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RESEARCH INTERESTS

I am broadly interested in Human Computer Interaction (HCI) and Ubiquitous Computing. The focus of my recent research has been on embedding tactile feedback into mobile devices. I am particularly interested in transferring pie in the sky research ideas to product.

EDUCATION

- JUN 2009 University of California, San Diego
PhD in Computer Engineering
Dissertation: *Designing Easily Learnable Eyes-Free Interaction*
Advisors: William G. Griswold and James D. Hollan
Committee: William G. Griswold, James D. Hollan, Patrick Baudisch, Barry Brown, Adriene Jenik, and Lawrence Saul
- JAN 2007 University of California, San Diego
MS in Computer Science
- MAY 2004 University of California, Berkeley
BS in Electrical Engineering and Computer Science
Advisor: Marti Hearst

EMPLOYMENT

- SEPT 2012–PRESENT AT&T Labs, Research
Principal Member of Technical Staff
- JUL 2009–SEPT 2012 AT&T Labs, Research
Senior Member of Technical Staff
- JAN 2010–PRESENT Columbia University, Department of Computer Science
Adjunct Professor
- SEPT 2004–PRESENT University of California, San Diego
Research Assistant, Advisors: William G. Griswold, James D. Hollan
- JUL 2007–SEPT 2007 Microsoft Research, Redmond
Research Intern, Mentor: Patrick Baudisch
- JUL 2006–SEPT 2006 Microsoft Research, Redmond
Research Intern, Mentor: Scott Counts
- JULY 2005–SEPT 2005 Microsoft Research, Cambridge
Research Intern, Mentors: Tim Regan and Shahram Izadi

JUN 2002–SEPT 2004 University of California, Berkeley
Research Assistant, Advisor: Marti Hearst

JUN 2000–SEPT 2000 Aristo Technologies
Software Development Intern, Mentor: Ching Tai

REFEREED PUBLICATIONS

FULL CONFERENCE
PAPERS

Route Guidance Modality for Elder Driver Navigation
SeungJun Kim, Jin-Hyuk Hong, **Kevin A. Li**, Jodi Forlizzi, and Anind K. Dey
Proceedings of the International Conference on Pervasive Computing (Pervasive
2012), pp179–196. [20% acceptance rate]

ShadowPuppets: Supporting Collocated interaction with Mobile Projector Phones
Using Hand Shadows.

Lisa G. Cowan and **Kevin A. Li**

Proceedings of the ACM Conference on Human Factors in Computing Systems
(CHI 2011), pp.2707–2716. [26% acceptance rate]

CoupleVIBE: Mobile Implicit Communication to Improve Awareness for (Long-
Distance) Couples.

Elizabeth Bales, **Kevin A. Li** and William G. Griswold

Proceedings of the ACM Conference on Computer Supported Cooperative Work
(CSCW 2011), pp. 65–74[22% acceptance rate]

Vis-à-vis: Privacy Preserving Online Social Networks via Virtual Individual Servers.

Amre Shakimov, Harold Lim, Ramon Caceres, Landon P. Cox, **Kevin A. Li**,
Dongtao Liu, and Alexander Varshavsky.

Proceedings of the International Conference on Communication Systems and
Networks (COMSNETS 2011), pp. 1–10.

Tapping and Rubbing: Exploring New Dimensions of Tactile Feedback with Voice
Coil Motors.

Kevin A. Li, Patrick Baudisch, William G. Griswold, James D. Hollan.

Proceedings of the ACM Symposium on User interface Software and Technology
(UIST 2008), pp. 181–190. [19% acceptance rate]

PeopleTones: A System for the Detection and Notification of Buddy Proximity on
Mobile Phones.

Kevin A. Li, Timothy Y. Sohn, Steven Huang, William G. Griswold.

Proceedings of the International Conference on Mobile Systems, Applications, and
Services (MobiSys 2008), pp. 160–173. [18% acceptance rate]

BlindSight: Eyes-Free Access to Mobile Phones.

Kevin A. Li, Patrick Baudisch, and Ken Hinckley.

Proceedings of the ACM Conference on Human Factors in Computing Systems
(CHI 2008), pp.1389–1398. [22% acceptance rate]

A Diary Study of Mobile Information Needs.

Timothy Sohn, **Kevin A. Li**, William G. Griswold and James D. Hollan.

Proceedings of the ACM Conference on Human Factors in Computing Systems
(CHI 2008), pp.433–442. [22% acceptance rate]

Place-Its: Location-Based Reminders on Mobile Phones.

Timothy Sohn, **Kevin A. Li**, Gunny Lee, Ian Smith, James Scott, and William G. Griswold.
Proceedings of the International Conference on Ubiquitous Computing (UbiComp 2005), pp.232–250. [9% acceptance rate]

Faceted Metadata for Image Search and Browsing.
Ka-Ping Yee, Kirsten Swearingen, **Kevin Li** and Marti Hearst.
Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2003), pp.401–408. [16% acceptance rate]

WORSHOP PAPERS Staying in Touch with Tactile Messaging
Kevin A. Li.
ACM International Conference on Ubiquitous Computing (UbiComp 2011).

