## **BOOKS**

Douglas K. van Duyne, James A. Landay, and Jason I. Hong, *The Design of Sites: Principles, Processes, and Patterns for Crafting a Customer-Centered Web Experience*, 2<sup>nd</sup> Ed., Upper Saddle River, NJ: Prentice Hall, 2007.

## REFEREED PUBLICATIONS

iournal articles

Mark Roman Miller, Fernanda Herrera, Hanseul Jun, James A. Landay, Jeremy N. Bailenson, **Personal identifiability of user tracking data during observation of 360-degree VR video**. *Scientific Reports* **10**, 17404 (2020). DOI: https://doi.org/10.1038/s41598-020-74486-y.

Zhuxiaona Wei and James A. Landay, **Evaluating Speech-Based Smart Devices Using New Usability Heuristics**, in *IEEE Pervasive Computing*, vol. 17, no. 2, pp. 84-96, Apr.-Jun. 2018. DOI: https://doi.org/10.1109/MPRV.2018.022511249.

Paredes, Pablo Enrique, Nur Al-Huda Hamdan, Dav Clark, Carrie Cai, Wendy Ju, and James A. Landay. 2017. **Evaluating in-Car Movements in the Design of Mindful Commute Interventions: Exploratory Study**. *Journal of Medical Internet Research* 19 (12). DOI: https://doi.org/10.2196/jmir.6983.

Sunny Consolvo, Predrag Klasnja, David W. McDonald and James A. Landay. **Designing for Healthy Lifestyles: Design Considerations for Mobile Technologies to Encourage Consumer Health and Wellness**, In *Foundations and Trends® in Human–Computer Interaction*, 6(3–4), 2014, pp. 167-315. DOI: https://doi.org/10.1561/1100000040.

Katherine M. Everitt, Peter F. Oven, Shwetak N. Patel, and James A. Landay. **GroupEnergyTable: An Interactive Tabletop for Energy Conservation**. In *IEEE Pervasive Computing*, 11(3), July-September 2012, pp. 46-53.

Jonathan Malkin, Xiao Li, Susumu Harada, James Landay, Jeff Bilmes. **The Vocal Joystick Engine v1.0**. Computer Speech & Language, 25(3), July 2011, pp. 535-555.

Scott R. Klemmer and James A. Landay. **Toolkit Support for Integrating Physical and Digital Interactions**. In *Human-Computer Interaction*, 2009, 24(2). pp.315-366.

Scott R. Klemmer, Katherine M. Everitt, and James A. Landay. **Integrating Physical and Digital Interactions on Walls for Fluid Design Collaboration.** In *Human-Computer Interaction*, 2008, 23(2). pp.138-213.

Tanzeem Choudhury, Gaetano Borriello, Sunny Consolvo, Dirk Haehnel, Beverly Harrison, Bruce Hemingway, Jeffrey Hightower, Pedja Klasnja, Karl Koscher, Anthony LaMarca, James A. Landay, Jonathan Lester, Louis LeGrand, Ali Rahimi, Adam Rea, and Danny Wyatt. **The Mobile Sensing Platform: An Embedded System for Capturing and Recognizing Activities**. In *IEEE Pervasive Computing*, 7(2), April 2008, pp. 32-41.

Susumu Harada, James A. Landay, Jon Malkin, Xiao Li, and Jeff A. Bilmes. 2008. **The Vocal Joystick: Evaluation of Voice-based Cursor Control Techniques for Assistive Technology**. In *Disability and Rehabilitation: Assistive Technology*, 3(1-2), pp. 22-34. DOI: 10.1080/17483100701352963.

Sunny, Consolvo, Beverly Harrison, Ian Smith, Mike Y. Chen, Katherine Everitt, Jon Froehlich, James A. Landay, Conducting In Situ Evaluations for and with Ubiquitous Computing Technologies. In *International Journal of Human-Computer Interaction*, 2007, 22(1), p. 107-22.

Yang Li, Jason I. Hong, James A. Landay, **Design Challenges and Principles for Wizard of Oz Testing of Location-Enhanced Applications.** In *IEEE Pervasive Computing*, 6(2), April-June 2007, pp. 70-75.

Scott Lederer, Jason I. Hong, Anind Dey, and James A. Landay, **Personal Privacy through Understanding and Action: Five Pitfalls for Designers.** In *Personal and Ubiquitous Computing*, 8(6): pp. 440-454, November 2004.

Mark W. Newman, James Lin, Jason I. Hong, and James A. Landay, **DENIM: An Informal Web Site Design Tool Inspired by Observations of Practice.** *Human-Computer Interaction*, Volume 18, 2003, pp. 259-324.

Xiaodong Jiang and James A. Landay. **Modeling Privacy Control in Context-aware Systems.** *IEEE Pervasive Computing*, 1(3), July-Sept. 2002, pp. 59-63.

Anoop K. Sinha, Scott R. Klemmer, and James A. Landay. **Embarking on Spoken-Language NL Interface Design.** *The International Journal of Speech Technology*, May 2002, Volume 5, Number 2, pp. 159-169.

Jason I. Hong, Jeffrey Heer, Sarah Waterson, and James A. Landay, **WebQuilt: A Proxy-based Approach to Remote Web Usability Testing.** ACM *Transactions on Information Systems*, 19(3), July 2001, pp. 263-285.

Jason I. Hong and James A. Landay, **An Infrastructure Approach to Context-Aware Computing.** *Human-Computer Interaction*, 16(2-4), 2001.

James A. Landay and Brad A. Myers, **Sketching Interfaces: Toward More Human Interface Design.** *IEEE Computer*, 34(3), March 2001, pp. 56-64.

Jason Hong and James A. Landay. A Context / Communication Information Agent. Personal and Ubiquitous Computing, Special Issue on Situated Interaction and Context-Aware Computing. 5(1): Springer-Verlag. 2001, pp. 78-81.

Oviatt, S.L., Cohen, P.R., Wu, L., Vergo, J., Duncan, L., Suhm, B., Bers, J., Holzman, T., Winograd, T., Landay, J., Larson, J. & Ferro, D. Designing the user interface for multimodal speech and gesture applications: State-of-the-art systems and research directions. Human Computer Interaction, 2000, 15(4), 263-322 (reprinted in Human-Computer Interaction in the New Millennium, ed. by J. Carroll, Reading, MA: Addison-Wesley, 2002, pp. 419-452).

James A. Landay and Richard C. Davis, **Making Sharing Pervasive: Ubiquitous Computing for Shared Note Taking.** *IBM Systems Journal*, 38(4), October 1999, pp. 531-550.

## invited journal

articles

Sunny Consolvo, James A. Landay, and David McDonald, **Designing for Behavior Change in Everyday Life**. In *Computer*, vol. 42 (no. 6), IEEE, May 2009, pp. 86-89.

Yang Li and James A. Landay. **Into the Wild: Low-Cost Ubicomp Prototype Testing.** In *Computer*, vol. 41 (no. 6), IEEE, June 2008, pp. 102-105.

James A. Landay and Gaetano Borriello. **Design Patterns for Ubiquitous Computing.** In *Computer*, vol. 36 (no. 8), IEEE, August 2003, pp. 93-95.

Marti A. Hearst, Mark D. Gross, James A. Landay, and Thomas F. Stahovich. **Sketching Intelligent Systems.** In *IEEE Intelligent Systems*, vol.13, (no. 3), IEEE, May-June 1998. pp.10-19.

James A. Landay. **Tool Review: Serius, A Visual Programming Environment.** *Journal of Visual Languages and Computing*, 2(3), September 1991, pp. 297–303.

top tier

conference papers

Danaë Metaxa, Michelle A. Gan, Su Goh, Jeff Hancock, and James A. Landay. 2021. **An Image of Society: Gender and Racial Representation and Impact in Image Search Results for Occupations**. In *Proceedings of the ACM on Human-Computer Interaction*, 5, (CSCW '21), Article 26 (April 2021), 23 pages. DOI: https://doi.org/10.1145/3449100.

Sherry Ruan, Liwei Jiang, Qianyao Xu, Zhiyuan Liu, Glenn M Davis, Emma Brunskill, and James A. Landay. 2021. **EnglishBot: An AI-Powered Conversational System for Second Language Learning**. In the *Proceedings of the 26th International Conference on Intelligent User Interfaces* (IUI '21). Association for Computing Machinery, New York, NY, USA, 434–444. DOI: https://doi.org/10.1145/3397481.3450648.

Sherry Ruan, Wei Wei, James Landay. 2021. **Variational Deep Knowledge Tracing for Language Learning**. To appear in the *Proceedings of the 11<sup>th</sup> International Learning Analytics and Knowledge Conference* (LAK '21). Association for Computing Machinery, New York, NY, USA, 323–332. DOI: https://doi.org/10.1145/3448139.3448170.

