

Stacey Kuznetsov

Human Computer Interaction Institute
Carnegie Mellon University
5000 Forbes Ave, Pittsburgh, PA 15213

stace@cs.cmu.edu
<http://staceyk.org>
Citizenship: U.S.A.

Education

- Ph.D., Human Computer Interaction** **2008 – Present**
School of Computer Science, Human Computer Interaction Institute
Carnegie Mellon University, Pittsburgh, PA
Advisors: Eric Paulos, Scott E. Hudson
- B.A., Double Major in Computer Science and Philosophy** **2002 – 2006**
New York University, New York, NY
Suma Cum Laude, 4.0/4.0 Computer Science GPA, 3.9/4.0 Overall GPA

Professional Experience

- Microsoft Research** **2011**
Socio Digital Systems Group, Cambridge, UK
Research Intern with Tim Regan and Alex Taylor
- Google, Inc.** **2006 – 2008**
New York, NY
Software engineer, search quality team
- Aphrodisias Graeco – Roman Excavations** **2004, 2005, 2006**
Archaeological excavations and survey, Dandalaz Valley, Turkey
GIS researcher, compiled GIS database and predictive models to locate ancient sites
- New York University Computer Science Department** **2005 – 2006**
Courant Institute of Mathematical Sciences, New York, NY
Research assistant, pursued projects in systems and user interfaces
- New York University Social Sciences and Statistics Group** **2004 – 2005**
Elmer Holmes Bobst Library, New York, NY
Open source GIS developer, integrated Google's Keyhole, ESRI ArcInfo, and GRASS
- Caesar & Napoli, Attorneys at Law** **2002 – 2004**
New York, NY
Paralegal, researched, compiled and defended immigration cases

Refereed Conference Papers

A Low-Tech Sensing System for Particulate Pollution. Stacey Kuznetsov, Scott E. Hudson, Eric Paulos. *Accepted to ACM TEI 2014*. (27% acceptance rate)

Community Engagements with Living Sensing Systems. Stacey Kuznetsov, Will Harrigan-Anderson, Scott E. Hudson, Haakon Faste, Eric Paulos. *ACM Creativity and Cognition (C&C) 2013*. (25% acceptance rate)

At the seams: DIYbio and opportunities for HCI. Stacey Kuznetsov, Alex S. Taylor, Tim Regan, Nicolas Villar, Eric Paulos. *ACM Designing Interactive Systems (DIS) 2012*. (19.8% acceptance rate)

Nurturing Natural Sensors. Stacey Kuznetsov, William Odom, James Pierce, Eric Paulos. *ACM UbiComp 2011*. (16.6% acceptance rate). **Best Paper Award**.

Red balloon, green balloon, sensors in the sky. Stacey Kuznetsov, George Noel Davis, Eric Paulos, Mark D. Gross, Jian Chiu Cheung. *ACM UbiComp 2011*. (16.6% acceptance rate)

Ceci N'est Pas Une Pipe Bombe: Authoring Urban Landscapes with Air Quality Sensors. Stacey Kuznetsov, George Noel Davis, Jian Chiu Cheung, Eric Paulos. *ACM SIGCHI 2011*. (26% acceptance rate)

Breaking Boundaries: Strategies for Mentoring through Textile Computing Workshops. Stacey Kuznetsov, Laura Trutoiu, Casey Kute, Iris Howley, Dan Siewiorek, Eric Paulos. *ACM SIGCHI 2011*. (26% acceptance rate)

Rise of the Expert Amateur: DIY Projects, Communities, and Cultures, Stacey Kuznetsov and Eric Paulos, *ACM NordiCHI 2010*. (27% acceptance rate)

WallBots: Interactive Wall—Crawling Robots In the Hands of Public Artists and Political Activists, Stacey Kuznetsov, Eric Paulos, and Mark D. Gross, *ACM Designing Interactive Systems (DIS) 2010*. (15% acceptance rate)

Participatory Sensing in Public Spaces: Activating Urban Surfaces with Sensor Probes, Stacey Kuznetsov and Eric Paulos, *ACM Designing Interactive Systems (DIS) 2010*. (15% acceptance rate)

