

# Stacey Kuznetsov

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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

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*

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  
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

- Georgia Institute of Technology** 2012  
Nokia Invited Lecture Series on Mobile and Future Technologies  
Nurturing Community Engagement with Participatory Sensing Systems, November 14
- Culture Lab, Newcastle University** 2011  
Textile Computing Workshop, Invited Presentation  
From the bottom up: re-envisioning digital and organic materials that support grassroots movements, August 4

## 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

<b>National Science Foundation</b>	<b>2008 – 2011</b>
Graduate Research Fellowship	
<b>Graduate Student Small Project Help (GUSH)</b>	<b>2010</b>
Carnegie Mellon University, \$500 award	
<b>Ranieri Travel Grant</b>	<b>2006</b>
For travel expenses to Aphrodisias, Turkey	
<b>Computer Science Department Award</b>	<b>2006</b>
For Academic Excellence in the Honors Program (2006)	
<b>Columbia University</b>	<b>2000 – 2002</b>
Science Honors Program, New York, NY	
<b>Johns Hopkins University</b>	<b>1998, 2000</b>
Center for Talented Youth summer program, Baltimore, MD	
<b>NYU Merit Scholarship</b>	<b>2002 – 2006</b>

## 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