Griffin Dietz, Jimmy K Le, Nadin Tamer, Jenny Han, Hyowon Gweon, Elizabeth L Murnane, James A Landay. 2021. **StoryCoder: Teaching Computational Thinking Concepts Through Storytelling in a Voice-Guided App for Children**. In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems* (CHI 2021). Association for Computing Machinery, New York, NY, USA, 14 pages. DOI: https://doi.org/10.1145/3411764.3445039. **Best Paper Honorable Mention**.

Jackie (Junrui) Yang, Monica S. Lam, and James A. Landay. 2020. **DoThisHere:** Multimodal Interaction to Improve Cross-Application Tasks on Mobile Devices. In *Proceedings of the 33rd Annual ACM Symposium on User Interface Software and Technology* (UIST '20). Association for Computing Machinery, New York, NY, USA, 35–44. DOI: https://doi.org/10.1145/3379337.341584.

Parastoo Abtahi, Victoria Ding, Anna C. Yang, Tommy Bruzzese, Alyssa B. Romanos, Elizabeth L. Murnane, Sean Follmer, and James A. Landay. 2020. **Understanding Physical Practices and the Role of Technology in Manual Self-Tracking**. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2021), 4(4), Article 115 (December 2020), 24 pages. DOI: https://doi.org/10.1145/3432236.

Sherry Ruan, Jiayu He, Rui Ying, Jonathan Burkle, Dunia Hakim, Anna Wang, Yufeng Yin, Lily Zhou, Qianyao Xu, Abdallah AbuHashem, Griffin Dietz, Elizabeth Murnane, Emma Brunskill, James A. Landay. 2020. **Supporting Children's Math Learning with Feedback-Augmented Narrative Technology**. In *Proceedings of the ACM Interaction Design and Children Conference* (IDC 2020), June 2020.

Elizabeth L. Murnane, Xin Jiang, Anna Kong, Michelle Park, Weili Shi, Connor Soohoo, Luke Vink, Iris Xia, Xin Yu, John Yang-Sammataro, Grace Young, Jenny Zhi, Paula Moya, and James A. Landay. 2020. **Designing Ambient Narrative-Based Interfaces to Reflect and Motivate Physical Activity**. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI 2020). Association for Computing Machinery, New York, NY, USA, 14 pages. DOI: https://doi.org/10.1145/3313831.3376478. **Best Paper**.

Jackie (Junrui) Yang, Gaurab Banerjee, Vishesh Gupta, Monica S. Lam, and James A. Landay. 2020. **Soundr: Head Position and Orientation Prediction Using a Microphone Array**. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI 2020). Association for Computing Machinery, New York, NY, USA, 12 pages. DOI: https://doi.org/10.1145/3313831.3376427.

Jane L. E, Ohad Fried, Jingwan Lu, Jianming Zhang, Radomír Měch, Jose Echevarria, Pat Hanrahan, and James A. Landay. 2020. **Adaptive Photographic Composition Guidance**. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (CHI 2020). Association for Computing Machinery, New York, NY, USA, 14 pages. DOI: https://doi.org/10.1145/3313831.3376635.

Stephanie Balters, Matthew L Mauriello, Soyeon Park, James A. Landay, and Pablo E Paredes. 2020. Calm Commute: Guided Slow Breathing for Daily Stress Management in Drivers. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2020), 4 (1), Article 38 (March 2020), 19 pages. DOI: https://doi.org/10.1145/3380998.

Danaë Metaxa, Joon Sung Park, James A. Landay, and Jeff Hancock. 2019. **Search Media and Elections: A Longitudinal Investigation of Political Search Results**. In *Proceedings of the ACM on Human-Computer Interaction* (CSCW 2019), 3, Article 129 (November 2019), 17 pages. DOI: https://doi.org/10.1145/3359231.

Jackie (Junrui) Yang and James A. Landay. 2019. **InfoLED: Augmenting LED Indicator Lights for Device Positioning and Communication**. In *Proceedings of the 32nd Annual ACM Symposium on User Interface Software and Technology* (UIST 2019). Association for Computing Machinery, New York, NY, USA, 175–187. DOI: https://doi.org/10.1145/3332165.3347954.

Jessica R. Cauchard, Jeremy Frey, Octavia Zahrt, Krister Johnson, Alia Crum, and James A. Landay. 2019. **The Positive Impact of Push vs Pull Progress Feedback: A 6-week Activity Tracking Study in the Wild**. In *Proceedings of the ACM on Interactive*, *Mobile*, *Wearable and Ubiquitous Technologies* (UbiComp 2019), 3 (3), Article 76 (September 2019), 23 pages. DOI: https://doi.org/10.1145/3351234.

Parastoo Abtahi, Benoit Landry, Jackie (Junrui) Yang, Marco Pavone, Sean Follmer, and James A. Landay. 2019. **Beyond The Force: Using Quadcopters to Appropriate Objects and the Environment for Haptics in Virtual Reality**. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI 2019). ACM, New York, NY, USA, Paper 359, 13 pages. DOI: https://doi.org/10.1145/3290605.3300589. **Best Paper Honorable Mention**.

Kesler Tanner, Naomi Johnson, and James A. Landay. 2019. **Poirot: A Web Inspector for Designers**. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI 2019). ACM, New York, NY, USA, Paper 528, 12 pages. DOI: https://doi.org/10.1145/3290605.3300758. **Best Paper Honorable Mention**.

Sherry Ruan, Liwei Jiang, Justin Xu, Bryce Joe-Kun Tham, Zhengneng Qiu, Yeshuang Zhu, Elizabeth L. Murnane, Emma Brunskill, and James A. Landay. 2019. **QuizBot: A Dialogue-based Adaptive Learning System for Factual Knowledge**. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI 2019). ACM, New York, NY, USA, Paper 357, 13 pages. DOI: https://doi.org/10.1145/3290605.3300587.

Jessica R. Cauchard, Alex Tamkin, Cheng Yao Wang, Luke Vink, Michelle Park, Tommy Fang, and James A. Landay, **Drone.io: A Gestural and Visual Interface for Human-Drone Interaction**, In Proceedings of the *2019 14th ACM/IEEE International Conference on Human-Robot Interaction* (HRI 2019), Daegu, Korea (South), 2019, pp. 153-162. DOI: 10.1109/HRI.2019.8673011.

Pablo E. Paredes, Stephanie Balters, Kyle Qian, Elizabeth L. Murnane, Francisco Ordóñez, Wendy Ju, and James A. Landay. 2018. **Driving with the Fishes: Towards Calming and Mindful Virtual Reality Experiences for the Car**. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2019), 2 (4), Article 184 (December 2018), 21 pages. DOI: https://doi.org/10.1145/3287062.

Rafael Ballagas, Sarthak Ghosh, and James Landay. 2018. **The Design Space of 3D Printable Interactivity**. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2018), 2 (2), Article 61 (June 2018), 21 pages. DOI: https://doi.org/10.1145/3214264.

Heesoon Kim and James A. Landay. 2018. **Aeroquake: Drone Augmented Dance**. In *Proceedings of the 2018 Designing Interactive Systems Conference* (DIS 2018). Association for Computing Machinery, New York, NY, USA, 691–701. DOI: https://doi.org/10.1145/3196709.3196798.

Danaë Metaxa-Kakavouli, Kelly Wang, James A. Landay, and Jeff Hancock. 2018. **Gender-Inclusive Design: Sense of Belonging and Bias in Web Interfaces**. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI 2018). Association for Computing Machinery, New York, NY, USA, Paper 614, 1–6. DOI: https://doi.org/10.1145/3173574.3174188.

Pablo E. Paredes, Francisco Ordonez, Wendy Ju, and James A. Landay. 2018. **Fast & Furious: Detecting Stress with a Car Steering Wheel**. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems* (CHI 2018). Association for Computing Machinery, New York, NY, USA, Paper 665, 1–12. DOI: https://doi.org/10.1145/3173574.3174239.

Pablo E. Paredes, Yijun Zhou, Nur Al-Huda Hamdan, Stephanie Balters, Elizabeth Murnane, Wendy Ju, and James A. Landay. 2018. **Just Breathe: In-Car Interventions for Guided Slow Breathing**. In *Proceedings of the ACM on Interactive*, *Mobile*, *Wearable and Ubiquitous Technologies* (UbiComp 2018), 2 (1): Article 28 (March 2018), 23 pages. DOI: https://doi.org/10.1145/3191760.

