SUNYOUNG KIM | CURRICULUM VITAE

Ph.D. Candidate
Human-Computer Interaction Institute
School of Computer Science
Carnegie Mellon University

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EDUCATION

expected Summer 2014
Ph.D. in Human-Computer Interaction
Human-Computer Interaction Institute, School of Computing
Carnegie Mellon University, Pittsburgh, PA, USA
Committee: Eric Paulos (co-chair), Jennifer Mankoff (co-chair), Niki Kittur, Jason Ellis
Thesis: "*SENSR: a flexible framework for authoring mobile data-collection tools for citizen science*"

2008
M.S. in Human-Computer Interaction
School of Interactive Computing
Georgia Institute of Technology, Atlanta, GA, USA
Advisor: Gregory Abowd
Thesis: "*Are you sleeping?: sharing portrayed sleeping status within a social network*" (C.1)

2000
B.S. in Housing and Interior Design & Architecture
Yonsei University, Seoul, Korea

RESEARCH INTERESTS

Ubiquitous computing, Mobile computing, Social computing, CSCW, Crowdsourcing, Citizen Science, Sustainability, Everyday health and wellbeing

PROFESSIONAL EXPERIENCES

2008-Present
Carnegie Mellon University, Pittsburgh, PA, USA
Research Assistant, Human-Computer Interaction institute

Summer 2010
IBM Research Almaden, CA, USA
Research Intern, Mobile computing group
Project: Creek Watch, a mobile application for citizen water monitoring
Supervisor: Jeff Pierce

Summer 2008
Intel Research Seattle, WA, USA
Research Intern
Project: Carubi, tracking, optimizing and predicting daily driving patterns
Supervisor: Daniel Avrahami

2007-2008
Georgia Institute of Technology, Atlanta, GA, USA
Research Assistant, School of Interactive Computing

Fall 2006
Georgia Institute of Technology, Atlanta, GA, USA
Research Assistant, College of Architecture

2003-2006
Daum Communications, Seoul, Korea
Assistant Manager, Search Portal Division

| 2002-2003 | **Neogenis**, Seoul, Korea
Interaction Designer, HCI Consulting Team |
| 2000-2002 | **CVNet, Samsung Corp**. Seoul, Korea
Interaction Designer, Intelligent Apartment Team |

PUBLICATIONS

Journal Kim, S., Paulos, E. & Mankoff, J. (2014) Exploring the Opportunities of the Adoption and Use of Mobile Technology to Promote Public Participation in Small Nonprofit Organizations (Under review)

Peer-Reviewed Conference Papers

C.9 Kim, S., Paulos, E. & Mankoff, J. (2013) inAir: a longitudinal study of indoor air quality measurements and visualizations, In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 2745-2754). ACM [Acceptance rate: 20%]

C.8 Kim, S., Mankoff, J., & Paulos, E. (2013). Sensr: evaluating a flexible framework for authoring mobile data-collection tools for citizen science. In Proceedings of the 2013 conference on Computer supported cooperative work (pp. 1453-1462). ACM. [Acceptance rate: 35.6%]

C.7 Kim, S., Robson, C., Zimmerman, T., Pierce, J., & Haber, E. M. (2011). Creek watch: pairing usefulness and usability for successful citizen science. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 2125-2134). ACM. [Acceptance Rate: 26%]

C.6 Kim, S., & Paulos, E. (2011). Practices in the creative reuse of e-waste. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 2395-2404). ACM. [Acceptance Rate: 26%]

C.5 Kim, S., & Paulos, E. (2010). InAir: sharing indoor air quality measurements and visualizations. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 1861-1870). ACM. [Acceptance Rate: 22%]

C.4 Kim, S., Paulos, E., & Gross, M. D. (2010). WearAir: expressive t-shirts for air quality sensing. In Proceedings of the fourth international conference on Tangible, embedded, and embodied interaction (pp. 295-296). ACM. [Acceptance Rate: 34%]

C.3 Kim, S., & Paulos, E. (2009). Listening to air quality. In Proceedings of the First international conference on Expressive Interactions for Sustainability and Empowerment (pp. 9-9). British Computer Society.

C.2 Kim, S., & Paulos, E. (2009). inAir: measuring and visualizing indoor air quality. In Proceedings of the 11th international conference on Ubiquitous computing (pp. 81-84). ACM. [Acceptance Rate: 12.9%]

C.1 Kim, S., Kientz, J. A., Patel, S. N., & Abowd, G. D. (2008). Are you sleeping?: sharing portrayed sleeping status within a social network. In Proceedings of the 2008 ACM conference on Computer supported cooperative work (pp. 619-628). ACM. [Acceptance Rate: 23%]

Book Chapters Paulos. E., Kim. S., & Kuznetsov. S. (2010). *"The Rise of the Expert Amateur: Citizen Science and Micro –Volunteerism"*, chapter contribution in From Social Butterfly to Engaged Citizen. Edited by Marcus Foth, MIT Press, 2010

Doctoral Consortium Kim, S. (2012). A flexible tool for participating, authoring, and managing citizen science campaigns on-the-go. In Proceedings of the 2012 ACM Conference on Ubiquitous Computing (pp. 556-559). ACM.

