shang Ma (NEU PHI Ph.D., 2013-2014), Yifei Sun (NEU ECE MS 2013), Tony Lazenka (NEU CS MS 2013), Selene Mota (MIT Computation and Design, Ph.D.), Anh Dang Viet Nguyen (MIT EECS M.Eng. 2011), Ned Burns (MIT MAS S.M., 2010), Clay Williams (MIT EECS M.Eng. 2009), Hyon Lee (MIT EECS M.Eng. 2009), Emmanuel Munguia Tapia (MIT MAS Ph.D. 2008, MAS S.M. 2003), Randy Rockinson (MIT MAS S.M. 2008), Kenneth Cheung (MIT Arch S.M. 2008), Manu Gupta (MIT MAS S.M. 2008), Louis Lopez (MIT EECS M.Eng. 2005), Jason Nawyn (MIT MAS, 2005), Pallavi Kausik (MIT MAS, 2005), Joyce Ho (MIT EECS M.Eng. 2004), Jacob Hyman (MIT EECS M.Eng. 2003), Ling Bao (MIT EECS M.Eng. 2003), John Rondoni (MIT EECS M.Eng. 2003), Reid Williams (MIT EECS M.Eng. 2003), Neil Chungfat (MIT EECS M.Eng. 2002), Rania Khalaf (MIT EECS M.Eng. 2001), Joseph Su (MIT MechE S.M. 2001), Byron Stigge (MIT Arch S.M. 2001).
M.S. thesis reader: Charlie DeTar (MIT MAS, 2009), John Moore (MIT MAS, 2009), Sean Wheeler (MIT MAS 2009), Karen Liu (MIT MAS, 2004).

MS capstone advisor: Stephanie Santana (NEU HS, 2016-2017), Caitlin Haynes (NEU HS, 2015)

Non-thesis students mentored with publications: Dharam Maniar (NEU CS MS, 2014-2016), Rahul Verma (2015), Bin Bo (NEU CS MS 2014), Tricia Povilonis (NEU EXCS MS, 2014)

Ph.D. Committee: Lazlo Ring (NEU CCIS, current), Mansoor Pervaiz (NEU PHI, current), James Lin (NEU CCIS, 2015), Laura Pfeifer (NEU CCIS, 2012-2013), Shyamal Patel (NEU COE, 2012), Ari Benbasat (MIT MAS, 2004).

Ph.D. Exam Committee: Mansoor Pervaiz (NEU PHI, 2016), Zessie Zhang (NEU PHI, 2015), Mansoor Pervaiz (NEU PHI, 2015)

External Ph.D. Committee: Eldin Dzibur (USC, current), Andrea Mannini (Scuola Superiore di Studi Universitari e di Perfezionamento CS, 2013), Shivayogi Hiremath (Pittsburgh, 2011-13), Cory Cornelius (Dartmouth, 2012-2013).

Visiting or special students: Andrea Mannini (2012), Vincent Zheng (2010), Noah MacNeil (2009), Bruno Lepri (2008), Aydin Oztoprak (2008), Antonio Rodriguez (2008), Till Pieper (2006), Jon Lin (2002), Joachim Bottger (2000)

Senior project advisor: MIT EECS Senior projects: Matthew Marshall (MIT EECS 2010), Pamela Hollingsworth (MIT EECS 2006), Bill Walsh (MIT EECS 2006), Alex Mekelburg (MIT MechE, 2005).

NEU undergraduate research students: Roger Cornell (2015), Daniel Speroni (2014), Kati Philips (2012), Vy Nguyen (2012).

NEU undergraduate independent major advisor: Brenna Sorkin (2016)

MIT undergraduate research students: Cynthia Lu (2010), Alec Poitzsch (2010), Molly McShane (2010), Matt Falk (2009), Peter McKee (2009), Tobe Nwanna (2009), Anh Dang Viet Nguyen (2008), David Wen (2007), Aiko Nakano (2006), Eleojo Ocholi (2005-2006), Melinda Tang (2005), Leevar Williams (2005-2006), Mikala Streeter (2006), Kevin Luu (2005), Qian Wang (2005), Dan Guarda (2004), Amanda Seybold (2004), Christina Hawkes (2004), Armando Valdes Samaniego (2003), Jesse Lacika (2003), Michael Ehrenberg (2003), Vivienne Lee (2002-2003), Peter Sung (2003), Sachin Gupta (2003), Tian He (2003), Alan Mcconnel (2003), Waseem Bakr (2002-2003), Isaac Rosmarin (2002), Folu Okunseinde (2001-2002), Brian Theisen (2001), Jacob Kitz (2000), Anthony Hui (1999), Kamal Mokeddem (1998), Qian Wang and Nick Lesica (1997-1998), Ann Bui and Andreas Argyriou (1995), and Salil Pitroda (1994).

Other undergraduate research students: Lana Roskin (Wellesley, 2010), Collette Whitaker (Wellesley, 2009), Shyam Srinivasan (CalTech, 2008), Katie Zarroli (Wellesley, 2006), Alex Higuera (2006).

Internships: David Cheff (2005-2006), Evelyn Kapusta (2003), Isabel Ancona (2002), Meghann Evershed (2002), Suzanne Seale (2002).

Northeastern directed/independent study courses: Rohan Joshi (CS, Spring 2014), Rebecca Joachim (HS, Fall 2012), Kati Philips (HS, Fall 2012)

**Teaching -
Peer-Reviewed
Seminar
Courses**

SIGGRAPH course: "Building Interactive Spaces" (with C. Pinhanez)
Summer 2002 (full-day) and 2003 (half-day).

**Teaching -
Seminars**

MIT Independent Activities Period '04
Visions of the Future: Screening and Making Concept Videos.

MIT Independent Activities Period '03
Movie Making: Inventing the Future of Ubiquitous Computing.

MIT Independent Activities Period '02
Designing a User Interface "Age Suit."

MIT Independent Activities Period '01
Hack a Home of the Future Computer Interface.

MIT Independent Activities Period '00 lunchtime seminar series
Inventing a Home of the Future.

**Teaching -
Other
Experiences**

Participant, Designing a Flipped or Hybrid Course, Northeastern University CATL, July 25 and Aug 1, 2016

Core faculty, NIH mHealth Summer Training Institute, 2012.

Occasional guest lectures in MIT Media Laboratory courses (2004-2010).

Stephen S. Intille Curriculum Vitae

Taught occasional graduate seminar class meetings on topics in computer vision (1993-1999).

Tutored undergraduates in introductory computer science, University of Pennsylvania (1991-92).

Selected as a residential advisor. Organized educational, cultural, and social programming for a floor of 80 students. Other responsibilities included dispute resolution and counseling (1990-1992).

Engineering Committee Representative, University of Pennsylvania. Undergraduate student representative on faculty committee investigating ways to improve teaching. Introduced several proposals (1991-92).

Student Committee on Undergraduate Education, University of Pennsylvania. Advanced proposals to the administration for improving undergraduate academic and residential life (1991-92).

Non-Academic Interests

Cooking, canine clicker training, and hiking and other outdoor activities.

Citizenship

United States of America