Sherry Ruan, Jacob O. Wobbrock, Kenny Liou, Andrew Ng, and James A. Landay. 2018. Comparing Speech and Keyboard Text Entry for Short Messages in Two Languages on Touchscreen Phones. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2018), 1 (4), Article 159 (December 2017), 23 pages. DOI: https://doi.org/10.1145/3161187.

Parastoo Abtahi, David Y. Zhao, Jane L. E., and James A. Landay. 2017. **Drone Near Me: Exploring Touch-Based Human-Drone Interaction**. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* (UbiComp 2017), 1 (3), Article 34 (September 2017), 8 pages. DOI: https://doi.org/10.1145/3130899.

Jessica R. Cauchard, Janette L. Cheng, Thomas Pietrzak, and James A. Landay. 2016. ActiVibe: Design and Evaluation of Vibrations for Progress Monitoring. In *Proceedings of the ACM Conference on Human Factors in Computing Systems* (CHI 2016). Association for Computing Machinery, New York, NY, USA, 3261–3271. DOI: https://doi.org/10.1145/2858036.2858046

Jessica Rebecca Cauchard, Kevin Y. Zhai, Marco Spadafora, and James A. Landay. 2016. **Emotion Encoding in Human-Drone Interaction**. In *Proceedings of the Eleventh ACM/IEEE International Conference on Human Robot Interaction* (HRI 2016). IEEE Press, Piscataway, NJ, USA, 263-270. DOI: 10.1109/HRI.2016.7451761.

Jessica R. Cauchard, Jane L. E, Kevin Y. Zhai, and James A. Landay. 2015. **Drone & me: an exploration into natural human-drone interaction**. In *Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing* (UbiComp 2015). ACM, New York, NY, USA, 361-365. DOI: http://dx.doi.org/10.1145/2750858.2805823

Lydia B. Chilton, Juho Kim, Paul André, Felicia Cordeiro, James A. Landay, Daniel S. Weld, Steven P. Dow, Robert C. Miller, and Haoqi Zhang. Frenzy: Collaborative Data Organization for Creating Conference Sessions. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2014), Toronto, Canada, April 2014.

Lydia B. Chilton, Greg Little, Darren Edge, Daniel S. Weld, and James A. Landay. Cascade: Crowdsourcing Taxonomy Creation. In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2013), Paris, France, April 2013.

Jon Froehlich, Leah Findlater, Marilyn Ostergren, Solai Ramanathan, Josh Peterson, Inness Wragg, Eric Larson, Fabia Fu, Mazhengmin Bai, Whwetak N. Patel, and James A. Landay, **The Design and Evaluation of Prototype Eco-Feedback Displays for Fixture-Level Water Usage Data**. In Proceedings of *ACM Conference on Human Factors in Computing Systems* (CHI 2012), Austin, TX, USA, May 2012. **Best Paper Honorable Mention**.

Michael Toomim, Travis Kriplean, Claus Pörtner, and James A. Landay. **Utility of Human-Computer Interactions: Toward a Science of Preference Measurement**. In Proceedings of *ACM Conference on Human Factors in Computing Systems* (CHI 2011), Vancouver, Canada, May 2011.

Darren Edge, Elly Searle, Kevin Chiu, Jing Zhao, and James A. Landay. **MicroMandarin: Mobile Language Learning in Context**. In Proceedings of *ACM Conference on Human Factors in Computing Systems* (CHI 2011), Vancouver, Canada, May 2011.

Jon E. Froehlich, Leah Findlater, and James A. Landay. **The Design of Eco-Feedback Technology.** In Proceedings of *ACM Conference on Human Factors in Computing Systems* (CHI 2010), Atlanta, GA, April 2010. **Best Paper Winner**.

Yang Li, Xiang Cao, Katherine Everitt, Morgan Dixon, and James A Landay. FrameWire: A Tool For Automatically Extracting Interaction Logic From Paper Prototyping Tests. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2010), Atlanta, GA, April 2010, pp. 503-512.

Kayur Patel, Naomi Bancroft, Steven M. Drucker, James Fogarty, Amy J. Ko, and James A. Landay. **Gestalt: Integrated Support for Implementation and Analysis in Machine Learning Processes.** In *Proceedings of ACM Symposium on User Interface Software and Technology* (UIST 2010), New York, NY, November 2010.

Predrag Klasnja, Sunny Consolvo, David W. McDonald, James A. Landay and Wanda Pratt. Using Mobile & Personal Sensing Technologies to Support Health Behavior Change in Everyday Life: Lessons Learned. In Proceedings of the Annual Conference of the American Medical Informatics Association, November 2009.

T. Scott Saponas, Desney S. Tan, Dan Morris, Ravin Balakrishnan, Jim Turner, and James A. Landay. **Enabling Always-Available Input with Muscle-Computer Interfaces.** In *Proceedings of ACM Symposium on User Interface Software and Technology* (UIST 2009), Victoria, British Columbia, Canada, November 2009, pp. 167-176 [19% acceptance rate].

Jon Froehlich, Sunny Consolvo, Tawanna Dillahunt, Beverly Harrison, Pedja Klasnja, Jennifer Mankoff, and James A. Landay, **UbiGreen: Investigating a Mobile Tool for Tracking and Supporting Green Transportation Habits.** In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2009), Boston, MA, April 2009. [24% acceptance rate].

Michael Toomim, Steven M. Drucker, Mira Dontcheva, Ali Rahimi, Blake Thomson, and James A. Landay, **Attaching UI Enhancements to Websites with End Users.** In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2009), Boston, Massachusetts, April 4-9, 2009. [24% acceptance rate].

Sunny Consolvo, David W. McDonald, and James A. Landay, **Theory-Driven Design Strategies for Technologies that Support Behavior Change in Everyday Life**, In *Proceeding of ACM Conference on Human Factors in Computing Systems* (CHI 2009), Boston, Massachusetts, April 4-9, 2009. [24% acceptance rate].

Susumu Harada, Jacob O. Wobbrock, Jon Malkin, Jeff Bilmes, and James A. Landay. Longitudinal study of people learning to use continuous voice-based cursor control. In *Proceeding of ACM Conference on Human Factors in Computing Systems* (CHI 2009), Boston, Massachusetts, April 4-9, 2009. [24% acceptance rate].

Sunny Consolvo, Predrag Klasnja, David W. McDonald, Daniel Avrahami, Jon E. Froehlich, Louis LeGrand, Ryan Libby, Keith Mosher and James A. Landay. Flowers or a Robot Army? Encouraging Awareness & Activity with Personal, Mobile Displays. In the *Proceedings of UbiComp 2008*, September 2008, Seoul, South Korea. [19% acceptance rate].

Richard C. Davis, Brien Colwell, and James A. Landay. **K-Sketch: A 'Kinetic' Sketch Pad for Novice Animators.** In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2008), Florence, Italy, April 2008, pp. 413-422. [22% acceptance rate].

Yang Li and James A. Landay. Activity-Based Prototyping of Ubicomp Applications for Long-Lived, Everyday Human Activities. In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2008), Florence, Italy, April 2008, pp. 1303-1312. best paper nomination [22% acceptance rate].

Kayur Patel, James Fogarty, James A. Landay, and Beverly Harrison, **Investigating Statistical Machine Learning as a Tool for Software Development**. In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2008), Florence, Italy, April 2008, pp. 667-676 [22% acceptance rate].

Consolvo, S., McDonald, D.W., Toscos, T., Chen, M.Y., Froehlich, J., Harrison, B., Klasnja, P., LaMarca, A., LeGrand, L., Libby, R., Smith, I., and Landay, J.A., Activity Sensing in the Wild: A Field Trial of UbiFit Garden, In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2008), Florence, Italy, April 2008, pp. 1797-1806 [22% acceptance rate].

James Lin and James A. Landay, Employing Patterns and Layers for Early-Stage Design and Prototyping of Cross-Device User Interfaces. In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2008), Florence, Italy, April 2008, pp. 1313-1322 [22% acceptance rate].

Richard C. Davis, T. Scott Saponas, Michael Shilman, and James A. Landay, **SketchWizard: Wizard of Oz Prototyping of Pen-based User Interfaces.** In *Proceedings of ACM Symposium on User Interface Software and Technology* (UIST 2007), Newport, RI, October 2007, pp. 119-128 [17% acceptance rate].

Susumu Harada, Jacob O. Wobbrock, and James A. Landay, **VoiceDraw: A Hands-Free Voice-Driven Drawing Application for People with Motor Impairments.** In *Proceedings of 9<sup>th</sup> International ACM SIGACESS Conference on Computers and Accessibility* (ASSETS 2007), Tempe, AZ, pp. 27-34, October 2007 [31% acceptance rate].