UpStream: Motivating Water Conservation with Low—Cost Water Flow Sensing and Persuasive Displays, Stacey Kuznetsov and Eric Paulos, *ACM SIGCHI 2010*. (22% acceptance rate)

The Effectiveness of Haptic Cues as a Ubiquitous Memory Aid, Stacey Kuznetsov, Anind Dey, and Scott Hudson, *Pervasive Computing*, 2009. (19% acceptance rate)

Rethinking the progress bar, Chris Harrison, Brian Amento, Stacey Kuznetsov, and Robert Bell. *ACM UIST 2007: Proceedings of the 20th annual ACM symposium on User interface software and technology*. (19% acceptance rate)

Motivations of contributors to Wikipedia, Stacey Kuznetsov, *ACM SIGCAS Vol. 36, Issue2, 2006*

Edited Articles

Expanding Our Visions of Citizen Science. Stacey Kuznetsov. In *Community + Culture Forum* (Le Dantec, C., contributing editor, Stolterman, E. and Wakkary, R., EICs). *ACM Interactions. Volume XX Number 4, July + August 2013*. ACM Press, New York, NY.

Refereed Abstracts & Workshop Papers

Food, scale, and DIYbio. Stacey Kuznetsov. *ACM SIGCHI 2012 Workshop, Food and Interaction Design*.

WallBots: Activating Public Surfaces with Playful Interactive Wall–Crawling Robots, Stacey Kuznetsov, Eric Paulos, Mark D. Gross and George Davis, *ACM NordiCHI 2010 Workshop, Designing Robotic Artifacts with User– and Experience– Centered Perspectives*

Bridging the Gap: Reconstructing Roman Aqueducts with GIS, Stacey Kuznetsov, Ryan Hughes and Christopher Ratte, *Archaeological Institute of America Joint Annual Meeting 2009, Proceedings on Aphrodisias, Turkey*

Low – cost Water Sensor to Motivate Sustainable Water Use, Stacey Kuznetsov, Eric Paulos, *ACM SIGCHI 2009 Workshop, DIY for CHI: Methods, Communities, and Values of Reuse and Customization*

Algorithms and optimizations for generating concise website titles, Stacey Kuznetsov, Gunes Erkan, and Jeremy Silber, *Google Tech Talk 2008*

Book Chapters

Air Quality Balloons. Stacey Kuznetsov. Chapter contribution in *Extraordinary Projects for Ordinary People: Do-It-Yourself Ideas from the People Who Actually Do Them*. Edited by Noah Weinstein and Instructables.com, Skyhorse Publishing, 2012.

The Rise of the Expert Amateur: Citizen Science and Neo–Volunteerism, Eric Paulos, Sunyoung Kim, Stacey Kuznetsov. Chapter contribution in *From Social Butterfly to Engaged Citizen*. Edited by Marcus Foth, MIT Press, 2010.

Workshops Organized

(DIY)biology: Designing for Open Source Science. Stacey Kuznetsov, Alex Taylor, Eric Paulos, Carl DiSalvo, Tad Hirsch. *ACM DIS'12 Workshop in Newcastle, UK, June 12, 2012*

HCI, Politics and the City: Engaging Grassroots Communities for Reflection and Action. Stacey Kuznetsov, William Odom, Vicki Moulder, Carl DiSalvo, Tad Hirsch, Ron Wakkary, Eric Paulos. *ACM SIGCHI'11 Workshop in Vancouver, Canada, May 7–8*.

What if you could break boundaries? Exploring Textile Computing as a Medium for Mentoring Children Everywhere. Laura C. Trutoiu, Stacey Kuznetsov, Casey Kute. Workshop at the 2011 Grace Hopper Celebration of Women in Computing Conference.