DOCTORAL SYMPOSIUMS Designing Easily Learnable Eyes-free Interaction.
Kevin A. Li.
ACM Symposium on User Interface Software and Technology Doctoral Symposium (UIST 2008).

Designing Easily Learnable Eyes-free Interaction.
Kevin A. Li.
International Conference on Ubiquitous Computing Doctoral Colloquium (UbiComp 2008).

PATENTS PENDING

2012 Method and Apparatus for Content Rating Using Reaction Sensing
Kevin A. Li, Alex Varshavsky, Xuan Bao, Romit Choudhury, and Songchun Fan
2011-2276

Methods, Systems, and Products for Prediction of Mood
Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray
2012-0452

Methods, Systems, and Products for Authentication of Users
Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray
2012-0453

Methods, Systems, and Products for Monitoring Health
Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray
2012-0451

Methods, Systems, and Products for Interfacing with Neurological and Biological Networks
Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray
2012-0450

Electromagnetic Reflection Profiles
Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray

2012-0448

Methods, Systems, and Products for Recalling and Retrieving Documentary Evidence

Kevin A. Li, Troy C. Meuninck, Robert R. Miller, James H. Pratt, Horst J. Schroeter, and Behzad Shahraray

2012-0449

Event and Condition Determination Based on Sensor Data

Brian Amento, Brian Greaves, K Purdy, **Kevin A. Li**, and Larry Stead

2012-0783

2011 Three-Dimensional Building Blocks

Kevin A. Li

2011-0906

Methods, Systems and Products for Illuminating Displays

Kevin A. Li

2011-0905

Methods, Systems and Products for Image Displays

Kevin A. Li

2011-0904

Devices and Methods for Transferring Data Through a Human Body

Brian Amento, **Kevin A. Li**, Hal Purdy, and Larry Stead

2011-0902

Devices, Systems and Methods for Security Using Magnetic Field Based Identification

Alexander Varshavsky and **Kevin A. Li**

2011-0254

Device Feedback and input via Heating and Cooling

Kevin A. Li and Brian J. Amento

2011-0236

2010 Visual Interactive Voice Response

Kevin A. Li and Alicia Abella

2010-1161

Devices, Systems and Methods for Conveying gesture Commands

Brian J. Amento, Karrie Hanson and **Kevin A. Li**

2010-1089

Method and Apparatus for Interacting With Projected Displays Using Shadows

Kevin A. Li and Lisa G. Cowan

2010-0924

Devices, Systems, and Methods for Tactile Feedback and Input

Kevin A. Li

2010-0861

Methods, Systems, and Products for Illuminating Displays

Kevin A. Li

2010-0688

Devices, Systems, and methods for notification of Events on a Wireless Communication Device.

Kevin A. Li

2010-0585

- 2008 Active Use Lookup via Mobile Device
Patrick Baudisch, **Kevin A. Li**, and Ken Hinckley
MS322378.02

UNREFEREED PUBLICATIONS

- CONFERENCE PAPERS Exploring Social Interactions and Attributes of Casual Multiplayer Mobile Gaming.
Kevin A. Li and Scott Counts.
Proceedings of the International Conference on Mobile Technology, Applications and Systems (Mobility Conference 2007), pp.696-703.
- TECHNICAL REPORTS PeopleTones: Exploring Peripheral Cues in the Wild Using mobile Phones.
Kevin A. Li, Timothy Sohn, Steven Huang, and William G. Griswold.
Technical Report CS2007-0888, University of California, San Diego.
- Evaluating Location-Based Reminders
Kevin A. Li, Timothy Sohn, William G. Griswold
Technical Report CS2005-0826, University of California, San Diego

INVITED TALKS

- 04/29/2009 Enabling Easily Learnable Eyes-free Interaction by Exploiting Human Experience.
University of Waterloo.
- 04/23/2009 Enabling Easily Learnable Eyes-free Interaction by Exploiting Human Experience.
Microsoft Research, Redmond.
- 04/16/2009 Enabling Easily Learnable Eyes-free Interaction by Exploiting Human Experience.
Hasso Plattner Institute.
- 03/03/2009 Enabling Easily Learnable Eyes-free Interaction by Exploiting Human Experience.
AT&T Labs, Florham Park
- 27 OCT 2008 Tapping and Rubbing: Exploring New Dimensions of Tactile Feedback with Voice Coil Motors. Nokia Research Center, Palo Alto.