Jon Froehlich, Mike Y. Chen, Sunny Consolvo, Beverly Harrison, and James A. Landay, My Experience: A System for In Situ Tracing and Capturing of User Feedback on Mobile Phones, In Proceedings of the 5th International Conference on Mobile Systems, Applications, and Services (MobiSys 2007). 2007: San Juan, Puerto Rico [21% acceptance rate].

Susumu Harada, James A. Landay, Jonathan Malkin, Xiao Li, and Jeff A. Bilmes. **The Vocal Joystick: Evaluation of Voice-based Cursor Control Techniques.** In *Proceedings of 8<sup>th</sup> International ACM SIGACESS Conference on Computers and Accessibility* (ASSETS 2006), Portland, OR, pp. 197-204, October 2006 [36% acceptance rate].

- X. Li, J. Malkin, S. Harada, J. Bilmes, R. Wright and J. Landay. **An Online Adaptive Filtering Algorithm for the Vocal Joystick.** In *Proceedings of Interspeech 2006*. Pittsburgh, PA, September 2006.
- T. Scott Saponas, Madhu Prabaker, Gregory D. Abowd, and James A. Landay. The Impact of Pre-Patterns on the Design of Digital Home Applications. In Proceedings of ACM Conference on Designing Interactive Systems (DIS 2006), University Park, PA, pp. 189-198 [25% acceptance rate].

Steven Dow, Scott Saponas, Yang Li and James A. Landay, External Representations in Ubiquitous Computing Design and the Implications for Authoring Tools, In *Proceedings of ACM Conference on Designing Interactive Systems* (DIS 2006), University Park, PA, pp. 241-250 [25% acceptance rate].

J. Bilmes, J. Malkin, X. Li, S. Harada, K. Kilanski, K. Kirchhoff, R. Wright, A. Subramanya, J. Landay, P. Dowden, and H. Chizeck. **The Vocal Joystick**, *IEEE International Conference on Audio, Speech and Signal Processing*. Toulouse, France, May 2006.

Sunny Consolvo, Katherine Everitt, Ian Smith, James A. Landay, **Design Requirements for Technologies to Encourage Physical Activity.** In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2006), Montreal, Canada, 2006, pp. 457-466 [23% acceptance rate].

- Jeff A. Bilmes, Xiao Li, Jonathan Malkin, Kelley Kilanski, Richard Wright, Katrin Kirchhoff, Amarnag Subramanya, Susumu Harada, James A. Landay, Patricia Dowden and Howard Chizeck, **The Vocal Joystick: A Voice-Based Human-Computer Interface for Individuals with Motor Impairments,** In *Proceedings of Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing*, Vancouver, Canada, Oct, 2005.
- Yang Li and James A. Landay, **Informal Prototyping of Continuous Graphical Interactions.** In *Proceedings of ACM Symposium on User Interface Software and Technology* (UIST 2005), Seattle WA, 2005, pp. 221-230 [19% acceptance rate].
- Yang Li, Ken Hinckley, Zhiwei Guan, and James A. Landay, Experimental Analysis of Mode Switching Techniques in Pen-based User Interfaces. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2005), Portland OR, 2005, pp. 461-470 [25% acceptance rate].
- Jeffrey Heer, Stuart K. Card, and James A. Landay, **prefuse: a toolkit for interactive information visualization.** In *Proceedings of ACM Conference on Human Factors in Computing Systems* (CHI 2005), Portland OR, 2005 [25% acceptance rate].
- Yang Li, Jason I. Hong, and James A. Landay, **Topiary: A Tool for Prototyping Location-Enhanced Applications.** In Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2004), *CHI Letters*, 6(2), pp. 217-226 [21% acceptance rate].
- Chung, E.S., J.I. Hong, J. Lin, M.K. Prabaker, J.A. Landay, and A. Liu. **Development and Evaluation of Emerging Design Patterns for Ubiquitous Computing.** In Proceedings of *ACM Conference on Designing Interactive Systems* (DIS 2004), pp. 233-242, 2004 [19% acceptance rate]
- Hong, J.I., J. Ng, S. Lederer, and J.A. Landay. **Privacy Risk Models for Designing Privacy-Sensitive Ubiquitous Computing Systems.** In *Proceedings of the ACM Conference on Designing Interactive Systems* (DIS 2004), pp. 91-100, 2004. [19% acceptance rate]
- Jason I. Hong and James A. Landay, **An Architecture for Privacy-Sensitive Ubiquitous Computing.** In *Proceedings of the Second International Conference on Mobile Systems*, *Applications*, *and Services* (MobiSys 2004). Boston, MA, pp. 177-189, 2004 [14% acceptance rate].
- Scott R. Klemmer, Jack Li, James Lin, and James A. Landay, **Papier-Mâché: Toolkit Support for Tangible Input.** In the Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2004), *CHI Letters*, 6(1): pp. 399–406 [16% acceptance rate].

Xiaodong Jiang, Jason I. Hong, Leila A. Takayama, and James A. Landay, Ubiquitous Computing for Firefighters: Field Studies and Prototypes of Large Displays for Incident Command. In the Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2004), CHI Letters, 6(1): p. 679-686 [16% acceptance rate].

Xiaodong Jiang, Nicholas Y. Chen, Jason I. Hong, Kevin Wang, Leila A. Takayama, and James A. Landay. **Siren: Context-aware Computing for Firefighting.** In *Proceedings of Second International Conference on Pervasive Computing* (Pervasive 2004), Vienna, Austria, pp. 87-105 [13% acceptance rate].

Scott R. Klemmer, Jamey Graham, Gregory J. Wolff, James A. Landay, **Books with Voices: Paper Transcripts as a Tangible Interface to Oral Histories.** In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2003), *CHI Letters*, 5(1), pp. 89-96 [16% acceptance rate].

F. Wai-ling Ho-Ching, Jennifer Mankoff, and James A. Landay, **From Data to Display: the Design and Evaluation of a Peripheral Sound Display for the Deaf**. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2003), *CHI Letters*, 5(1), pp. 161-168 [16% acceptance rate].

Katherine M. Everitt, Scott R. Klemmer, Robert Lee, James A. Landay. Two Worlds Apart: Bridging the Gap Between Physical and Virtual Media for Distributed Design Collaboration. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2003), *CHI Letters*, 5(1), pp. 553-560 [16% acceptance rate].

Miriam Walker, Leila Takayama, James A. Landay, **High-fidelity or low-fidelity**, **paper or computer medium?**. In *Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting* (HFES 2002), Baltimore, October 2002, pp. 661-665.

Xiaodong Jiang, Jason Hong, James A. Landay, **Approximate Information Flows: Socially-based Modeling of Privacy in Ubiquitous Computing.** In *Proceedings of The 4<sup>th</sup> International Conference on Ubiquitous Computing* (UbiComp 2002), Göteborg, Sweden, September 2002, pp. 176-193 [15% acceptance rate].

Hesham M. Kamel and James A. Landay, **Sketching Images Eyes-free: A Gridbased Dynamic Drawing Tool for The Blind.** In *Proceedings of the Fifth International ACM SIGCAPH Conference on Assistive Technologies* (ASSETS 2002), Edinburgh, Scotland, July 2002 [40% acceptance rate].

James Lin, Michael Thomsen, and James A. Landay. A Visual Language for Sketching Large and Complex Interactive Designs. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2002), *CHI Letters*, 4(1), pp. 307-314 [15% acceptance rate].

Scott R. Klemmer, Michael Thomsen, Ethan Phelps-Goodman, and James A. Landay. Where Do Web Sites Come From? Capturing and Interacting with Design History. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2002), CHI Letters, 4(1), pp. 1-8 [15% acceptance rate].

Scott Klemmer, Mark W. Newman, Ryan Farrell, Mark Bilezikjian, and James A. Landay, **The Designers' Outpost: A Tangible Interface for Collaborative Web Site Design.** In Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2001), *CHI Letters*, 3(2), pp. 1-10 [19% acceptance rate].

Jason Hong and James A. Landay, **WebQuilt: A Framework for Capturing and Visualizing the Web Experience.** In *Proceedings of the Tenth International World Wide Web Conference*, Hong Kong, May 2001, pp. 717-724 [20% acceptance rate].

Hesham M. Kamel and James A. Landay. A Study of Blind Drawing Practice: Creating Graphical Information Without the Visual Channel. In *Proceedings of the Fourth ACM Conference on Assistive Technologies* (ASSETS 2000), Washington, DC, Nov. 2000, pp. 34-41.

Scott R. Klemmer, Anoop K. Sinha, Jack Chen, James A. Landay, Nadeem Aboobaker, Annie Wang, **SUEDE: A Wizard of Oz Prototyping Tool for Speech User Interfaces.** In Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2000), *CHI Letters*, 2(2), pp. 1-10 [26% acceptance rate].