Teaching

- CMU's Summer Academy for Mathematics + Science** 2012-2013
Project leader/instructor; implemented robotics curriculum for high school students
- Applied Gadgets, Sensors and Activity Recognition in HCI** 2012
Teaching Assistant for Scott E. Hudson
- Basic Interaction Design** 2011
Teaching Assistant for Eric Paulos and Haakon Faste

Students Supervised

- Will Harrigan – Anderson** 2011
Supervised independent study with Eric Paulos, designing and building soil bio – sensing system
- George Noel Davis** 2010 – 2011
Supervised independent study with Eric Paulos, designing and building networked air quality sensors
- Jian Chiu Cheung** 2010
Supervised independent study with Eric Paulos, designing visualizations for real – time sensor data

Invited Talks

- University of Colorado Boulder** 2013
HCC Community Seminar, October 30
Beyond data collection: nurturing participation, expertise, and activism in citizen science
- University of North Carolina at Charlotte** 2013
HCI Seminar Series, September 27
Beyond data collection: nurturing participation, expertise, and activism in citizen science
- Georgia Institute of Technology** 2012
Nokia Invited Lecture Series on Mobile and Future Technologies, November 14
Nurturing Community Engagement with Participatory Sensing Systems
- Culture Lab, Newcastle University** 2011
Textile Computing Workshop, Invited Presentation August 4
From the bottom up: re-envisioning digital and organic materials that support grassroots movements

Service and Outreach

Mentoring through wearable computing 2010 – 2012

Organizing and leading workshops to introduce Gwen's Girls (an organization providing services to at-risk, low-income girls) to electronics as a creative and healing outlet

Women@SCS 2008 – Present

Organizing presentations and workshops to introduce middle school girls to technology

Technical reviewer 2009 – Present

CHI '09, '10, '11, '12, '13; TEI '10, '11; DIS '10, '12; UbiComp'11, IEEE Pervasive Computing

Program committee 2012 – Present

TEI'14 Publicity Chair

International Conference on Creativity and Cognition (C&C 2013)

ICT for Sustainability (ICT4S) conference 2013

DIS'12 Demonstrations chair

Theme Issue on Persuasion, Influence, Nudge and Coercion (PINC'12)

Awards and Fellowships

National Science Foundation 2008 – 2011

Graduate Research Fellowship

Graduate Student Small Project Help (GUSH) 2010

Carnegie Mellon University, \$500 award

Ranieri Travel Grant 2006

For travel expenses to Aphrodisias, Turkey

Computer Science Department Award 2006

For Academic Excellence in the Honors Program (2006)

Columbia University 2000 – 2002

Science Honors Program, New York, NY

Johns Hopkins University 1998, 2000

Center for Talented Youth summer program, Baltimore, MD

NYU Merit Scholarship 2002 – 2006

Selected Press

Instructables (2012): Arduino PCR (thermal cycler) for under \$85 featured instructable, summer 2012

Adafruit (2012): Arduino PCR (thermal cycler) for under \$85 featured project, summer 2012

Slashdot (2010): DIY Air Quality Balloons, August 6.

Gizmodo (2010): Brighten Your Backyard with Air Quality Indicating Balloons, August 6.
BoingBoing (2010): HOWTO: glowing balloons that show air quality, August 5.
Make Online (2010): How – To: Glowing balloons change color to show air quality, August 6
CMU (2010): Air Quality Balloons, featured on Carnegie Mellon front page, summer 2010
Instructables (2010): Air quality balloons, featured instructable, summer 2010
Inhabitat (2010): DIY: Make Your Own Giant LED Balloons to Measure Air Quality
Trendhunger (2010): Glowing LED Balloons Air Quality Balloons Will Keep You Posted on How Clean Your Air is, August 6
HacknMod(2010): Illuminated LED Air Quality Check Balloons, August 6
Instructables (2010): Wallbots: Autonomous Magnetic Robots that Traverse Vertical Surfaces, featured instructable, summer 2010
Robot Living (2009): Wallbots, August 11
Make Online (2009): Wallbots: Robots that climb your fridge!, August 10
Circuit Lake (2009): Arduino Low Cost Water Flow Sensor, June 29
Make Online (2009): Low cost water sensor to motivate sustainable behavior, August 26
Instructables (2009): Low Cost Water Flow Sensor and Ambient Display, featured instructable, fall 2009