PROFESSIONAL ACTIVITIES

- PROGRAM COMMITTEE PerCom 2012
MobileHCI 2009–2012
Tangible Embedded Interaction (TEI) 2009
- ORGANIZING COMMITTEE ACM UIST 2009–2011
- STUDENT VOLUNTEER UBICOMP 2008, UBICOMP 2005
- REFEREE CHI, CSCW, UBICOMP, UIST, MobileHCI, International Journal of Human-

Computer Interaction (IJHCI)

SELECTED MEDIA

- SEPT 2012 Dean, Josh, et al., “Drivers of Progress.” Popular Science.
Haptic Wheel
- 7 MAY 2012 Greiner, Lynn. “Instant Translation, Haptic Steering Wheels and More Glimpses of
Bio-Acoustics, Haptic Wheel and ShadowPuppets the Future. The Globe and Mail.
- 26 APR 2012 Balkin, “New Mobile Tech Ideas Rely on Human Touch.” NY1.
Bio-Acoustics, Got My Stuff and Haptic Wheel
- 25 APR 2012 Diep, Francie. “Future of Device input is Shadowy at Best.” Innovation News Daily.
ShadowPuppets
- 21 APR 2012 Trinh, Tina. “The Next GPS: Vibrating Steering Wheel.” ABC News.
Haptic Wheel
- 20 APR 2012 Brustein, Joshua. Tomorrow's Privacy Struggles, On Display Today.” New York
Got My Stuff and Haptic Wheel Times.
- 20 APR 2012 Maisto, Michelle. “AT&T Innovations Include BYOD Apps, Watson Speech
Haptic Wheel and ShadowPuppets Recognition.” EWeek.com.
- 20 APR 2012 “What’s Next: The Virtual Butler.” Bloomberg Video.
Bio-Acoustics and Got My Stuff
- 19 APR 2012 O’Brien, Terrence. “Hands-on with AT&T Labs Prototypes: ShadowPuppets and
Haptic Wheel and ShadowPuppets Haptic Steering Wheel.” Endgadget.
- 19 APR 2012 Covert, Adrien. “Bio-Acoustics, Haptic Steering Wheels, RFID Everywhere: This is
Bio-Acoustics and Haptic Wheel the Future According to AT&T.” Gizmodo.
- 19 APR 2012 Allen, Fox Van. “Meet the High-Tech Car of the Futuer... From AT&T?” Tecca.
Got My Stuff and Haptic Wheel
- 19 APR 2012 D’Orazio, Dante. “Haptic Feedback Steering Wheel Gives GPS Directions with
Haptic Wheel Vibrations (Hands-On).” The Verge.
- 19 APR 2012 D’Orazio, Dante. “ShadowPuppets Prototype Lets you Pinch-to-Zoom, Click, and
ShadowPuppets Scroll with Shadow Gestures.” The Verge.
- 11 FEB 2012 Eisenberg, A. “Here’s Looking at You (but I’m Still Texting).” New York Times.
Tactile Earrings
- 27 OCT 2008 LaFee, S. “Forget ringtones; cell phones could reach out and tap you.” San Diego
Tapping and Rubbing Union Tribune: A1, A8 (front page)
- 21 OCT 2008 Herrman, J. “Microsoft Proposes Phone That Tap and Rub to Get Your Attention.”
Tapping and Rubbing Gizmodo.
- 20 OCT 2008 Hachman, M. “New Ways That Your Cellphone Could ‘Talk’ to You.” PC Magazine.
Tapping and Rubbing
- 1 MAR 2008 Barras, C. “Don’t look now, it’s the phone with an audio ‘display’.”

- blindSight* New Scientist.
- 29 FEB 2008 Lytle, J.M. "Microsoft phone makes in-call lookups easier." TechRadar.
blindSight
- 09 AUG 2004 Kanellos, M. "Next-generation search tools to refine results." CNET News.
Flamenco

TEACHING EXPERIENCE

- WINTER 2011-2013 COMS6998: Mobile Human-Computer Interaction
Columbia University
- WINTER 2006 CSE8A: Introduction to Computer Science
University of California, San Diego
Teaching Assistant, Professor: Beth Simon
- WINTER 2005 CSE140: Components and Design Techniques for Digital Systems
University of California, San Diego
Teaching Assistant, Professor: Bill Lin

MENTORING

- PhD Lisa Cowan, ShadowPuppets, SUMMER 2010 (*UCSD*)
Elizabeth Bales, VibeMessaging, FALL 2008-2010 (*UCSD*)
Laura Pina, VibeMessaging, FALL 2008-2009 (*UCSD*)
- MS Kasia Hayden, The Force, SUMMER 2011 (*MIT*)
Steven Huang, PeopleTones, SPRING 2006 (*Google*)
- UNDERGRAD Boaz Gurdin, PeopleTones, SPRING 2006 (*Microsoft*)
Gunny Lee, Place-its, WINTER 2005 (*Stanford*)
- PREUSS HIGH SCHOOL Adonna Anderson, WINTER 2007
Cecelio Garcia, WINTER 2007

AWARDS AND HONORS

- 2005-2007 University of California San Diego Chancellor's Fellowship
- 2004-2005 University of California San Diego Fellowship
- 2000-2004 University of California Regents Scholarship (*UC Berkeley*)

CITIZENSHIP

USA