Jason I. Hong and James A. Landay, **SATIN: A Toolkit for Informal Ink-based Applications.** In Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2000), *CHI Letters*, 2(2), pp. 63-72 [26% acceptance rate].

Mark W. Newman and James A. Landay. Sitemaps, Storyboards, and Specifications: A Sketch of Web Site Design Practice as Manifested Through Artifacts. In *Proceedings of the ACM Conference on Designing Interactive Systems* (DIS 2000). New York, NY. August 17-19, 2000, pp. 263-274 [9% accepted for talks].

James Lin, Mark W. Newman, Jason I. Hong, and James A. Landay. **DENIM:** Finding a tighter fit between tools and practice for web site design. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2000), *CHI Letters*, 2(1), pp. 510-517 [19% acceptance rate].

Allan C. Long, James A. Landay, and Lawrence A. Rowe. **Visual Similarity of Pen Gestures.** In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2000), *CHI Letters*, 2(1), pp. 360-367 [19% acceptance rate].

Allan C. Long, James A. Landay, and Lawrence A. Rowe. **Implications for a Gesture Design Tool.** In *Proceedings of Human Factors in Computing Systems:* (CHI 1999), Pittsburgh, PA, May 1999, pp. 40-47 [25% acceptance rate].

Richard C. Davis, James A. Landay, Victor Chen, Jonathan Huang, Rebecca B. Lee, Francis C. Li, James Lin, Charles B. Morrey III, Ben Schleimer, Morgan N. Price, and Bill N. Schilit. **NotePals: Lightweight Note Sharing by the Group, for the Group.** In *Proceedings of Human Factors in Computing Systems* (CHI 1999), Pittsburgh, PA, May 1999, pp. 338-345 [25% acceptance rate].

Allison Woodruff, James Landay, and Michael Stonebreaker. Constant Density Visualizations of Non-uniform Distributions of Data. In *Proceedings of UIST 1998*, November 1998, pp. 19-28 [25% acceptance rate].

James A. Landay and Brad A. Myers. **Interactive Sketching for the Early Stages of User Interface Design.** In *Proceedings of CHI 1995*, Denver, CO, May 1995, pp. 43–50. (Also appeared as Carnegie Mellon University, Human-Computer Interaction Institute Technical Report CMU-HCII-94-104 and as School of Computer Science Technical Report CMU-CS-94-176, July 1994) [29% acceptance rate].

other

conference papers

Griffin Dietz, James A. Landay, and Hyowon Gweon. 2019. **Building Blocks of Computational Thinking: Young Children's Developing Capacities for Problem Decomposition**. In *Proceedings of the 41st Annual Meeting of the Cognitive Science Society* (CogSci 2019), Montreal, Canada, June 2019, pp. 1647-1653.

Angelica Willis, Glenn Davis, Sherry Ruan, Lakshmi Manoharan, James Landay, and Emma Brunskill. 2019. **Key Phrase Extraction for Generating Educational Question-Answer Pairs**. In *Proceedings of the Sixth (2019) ACM Conference on Learning @ Scale* (L@S 2019). ACM, New York, NY, USA, Article 20, 10 pages. DOI: https://doi.org/10.1145/3330430.3333636.

Sherry Ruan, Angelica Willis, Qianyao Xu, Glenn M. Davis, Liwei Jiang, Emma Brunskill, and James A. Landay. 2019. **BookBuddy: Turning Digital Materials Into Interactive Foreign Language Lessons Through a Voice Chatbot**. In *Proceedings of the Sixth (2019) ACM Conference on Learning @ Scale* (L@S 2019). ACM, New York, NY, USA, Article 30, 4 pages. DOI: https://doi.org/10.1145/3330430.3333643.

Stephanie Balters, Elizabeth L. Murnane, James A. Landay, and Pablo E. Paredes. 2018. **Breath Booster! Exploring In-Car, Fast-Paced Breathing Interventions to Enhance Driver Arousal State**. In Proceedings of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth 2018). Association for Computing Machinery, New York, NY, USA, 128–137. DOI: https://doi.org/10.1145/3240925.3240939

Anke M. Brock, Julia Chatain, Michelle Park, Tommy Fang, Martin Hachet, James A. Landay, and Jessica R. Cauchard. 2018. **FlyMap: Interacting with Maps Projected from a Drone**. In *Proceedings of the 7th ACM International Symposium on Pervasive Displays* (PerDis 2018). Association for Computing Machinery, New York, NY, USA, Article 13, 1–9. DOI: https://doi.org/10.1145/3205873.3205877.

Darren Edge, Stephen Fitchett, Michael Whitney and James Landay. **MemReflex:** Adaptive Flashcards for Mobile Microlearning. In Proceedings of MobileHCI 2012: The ACM Conference on Human Computer Interaction with Mobile Devices and Services, San Francisco, CA, September 2012. **Best Paper Winner**.

Susumu Harada, Jacob O. Wobbrock, and James A. Landay. Voice Games: Investigation Into the Use of Non-speech Voice Input for Making Computer Games More Accessible. In Proceedings of the 13th IFIP TC13 International Conference on Human-Computer Interaction (INTERACT 2011). Lisbon, Portugal. September 5-9, 2011. Lecture Notes in Computer Science, vol. 6946/2011. Berlin, Germany: Springer-Verlag, pp. 11-2. DOI: https://doi.org/10.1007/978-3-642-23774-4\_4.

Sunny Consolvo, Pedja Klasnja, David W. McDonald, and James A. Landay. **Goalsetting considerations for persuasive technologies that encourage physical activity**. In *Proceedings of the 4th international Conference on Persuasive Technology*: Persuasive '09, Claremont, California, April 26 - 29, 2009.

Susumu Harada, Jonathan Lester, Kayur Patel, T. Scott Saponas, James Fogarty, James A. Landay, Jacob O. Wobbrock. **VoiceLabel: Using Speech to Label Mobile Sensor Data**. In Proceedings of ICMI 2008: 10th International ACM Conference on Multimodal Interfaces, Crete, Greece, October 2008.

Kayur Patel, James Fogarty, James A. Landay, and Beverly Harrison. **Examining Difficulties Software Developers Encounter in the Adoption of Statistical Machine Learning**. In Proceedings of AAAI Conference on Artificial Intelligence (AAAI 2008), Nectar Track, pp. 1563-1566.

Katherine Everitt, Susumu Harada, Jeff Bilmes, James A. Landay. **Disambiguating Speech Commands using Physical Context,** In Proceedings of ICMI 2007: 9th International ACM Conference on Multimodal Interfaces, Nagoya, Japan, November 2007.

Susumu Harada, T. Scott Saponas, and James A. Landay. **VoicePen: Augmenting Pen Input with Simultaneous Non-Linguistic Vocalization,** In Proceedings of ICMI 2007: 9<sup>th</sup> International ACM Conference on Multimodal Interfaces, Nagoya, Japan, November 2007.

Anoop K. Sinha and James A. Landay, Capturing User Tests in a Multimodal, Multidevice Informal Prototyping Tool. In Proceedings of the Fifth ACM International Conference on Multimodal Interfaces: ICMI-PUI 2003. Vancouver, B.C., November 5-7, 2003 [35% acceptance rate].

Yang Li, James A. Landay, Zhiwei Guan, Xiangshi Ren and Guozhong Dai, **Sketching Informal Presentations.** In Proceedings of the Fifth ACM International Conference on Multimodal Interfaces: ICMI-PUI 2003. Vancouver, B.C., November 5-7, 2003, pp. 234-241 [35% acceptance rate].

Anoop K. Sinha and James A. Landay. **Embarking on Multimodal Interface Design**. In the Proceedings of the Fourth IEEE International Conference on Multimodal Interaction (ICMI 2002), Pittsburgh, PA, October 2002, pp. 355-360.

James Lin and James A. Landay. **Damask: A Tool for Early-Stage Design and Prototyping of Multi-Device User Interfaces.** In Proceedings of *The 8th International Conference on Distributed Multimedia Systems (2002 International Workshop on Visual Computing)*, San Francisco, CA, September 26-28, 2002, pp. 573-580 [50% acceptance rate].

Sarah J. Waterson, Jason I. Hong, Tim Sohn, Jeffrey Heer, Tara Matthews, and James A. Landay, What Did They Do?: Understanding Clickstreams with the WebQuilt Visualization System. In AVI 2002: Proceedings of the International Working Conference on Advanced Visual Interfaces, Trento, Italy, May 2002 [30% acceptance rate].

Francis C. Li, James A. Landay, and Anthony D. Joseph, **Supporting Collaborative Teams in Engineering Education.** In *Proceedings of the 2001 American Society for Engineering Education Annual Conference & Exposition*, June 24-27, 2001, Albuquerque, New Mexico [55% acceptance rate].

