

Min Kyung Lee

Human-Computer Interaction Institute
Carnegie Mellon University
Pittsburgh PA 15213-3890 USA

Mobile 412 527 7396
mklee@cs.cmu.edu
<http://www.cs.cmu.edu/~mklee>

EDUCATION

Carnegie Mellon University, 2007-present
Ph.D. Candidate in Human-Computer Interaction
Advisors: Professors Jodi Forlizzi and Sara Kiesler

Carnegie Mellon University, 2005-2007
Master of Design in Interaction Design
Advisors: Professors John Zimmerman, Anind K. Dey and Jodi Forlizzi

Korea Advanced Institute of Science and Technology, 1999-2004
Bachelor of Science, Industrial Design
Summa Cum Laude, graduated at head of class

Institut National des Sciences Appliquees de Lyon, France, 2001-2002
Exchange student in Département de Génie Productique

PROFESSIONAL EXPERIENCE

Carnegie Mellon University, HCII, 2006
Research assistant, responsible for ethnographic field study and user test for smart home research

SK Telecom, CITF, 2004
User interface designer, responsible for conception, designing, prototyping, and evaluation of user interface for an autonomous home robot and intelligent information services for a mobile phone

Motorola, CXD, Winter, 2003
Intern, responsible for cultural study of Korea, China, and Japan and GUI design for mobile phones

Philips Design in Paris, Summer, 2002
Intern, responsible for conception of new interface and GUI design for mobile phones

BOOK CHAPTER

Lee, M.K., Davidoff, S., Zimmerman, J., and Dey, A.K. (2008). Designing for control: Finding roles for smart homes. In P. Desmet, J. van Erp, and M. Karlsson (eds.), *Design & Emotion Moves* (pp. 246-266). UK:Cambridge Scholars Publishing.

FULL CONFERENCE PAPERS

Lee, M.K., Kiesler, S., and Forlizzi, J. (in press). Receptionist or information kiosk? How do people talk with a robot? In *Proceedings of CSCW 2010*. [Acceptance rate: **20%**]

Lee, M.K., and Forlizzi, J. (2009). Designing Adaptive Robotic Services. In *Proceedings of IASDR'09*.

Lee, M.K., Forlizzi, J., Rybski, P.E., Crabbe, F., Chung, W., Finkle, J., Glaser, E., and Kiesler, S. (2009) The Snackbot: Documenting the design of a robot for long-term Human-Robot Interaction. In *Proceedings of HRI 2009*, 7-14. [Acceptance rate: **19%**]

Davidoff, S., **Lee, M.K.**, Dey, A.K., and Zimmerman, J. (2007) Rapidly exploring application design through speed dating. In *Proceedings of Ubicomp 2007*, 429-446. [Acceptance rate: **19%**]

Lee, M.K., Davidoff, S., Zimmerman, J., and Dey, A.K. (2007) Smart bag: managing home and raising children. In *Proceedings of DPPI 2007*, 434 - 437.

Lee, M.K., Davidoff, S., Zimmerman, J., and Dey, A.K. (2006) Smart homes, families and control. In *Proceedings of Design & Emotion 2006*. [**Best Paper Award**]

Davidoff, S., **Lee, M.K.**, Yiu, C., Zimmerman, J., and Dey, A.K. (2006) Principles of smart home control. In *Proceedings of Ubicomp 2006*, 19-34. [Acceptance rate: **13%**]

SHORT CONFERENCE PAPERS & POSTERS

Lee, M.K., Dillahun, T., Pendleton, B., Kraut, R., and Kiesler, S. (2009). Tailoring websites to increase contributions to online communities. In *Proceedings of CHI2009*, 4003-4008.

Lee, M.K., and Makachev, M. (2009). How do people talk with a robot: An analysis of human-robot dialogues in the real world. In *Proceedings of CHI2009*, 3769-3774.

Makachev, M., **Lee, M.K.**, and Simmons, R. (2009). Relating initial turns of human-robot dialogues to discourse. In *Proceedings of HRI 2009*, 321-322.

Davidoff, S., **Lee, M.K.**, Zimmerman, J., and Dey, A.K. (2006) Socially-aware requirements for a smart home for families. In *Proceedings of the International Symposium on Intelligent Environments*, 45-48.

PROFESSIONAL SERVICE

| | |
|-------------------------------------|--|
| Program Committee | CHI 2010 Work-In-Progress Program Committee |
| Organized Workshops and Conferences | HRI Pioneers Workshop 2010 Organizer. Co-organizing with Kate Tsui (UML), Henriette Cramer (Univ. of Amsterdam), Osawa Hiroataka (Keio Univ.), Laurel Riek (Univ. of Cambridge), Satoru Satake (ATR), Kristen Stubbs (iRobot), and Ja-Young Sung (Georgia Tech). To be held in conjunction with HRI 2010 in Osaka, Japan in March 2010 |
| | Sharing Experiences 2009 Conference chair. Co-organized with Jaewoo Chung (MIT Media Lab), Keywon Chung (MIT Media Lab), Jieun Hwang (Univ. of Seoul), Seonghyuck Lee (Oracle). Instructed a three day workshop on designing robotic services in conjunction with the conference. |
| | Emergence 2007, Carnegie Mellon University CMU student-run conference on service design (http://www.design.cmu.edu/emergence/2007/) Committee member and responsible for submission coordination and review |
| Reviewer | ACM Conference on Human Factors in Computing Systems (CHI) 2009, 2010 ACM/IEEE International Conference on Human Robot Interaction (HRI) 2009, 2010 |