Extended Abstract	E.1	<u>Kim</u>, S., Mankoff, J. & Paulos, E. (2014). Exploring the Opportunities of Mobile Technology Use in Nonprofit Organizations. In CHI'14 Extended Abstracts on Human Factors in Computing Systems. ACM.
	E.2	<u>Kim, S.</u>, & Paulos, E. (2012). A subscription-based authoring tool for mobile citizen science campaigns. In CHI'12 Extended Abstracts on Human Factors in Computing Systems (pp. 2135-2140). ACM.
Workshop Papers and Others	W.7	<u>Kim, S.</u> (2013). E-waste: Repair or Replace? That is the Question. Human Computer Interaction Consortium, Monterey, CA, USA
	W.6	<u>Kim, S.</u> (2013). Sustainable Reusability in the Rise of Electronic Waste. CHI 2013 Workshop on Reclaiming Repair, Paris, France, 2013.
	W.5	<u>Kim, S.</u> (2013). Technology to empower citizen scientists, The U.S. Environmental Protection Agency, Kentucky, USA, 2013.
	W.4	<u>Kim, S.</u> (2011). Environmental inference: using activity inference as a way to collect environmental data for urban health, CHI 2011 workshop on Data collection by the people for the people, Vancouver, BC, Canada, 2013.
	W.3	<u>Kim, S.</u>, & Paulos, E. (2010). Understanding e-Waste: How to Encourage Re-use and Longevity-of-use of Domestic e-Waste, CHI 2010 Workshop on Examining appropriation, re-use and maintenance for sustainability, Atlanta, Georgia, USA, 2010.
	W.2	<u>Kim, S.</u>, & Paulos, E. (2009). Building a simple, low cost air quality sensor for monitoring indoor air quality, CHI 2009 Workshop of DIY for CHI: methods, Communities and values of reuse and customization, Boston, Massachusetts, USA, 2009.
	W.1	<u>Kim, S.</u> (2008), Richardson, J., Arriaga, R., & Abowd, G. D. Digital Picture Schedule: An Everyday Activity sharing Tool for parents of Children with Autism.

PROFESSIONAL WORKS

2003-2006	**Information Architecture & Web Usability Projects**, Daum Communications Implemented search portal usability test-bed Designed and implemented search advertisement systems Designed and implemented cost-per-click search marketing products
2002-2003	**Mobile Interface Developments**, Neogenis Designed user Interfaces for Motorola mobile phones Designed user Interfaces for LG networked home appliances Consulted mobile phone usability for wireless networking
2000-2002	**Ubiquitous Housing Appliance Developments**, Samsung Corporations Designed and deployed a touch screen based home automation system Designed and deployed built-in, power-line based home-appliance control systems Designed and implemented on-line communities for Samsung apartment residents

TEACHING EXPERIENCE

Fall 2010	**Teaching Assistant** HCI 540 – Human-Computer Interaction Methods with Professor Bonnie John & Matthew Kam
Spring 2010	**Teaching Assistant** HCI 650 – Basic Interaction Design with Professor Eric Paulos

2012	**Mentor**, Vishal Agarwal (CMU undergrad)
2009	**Mentor**, Paul Shen (CMU undergrad)
2007	**Mentor**, Hyorim Park (Gatech undergrad)

HONORS & AWARDS

2011	IBM Research Graduate Fellowship
2008	University of California, Irvine, Dean's Fellowship (Declined)
1998	Rotary scholarship, Korea

INVITED TALKS

Fall 2013	"Citizen Science: A mobile tool for promoting citizen's engagement in solving real-world problems" at HCI – Environment, Technology and Society By Jennifer Mankoff
April 2013	"Technology to empower citizen scientists" at The U.S. Environmental Protection Agency, Kentucky, USA
September 2010	"Creek Watch: pairing usefulness and usability for successful citizen science" at IBM Workshop for Frontiers of Cloud Computing

IN THE PRESS

June 2013	**Water-technology.net** Smarter water for crowded cities, http://www.water-technology.net/features/featureibm-smarter-water-project-smart-cities
November 2010	**Forbes** IBM Launches iPhone App For Crowdsourcing Water Quality, http://www.forbes.com/sites/kerryadolan/2010/11/04/ibm-launches-iphone-app-for-crowdsourcing-water-quality/
September 2010	**Huffpost Tech** Citizen Science: Check out IBM's Creek Watch iPhone App, http://www.huffingtonpost.com/2010/09/24/citizen-science-check-out_n_738220.html
August 2010	**ABC Local** Scientists use iPhone app to collect creek data, http://abclocal.go.com/kfsn/story?section=resources/lifestyle_community/green&id=7639420

ACADEMIC SERVICES

Conference Reviewing	CHI 2014, 2013, 2012, 2011, 2010 Ubicomp 2013, 2012, 2011, 2010 Mobile HCI 2013, 2012 TEI 2011, 2010 Pervasive Computing 2011 DPPI 2013 APCHI 2012 CSCW 2011
Journal Reviewing	IEEE Pervasive Computing IEEE Internet Computing
Student volunteers	CSCW 2013 CHI 2009

REFERENCES

Eric Paulos
Assistant Professor, the Berkeley Center for New Media
Electrical Engineering Computer Science Department
University of California, Berkeley
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Jennifer Mankoff
Associate Professor, Human-Computer Interaction Institute
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Carnegie Mellon University
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