James A. Landay. Using Note-Taking Appliances for Student to Student Collaboration. In Proceedings of Frontiers in Education '99. San Juan, Puerto Rico, Nov. 1999 [~60% acceptance rate].

Todd Hodes, Mark Newman, Steven McCanne, Randy Katz, and James Landay. Shared Remote Control of a Videoconferencing Application: Motivation, Design, and Implementation. In *Proceedings of SPIE Multimedia Computing and Networking 1999*, IS&T/SPIE 1999 International Symposium on Electronic Imaging, January 1999, pp. 17-28 [37% acceptance rate].

Allison Woodruff, James Landay, and Michael Stonebraker. **Constant Information Density in Zoomable Interfaces.** In *Proceedings of Advanced Visual Interfaces* '98, May 1998, pp. 57-65 [35% acceptance rate].

James A. Landay and Todd R. Kaufmann. **User Interface Issues in Mobile Computing.** In the *Proceedings of the Fourth Workshop on Workstation Operating Systems*, 1993 (Napa, CA, Oct. 14 - 15, 1993) IEEE Computer Society Press, Los Alamitos, CA, 1993, pp. 40–47 [67% acceptance rate].

Solange Karsenty, James A. Landay, and Chris Weikart. **Inferring Graphical Constraints with Rockit.** In *People and Computers VII*, Proceedings of HCI '92, York, UK, September 1992, pp. 137–153. (Also appeared as DEC Paris Research Laboratory Research Report 17, March 1992) [25% acceptance rate].

short papers

Stephanie Balters, James A. Landay, and Pablo E. Paredes. 2019. **On-road Guided Slow Breathing Interventions for Car Commuters**. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI EA 2019). ACM, New York, NY, USA, Paper LBW2111, 5 pages. DOI: https://doi.org/10.1145/3290607.3312785.

Evan Strasnick, Jessica R. Cauchard, and James A. Landay. 2017. **BrushTouch:** Exploring an Alternative Tactile Method for Wearable Haptics, CHI Note in *Proceedings of 2017 CHI Conference on Human Factors in Computing Systems* (CHI 2017), Denver, CO, 2017. Association for Computing Machinery, New York, NY, USA, 3120–3125. DOI: https://doi.org/10.1145/3025453.3025759.

Jane L. E, Ilene L. E, James A. Landay, and Jessica R. Cauchard. 2017. **Drone & Wo: Cultural Influences on Human-Drone Interaction Techniques**. CHI Note in *Proceedings of 2017 CHI Conference on Human Factors in Computing Systems* (CHI 2017), Denver, CO, 2017. Association for Computing Machinery, New York, NY, USA, 6794–6799. DOI: https://doi.org/10.1145/3025453.3025755.

T. Scott Saponas, Desney Tan, Dan Morris, Jim Turner, and James A. Landay. **Making Muscle-Computer Interfaces More Practical**. CHI Note in *Proceedings of CHI 2010: ACM Conference on Human Factors in Computing Systems*, Atlanta, GA, 2010.

Michael Toomim, Xianhang Zhang, James Fogarty and James A. Landay. Access Control by Testing for Shared Knowledge. CHI Note in *Proceedings of CHI 2008: ACM Conference on Human Factors in Computing Systems*, Florence, Italy, 2008 [17% acceptance rate].

Kayur Patel, Mike Y. Chen, Ian Smith, James A. Landay, **Personalizing Routes.** TechNote in *Proceedings of UIST 2006: ACM Symposium on User Interface Software and Technology*, Montreux, Switzerland, 2006, pp. 187-190 [22% acceptance rate].

Yang Li, Evan Welbourne, and James A. Landay, **Design and Experimental Analysis of Continuous Location Tracking Techniques for Wizard of Oz Testing.** CHI Note in *Proceedings of CHI 2006: ACM Conference on Human Factors in Computing Systems*, Montreal, Canada, 2006, pp. 1019-1022 [20% acceptance rate].

James A. Landay, Genevieve Bell, and T. Scott Saponas, **Digital Simplicity: Usable Personal Ubicomp.** In *Proceedings of International Forum: 'Less is more - Simple Computing in an Age of Complexity'*, 27–28 April 2005, Microsoft Research, Cambridge, United Kingdom.

Richard C. Davis and James A. Landay. **Informal Animation Sketching: Requirements and Design.** In *Proceedings of AAAI 2004 Fall Symposium on Making Pen-Based Interaction Intelligent and Natural.* Washington D.C., pp. 42-48, October 21-24, 2004.

Yang Li, Jason, I. Hong, James A. Landay, ContextMap: Modeling Scenes of the Real World for Context-Aware Computing. Poster in *Proceedings of UbiComp* 2003, Seattle, WA, Oct 12-15, 2003, pp. 187-188.

Jason Hong, James Landay, A. Chris Long, and Jennifer Mankoff, **Sketch Recognizers from the End-User's, the Designer's, and the Programmer's Perspective.** In *Proceedings of AAAI 2002 Spring Symposium (Sketch Understanding Workshop)*, April 2002, pp. 73.

James A. Landay, Jason Hong, Scott Klemmer, James Lin, and Mark Newman, **Informal PUIs: No Recognition Required.** *In Proceedings of AAAI 2002 Spring Symposium (Sketch Understanding Workshop)*, April 2002, pp. 86.

Hesham M. Kamel and James A. Landay. Constructing Moving Pictures Eyesfree: An Animation Tool for the Blind. In *Human Factors in Computer Systems:* CHI 2002 Conference Extended Abstracts, Minneapolis, MN, April 20-25, 2002. [33% acceptance rate].

Sarah Waterson, James A. Landay, Tara Matthews. In the Lab and Out in the Wild: Remote Web Usability Testing for Mobile Devices. In *Human Factors in Computer Systems: CHI 2002 Conference Extended Abstracts*, Minneapolis, MN, April 20-25, 2002 [33% acceptance rate].

Anoop Sinha and James Landay. **Visually Prototyping Perceptual Interfaces through Multimodal Storyboarding.** IEEE Workshop on Perceptive User Interfaces, November 15-16, 2001. Orlando, FL [30% acceptance rate].

A. Chris Long, Jr., James A. Landay, and Lawrence A. Rowe. 2001. "Those Look Similar!" Issues in Automating Gesture Design Advice. Poster in Proceedings of 2001 Workshop on Perceptive User Interfaces (PUI 2001), November 15-16, 2001. Orlando, FL. Association for Computing Machinery, New York, NY, USA, 1–5 [49% acceptance rate]. DOI: https://doi.org/10.1145/971478.971510.

Jason I. Hong, Francis C. Li, James Lin, and James A. Landay. **End-User Perceptions of Formal and Informal Representations of Web Sites.** In *Human Factors in Computer Systems: CHI 2001 Conference Extended Abstracts*, Seattle, WA, March 31-April 5, 2001, pp. 385-386 [23% acceptance rate].

Regan L. Mandryk, Kori M. Inkpen, Mark Bilezikjian, Scott R. Klemmer, and James A. Landay. **Supporting Children's Collaboration Across Handheld Computers.** In *Human Factors in Computer Systems: CHI 2001 Conference Extended Abstracts*, Seattle, WA, March 31-April 5, 2001, pp. 255-256 [23% acceptance rate].

Hesham M. Kamel and James A. Landay, **The Use of Labeling to Communicate Detailed Graphics in a Non-visual Environment.** In *Human Factors in Computer Systems: CHI 2001 Conference Extended Abstracts*, Seattle, WA, March 31-April 5, 2001, pp. 243-244 [23% acceptance rate].

Hesham Kamel and James A. Landay. **The Integrated Communication 2 Draw** (IC2D): A Drawing Program for the Visually Impaired. In *Human Factors in Computing Systems: CHI '99 Extended Abstracts*, Pittsburgh, PA, May 1999, pp. 222-223 [29% acceptance rate].

Allison Woodruff, James Landay, and Michael Stonebraker, **Goal Directed Zoom.** In *CHI '98 Summary*, April 1998, pp. 305–306 [22% acceptance rate].

James A. Landay and Brad A. Myers. **Sketching Storyboards to Illustrate Interface Behaviors.** In *CHI '96 Conference Companion*, Vancouver, Canada, April 1996, pp. 193–194 [22% acceptance rate].

James A. Landay and Brad A. Myers. **Extending an Existing User Interface Toolkit to Support Gesture Recognition.** In *Adjunct Proceedings of INTERCHI*, Amsterdam, The Netherlands, April 1993, pp. 91–92.