HONORS & AWARDS

Kwanjeong Lee Jong Hwan Scholarship, 2007-2010

Scholarship for graduate study abroad, US\$ 150,000 over a period of three years

Best Paper and Performance Award | Design and Emotion Society, 2006

Samsung Lee Kun Hee Scholarship, 2005-2007

Scholarship for graduate study abroad, US\$ 100,000 over a period of two years

Rotary Ambassadorial Scholar, 2005-2006

Scholarship to increase international understanding across different countries

PRIX de l'INSA-Lyon (France), 2004

Awarded President's Prize for top rated exchange students

KAIST Honorary List for Graduates, 2004

Graduated Summa Cum Laude

Government Fellowship | Korea Ministry of Science and Technology, 1999-2004

The 2nd Photovoltaic Environmental Design Competition | Korea Institute of Energy Research, 2002

Honorary Mention

TEACHING EXPERIENCE

Graduate Teaching Assistant | Carnegie Mellon University, HCI Institute, Fall 2009

Course: HCI Methods taught by Professors John Zimmerman & Aniket Kittur

Guest Lecture | Carnegie Mellon University, School of Design, Fall 2009
Lectured on speed dating design technique in the Basic Interaction class taught by Professor Jodi Forlizzi

Graduate Teaching Assistant | Carnegie Mellon University, School of Design, Fall 2006
Course: Advanced Interface and Interaction Design, taught by Professor Jodi Forlizzi

Teaching Assistant of Graphic Applications | KAIST, Summer 2001
Taught Dreamweaver & Flash in the re-education program for university professors

RESEARCH & PROJECT

Projects on Herb, Personal Robotics | CMU HCII and Intel, 2009-present
Conducting research on a home exploring robotic butler in collaboration with Professors Jodi Forlizzi and Siddhartha Srinivasa (<http://personalrobotics.intel-research.net>)

Projects on People and Robots | CMU HCII and RI, 2007-present
Conducting research on Snackbot in collaboration with Professors Sara Kiesler, Jodi Forlizzi, and Paul Rybski (<http://www.peopleandrobots.org>, <http://www.snackbot.org>)

Smart Homes, Families and Controls | CMU HCII and School of Design, 2005-2007
Conducted ethnographic research on family activities and evaluated concept applications in collaboration with Professors John Zimmerman and Anind Dey, and Scott Davidoff (<http://smarthome.cs.cmu.edu>)

Autonomous Home Robot User Interface | SK Telecom, 2004
Designed the user interface for home robots providing information and communication service

Unified Management Service on a Mobile Phone | SK Telecom, 2004
Designed the service on a future mobile phone that would manage information services

Intelligent Agent Based Personalization Service on a Mobile Phone | SK Telecom, 2004
Designed the information service with an intelligent agent for a mobile phone (commercialized) (http://www.sktelecom.com/eng/services/service_inside/1mm)

Interactive Toy Set | KAIST, 2003
Designed and developed an interactive toy set for children's storytelling based on fairy tales
Undergraduate thesis project, exhibited in the 2003 International Design Symposium in Seoul

Wearable Computer for Multi-Communication | KAIST, Samsung Electronics, Fall 2002
Designed the "emotion oriented" wearable computer for everyday use

User Interface for Mobile Phone, Philips Fisio 825 | Philips Design, Summer 2002
Designed the user Interface for Fisio 825 and generated concepts for a new mobile phone interface

PATENTS

Min Kyung Lee, Myoung Seock Kim: Interactive Toy Set, KAIST, KR#0513261

Min Kyung Lee, Soo Kyung Cho, Jeong Sook Kim: Hierarchical Menu Navigation on a Mobile Phone, SK Telecom (pending)

STUDENT SUPERVISIONS

Yiwen Jia (undergraduate, Information Systems), Fall 2009
Sean Kim (undergraduate, Information Systems), Fall 2009
Mitchell Luban (undergraduate, Electrical Engineering), Fall 2009
Jane Park (undergraduate, Communication Design), Fall 2009
Kimberley Nederlof (undergraduate, Psychology), Summer and Fall 2009
Andy Echenique (undergraduate, Psychology), Summer 2009

SELECTED PRESS, BOOKS, AND OTHER MEDIUMS

"Snackbot: Polite host, research platform, vending machine" on **CNET** (Web), October, 16, 2009 (http://news.cnet.com/8301-17938_105-10376249-1.html)

Snackbot appeared in "The new Pittsburgh" on **CBS National News** (Television), September, 23, 2009 (<http://www.cbsnews.com/video/watch/?id=5333788n&tag=mg.eveningnews>)

Smart Bag appeared in **Designing interactive systems: People, activities, contexts, technologies** (Book), 2009, David Benyon, Phil Turner, and Susan Turner, Addison Wesley

Smart Bag appeared in **Mobile technology for children: Designing for interaction and learning** (Book), 2009, Allison Drulin, Morgan Kaufmann

Smart Bag appeared in "The Kindness Lab" in **Spirit Magazine**, 2008
(http://www.spiritmag.com/2008_10/features/kindness-lab-1.php)

"Speed Dating as a Design Method" in **Adaptive Path blog**, September, 19, 2007
(<http://www.adaptivepath.com/blog/2007/09/19/speed-dating-as-a-design-method>)

WORKSHOP PARTICIPATION

Social responsibility in HRI: Conducting our research, changing the world
HRI 2009

Workshop on IT@Home
CHI 2006

VOLUNTEER

Design Consulting for the Sign System | Daejon Science Expo Park, 2004
Consulted for the sign system of the Daejon Science Expo Park renovation

SKILLS

Language | Korean (native), English (fluent), French (fluent)
Visualization | | AutoCAD, Photoshop, Illustrator, Director, Flash, After Effects, Premiere, Rhino, 3Dmax
Programming | C, JAVA, Visual Basic, MS SQL, HTML, Director Lingo, Flash Action Script
Computing hardware | Basic circuit and sensor knowledge