Solange Karsenty, James A. Landay, and Chris Weikart. **Audio Cues For Graphic Design.** In *CHI* '92 *Posters and Short Talks*, Human Factors in Computing Systems, May 1992, pp. 77-78.

book chapters

Griffin Dietz, Jenny Han, Hyowon Gweon, and James A. Landay. 2021. **Design Guidelines for Early Childhood Computer Science Education Tools**. In Meinel C., Leifer L. (eds) *Design Thinking Research*. *Understanding Innovation*. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-62037-0\_13.

Parastoo Abtahi, Neha Sharma, James A. Landay, and Sean Follmer. 2021. **Presenting and Exploring Challenges in Human-Robot Interaction Design through Bodystorming**. In Meinel C., Leifer L. (eds) *Design Thinking Research*. *Understanding Innovation*. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-62037-0 15.

Kesler Tanner, Naomi Johnson, and James A. Landay, **Poirot: A Web Inspector for Designers**. 2020. In Meinel C., Leifer L. (eds) *Design Thinking Research*. *Understanding Innovation*. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-28960-7\_14.

Kesler Tanner and James A. Landay, "I Know It When I See It": How Experts and Novices Recognize Good Design. 2019. In Meinel C., Leifer L. (eds) *Design Thinking Research*. *Understanding Innovation*. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-97082-0\_13.

Yang Li, Scott Klemmer and James Landay, **Tools for Rapidly Prototyping Mobile Interactions.** In *Handbook of Research on User Interface Design and Evaluation for Mobile Technology*, Volume 1, Joanna Lumsden (Eds.), Information Science Reference, 2007.

Yang Li, Scott Klemmer and James Landay, **Tools for Rapidly Prototyping Mobile Interactions.** In Handbook of Research on User Interface Design and Evaluation for Mobile Technology, Volume 1, Joanna Lumsden (Eds.), Information Science Reference, 2007.

A. Chris Long, Jr., James A. Landay, and Lawrence A. Rowe. **Helping Designers Create Recognition-Enabled Interfaces.** In *Multimodal Interface for Human Machine Communication*, Y.Y. Tang, P.C. Yuen, P.S.P. Wang (Eds). World Scientific, 2002.

videos/demos

Pablo Paredes, Vasilis Oikonomou, Rocio Francesca Guerrero, Terrie Yang, Pierre Karashchu, Biye Jiang, James Landay, Coye Chesire, and John Canny. **INQUIRE Tool: Early Insight Discovery for Qualitative Research**. In Companion of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17 Companion). ACM, New York, NY, USA, 29-32. DOI: https://doi.org/10.1145/3022198.3023272

Doug van Duyne, James A. Landay, and Matthew Tarpy. **NetRaker Suite: a Demonstration.** In Proceedings of CHI Extended Abstracts, pp. 518-519, ACM, 2002.

James Lin, Mark W. Newman, Jason I. Hong, and James A. Landay. **DENIM: An Informal Tool for Early Stage Web Site Design.** Video poster in *Human Factors in Computer Systems: CHI 2001 Conference Extended Abstracts*, Seattle, WA, March 31-April 5, 2001, pp. 205-206.

Anoop K. Sinha, Scott R. Klemmer, Jack Chen, James A. Landay, and Cindy Chen. **SUEDE: Iterative, Informal Prototyping for Speech Interfaces.** Video poster in *Human Factors in Computer Systems: CHI 2001 Conference Extended Abstracts*, Seattle, WA, March 31-April 5, 2001, pp. 203-204.

Allison Woodruff, James Landay, and Michael Stonebraker. **VIDA** (Visual Information Density Adjuster). Video demonstration in *Human Factors in Computing Systems: CHI '99 Conference Extended Abstracts*, Pittsburgh, PA, May 1999, pp. 19-20.

Richard Davis, James Lin, James Landay, Jason Brotherton, Bill Schilit, and Morgan Price. **A Framework for Sharing Handwritten Notes.** In *Proceedings of UIST '98*, San Francisco, CA, Nov. 1998, pp. 119-120.

James A. Landay. **SILK: Sketching Interfaces Like Krazy.** In CHI '96 Formal Video Program, Vancouver, Canada, April 1996.

Brad A. Myers, Dario Giuse, Andrew Mickish, Brad Vander Zanden, David Kosbie, Richard McDaniel, James Landay, Matthew Goldberg, and Rajan Pathasarathy. **The Garnet User Interface Development Environment.** Technical Video Program of CHI '94, *CHI'94 Conference Companion* Boston, MA, April 24-28, 1994, pp. 455-456.

Solange Karsenty, James A. Landay, and Chris Weikart. **Inferring Graphical Constraints with Rockit.** Video in Proceedings of INTERCHI, Amsterdam, The Netherlands, April 1993, p. 531.

workshop papers

Jon Froehlich, Tawanna Dillahunt, Predrag Klasnja, Jennifer Mankoff, Beverly Harrison, Sunny Consolvo, Robert Kraut, James A. Landay, **UbiGreen: Using Mobile Phones as a Persuasive Technology to Affect Daily Transportation Practices**. Extended Abstract in the Proceedings of the 2008 Behavior, Energy and Climate Change Conference. Sacramento, CA, November 2008.

James A. Landay, Yang Li, and Richard Davis. **Activity-based Pen Computing.** In 2007 Invited Workshop on Pen-Centric Computing Research, Brown University, March 26-28, 2007.

Yang Li and James A. Landay, **Exploring Activity-Based Ubiquitous Computing: Interaction Styles, Models and Tool Support,** CHI 2006 Workshop on What is the Next Generation of Human-Computer Interaction, Montreal, Quebec, Canada, 2006.

Katherine Everitt, Sunny Consolvo, Ian Smith, and James A. Landay, **Evaluating Ubiquitous Computing Applications In Situ.** In-Use, In-Situ Workshop, England 2006.

Jonathan Lester, Tanzeem Choudhury, Gaetano Borriello, Sunny Consolvo, James Landay, Kate Everitt and Ian Smith. **Sensing and Modeling Activities to Support Physical Fitness.** UbiComp 2005 Workshop: Monitoring, Measuring and Motivating Exercise: Ubiquitous Computing to Support Fitness, October 2005.

Yang Li and James A. Landay, **Rapid Prototyping of Context Aware Applications.** In *Workshop on Future of UI Tools*, CHI 2005, Portland, OR, April 2005.

Jason I. Hong, Gaetano Boriello, James A. Landay, David McDonald, Bill N. Schilit, and Doug Tygar, **Privacy and Security in the Location-enhanced World Wide Web**. In Workshop on Ubicomp Communities: Privacy as Boundary Negotiation, UbiComp 2003, September 2003.

James Lin and James A. Landay, **Damask: A Tool for Early-Stage Design and Prototyping of Cross-Device User Interfaces.** In *Workshop on Perspectives on HCI Patterns: Concepts and Tools*, CHI 2003, Ft. Lauderdale, FL, April 2003.

F. Wai-ling Ho-Ching, Jennifer Mankoff, James A. Landay. **Using peripheral displays to provide the deaf with awareness of environmental audio.** In *Workshop on Elegant Peripheral Awareness*, CHI 2003, Ft. Lauderdale, FL, April 2003.

Sarah Waterson and James A. Landay. **WebQuilt: Understanding User Behavior from Clickstream Data.** In ACM CHI 2002 Conference on Human Factors in Computing Systems: *Workshop on Automatic Capture, Representation, and Analysis of User Behavior*, CHI 2002, Minneapolis, MN, April 2002.

Jason I. Hong and James A. Landay, **Integrating Context Services Through Automatic Path Creation.** In *Workshop on Building the User Experience in Ubiquitous Computing*, CHI 2001, Seattle, WA, April 2001.

Scott Klemmer and James Landay, **Different strokes for different folks: A fluid toolbelt of paper, walls, and electronic sketching.** In *Workshop on Tools, Conceptual Frameworks, and Empirical Studies for Early Stages of Design*, CHI 2001, Seattle, WA, April 2001.

James Lin, Anoop Sinha, and James Landay, **Universal Access Through Multimodal Applications.** In *Workshop on Transforming the UI for Anyone, Anywhere*, CHI 2001, Seattle, WA, April 2001.

Scott Klemmer, Mark Newman, Ryan Farrell, Raecine Meza, and James Landay, A **Tangible Difference: Participatory Design Studies Informing a Designers' Outpost.** In *Workshop on Shared Environments to Support Face-to-Face Collaboration*, CSCW 2000, Philadelphia, PA, December, 2000.

Anoop K. Sinha and James A. Landay, **Towards Automatic Speech Input Grammar Generation.** In *Workshop on Natural Language*, CHI 2000, The Hague, The Netherlands, May 2000.

Jason Hong and James A. Landay, **A Context** / **Communication Information Agent.** In *Workshop on Situated Interaction in Ubiquitous Computing*, CHI 2000, The Hague, The Netherlands, May 2000.

Douglas J. van Duyne, James A. Landay, and Jason I. Hong, **Web Design Patterns for eCommerce.** *Workshop on Pattern Languages for Interaction Design*, CHI 2000, The Hague, The Netherlands, May 2000.

James A. Landay and Jack Chen, **Informal Tools for Multimodal User Interface Design.** In *Workshop on* Designing the User Interface for Pen and Speech Applications, CHI '99, Pittsburgh, PA, May 1999.

James A. Landay, Richard C. Davis, Victor Chen, Jonathan Huang, Rebecca B. Lee, Francis Li, James Lin, Charles B. Morrey III, and Ben Schleimer. **NotePals: Sharing and Synchronizing Handwritten Notes with Multimedia Documents.** In *Handheld CSCW Workshop*, CSCW '98, Seattle, WA, Nov. 1998.

James A. Landay, Mark Newman, Jason Hong. **The Shadow: A Personal Experience Capture System.** In *Proceedings of 1998 DARPA/NIST Smart Spaces Workshop*, July 1998, p. 7-82–7-85.

James A. Landay. **Sketching for the Conceptual Stages of Web Page Design.** In Workshop on Interactive Systems for Supporting the Emergence of Concepts and Ideas, CHI '97, Atlanta, GA. March 1997.

James A. Landay. Using Personal Digital Assistants as Group Brainstorming Devices. In Workshop on Ubiquitous Computing: The Impact on Future Interaction Paradigms and HCI Research, CHI '97, Atlanta, GA. March 1997.

Brad A. Myers, Francesmary Modugno, Rich McDaniel, David Kosbie, Andrew Werth, Robert C. Miller, John Pane, James Landay, Jade Goldstein, and Matthew A. Goldberg, **The Demonstrational Interfaces Project at CMU.** 1996 AAAI Spring Symposium on Acquisition, Learning and Demonstration: Automating Tasks for Users. March 25-27, 1996, Stanford, CA, pp. 85-91.

## **UNREFEREED PUBLICATIONS**

magazines

Scott R Klemmer, Michael Thomsen, James A Landay, **The Designers' Outpost:** Capturing and Interacting with Design History, *Boxes and Arrows*, 16 December 2002. www.boxesandarrows.com

technical reports

Yasser Khan, Matthew L. Mauriello, Parsa Nowruzi, Akshara Motani, Grace Hon, Nicholas Vitale, Jinxing Li, Jayoung Kim, Amir Foudeh, Dalton Duvio, Erika Shols, Megan Chesnut, James Landay, Jan Liphardt, Leanne Williams, Keith D. Sudheimer, Boris Murmann, Zhenan Bao, Pablo E. Paredes. **Design considerations of a wearable electronic-skin for mental health and wellness: balancing biosignals and human factors.** bioRxiv 2021.01.20.427496. DOI: https://doi.org/10.1101/2021.01.20.427496N.

Joubert, D.B. Goldman, F. Berthouzoz, M. Roberts, J.A. Landay. 2016. **Towards a Drone Cinematographer: Guiding Quadrotor Cameras using Visual Composition Principles**. arXiv preprint arXiv:1610.01691

S. Ruan, J.O. Wobbrock, K. Liou, A. Ng, J. Landay. 2016. **Speech Is 3x Faster than Typing for English and Mandarin Text Entry on Mobile Devices.** arXiv preprint arXiv:1608.07323

Saponas, T., Lester, J., Froehlich, J, Fogarty, J., Landay, J. 2008. **iLearn on the iPhone: Real-Time Human Activity Classification on Commodity Mobile Phones**. University of Washington CSE Tech Report UW-CSE-08-04-02

Yang Li, Jason I. Hong, James A. Landay. **Using Electronic Tools in the Iterative Design of a Context-Aware Tour Guide: A Case Study,** CS Technical Report, University of California, Berkeley. May 2005. UCB//CSD-05-1389.

Yang Li and James A. Landay, **Interaction-based Rendering Optimization in Sketch-based User Interfaces**, Technical Report of CS Division, University of California, Berkeley. June 10, 2003. UCB//CSD-03-1248.

Ho-Ching, F.W., Mankoff, J., Landay, J.A., From Data to Display: the Design and Evaluation of a Peripheral Sound Display for the Deaf, Technical report UCB//CSD-02-1204, September 2002.

Scott R. Klemmer, Jamey Graham, Gregory J. Wolff, and James A. Landay. **Books with Voices: Paper Transcripts as a Tangible Interface to Oral Histories.** UC Berkeley Computer Science Division Technical Report, UCB//CSD-02-1199, September 2002.

Scott R. Klemmer, Michael Thomsen, Ethan Phelps-Goodman, James A. Landay, Where Do Web Sites Come From? Capturing and Interacting with Design History. Technical Report UCB/CSD-01-1157, CS Division, University of California, Berkeley, CA. September 2001.

- S. R. Klemmer, M. W. Newman, R. Farrell, R. Meza, and J. A. Landay, A Tangible Evolution: System Architecture and Participatory Design Studies of the Designers' Outpost. Technical ReportUCB/CSD- 00-1117, University of California, Berkeley, Technical Report. November 2000.
- M. Bilezikjian, R. L. Mandryk, S. R. Klemmer, K. Inkpen, and J. A. Landay, **Exploring a New Interaction Paradigm for Collaborating on Handheld Computers.** Technical Report UCB/CSD-00-1116, University of California, Berkeley, November 2000.
- A. Chris Long Jr., James A. Landay, and Lawrence A. Rowe, and Joseph Michiels. **Pen Gesture Similarity.** Technical Report UCB/CSD-99-1069, CS Division, EECS Department, University of California, Berkeley, CA. October 1999.

James Lin, Mark Newman, Jason Hong, and James Landay, **DENIM: Finding a Tighter Fit between Tools and Practice for Web Site Design,** Technical Report UCB//CSD-99-1065, CS Division, EECS Department, University of California, Berkeley, CA. 1999.

Mark Newman and James A. Landay. **Site Maps, Storyboards, and Specifications: A Sketch of Web Site Design Practice as Manifested Through Artifacts.** Technical Report UCB//CSD-99-1062, CS Division, EECS Department, UC Berkeley, Berkeley, CA. September 1999.

Jason I. Hong and James A. Landay. A Toolkit for Supporting Informal Inkbased Applications. Technical Report UCB//CSD-99-1058, CS Division, EECS Department, University of California, Berkeley, Berkeley, CA. August 1999.

Richard C. Davis and J.A. Landay, **An Exploration of Lightweight Meeting Capture.** Technical Report CSD-98-1015, CS Division, EECS Department, UC Berkeley, May 1998.

Richard C. Davis, Jason A. Brotherton, James A. Landay, Morgan N. Price Bill N. Schilit. **NotePals: Lightweight Note Taking by the Group, for the Group.** Technical Report UCB//CSD-98-997, CS Division, EECS Department, UC Berkeley, Berkeley, CA. February 1998.

A. Chris Long, Jr., James A. Landay, and Lawrence A. Rowe. **PDA and Gesture Use in Practice: Insights for Designers of Pen-based User Interfaces.** Technical Report UCB//CSD-97-976, CS Division, EECS Department, UC Berkeley, Berkeley, CA. December 1997.

James A. Landay. **Interactive Sketching for the Early Stages of User Interface Design.** Ph.D. Dissertation, Carnegie Mellon University, Computer Science Department Technical Report CMU-CS-96-201, December 1996.

James A. Landay and Brad A. Myers. **Just Draw It! Programming by Sketching Storyboards.** Carnegie Mellon University, Human-Computer Interaction Institute Technical Report CMU-HCII-95-106 and School of Computer Science Technical Report CMU-CS-95-199, November 1995.

Ken Pier and James A. Landay. **Issues for Location-Independent Interfaces.** Technical Report ISTL92-4, Xerox Palo Alto Research Center, December 1992.

Brad A. Myers, Dario Giuse, Andrew Mickish, Brad Vander Zanden, David Kosbie, James A. Landay, Richard McDaniel, Rajan Parthasarathy, Matthew Goldberg, Roger B. Dannenberg, Philippe Marchal, Ed Pervin. **The Garnet Reference Manuals.** Carnegie Mellon University Computer Science Department Technical Report, no. CMU-CS-90-117-R5, Sep. 1994. Revised from CMU-CS-90-117-R4, Oct. 1993, CMU-CS-90-117-R3, Nov. 1992, CMU-CS-90-117-R2, May 1992, CMU-CS-90-117-R, June 1991, CMU-CS-90-117, March, 1990, and CMU-CS-89-196, Nov. 1989.