

Jacob O. Wobbrock, Ph.D.

Professor, The Information School
 Adjunct Professor, Paul G. Allen School of Computer Science & Engineering
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Curriculum Vitae

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BIOGRAPHY

Jacob O. Wobbrock is a Professor of human-computer interaction (HCI) in The Information School (ranked #2), and, by courtesy, in the Paul G. Allen School of Computer Science & Engineering (ranked #6) at the University of Washington, which U.S. News ranked #10 in the world in 2019 and 2020. Prof. Wobbrock's work seeks to scientifically understand people's experiences of computers and information, and to improve those experiences through design and engineering, especially for people with disabilities. His specific research topics include input & interaction techniques, human performance measurement & modeling, HCI research & design methods, mobile computing, and accessible computing. Prof. Wobbrock has co-authored ~160 peer-reviewed publications and received 25 paper awards, including 7 best papers and 8 honorable mentions from ACM CHI, the flagship conference in HCI. For his work on accessible computing, he received the 2017 SIGCHI Social Impact Award and the 2019 SIGACCESS ASSETS Paper Impact Award. He was named the Most Influential Scholar in HCI by AMiner for 2018. He was also inducted into the prestigious CHI Academy in 2019. His work has been covered in The New York Times, The Washington Post, The Huffington Post, USA Today, and other outlets. He is the recipient of an NSF CAREER award and 7 other National Science Foundation grants. He serves on the editorial board of *ACM Transactions on Computer-Human Interaction*. His advisees have been hired at Harvard, Cornell, Colorado, Washington, Brown, Simon Fraser, and elsewhere. Prof. Wobbrock is also an entrepreneur—he was the VC-backed co-founder and C.E.O. of AnswerDash for nearly three years. Prof. Wobbrock received his B.S. with Honors in Symbolic Systems and his M.S. in Computer Science from Stanford University in 1998 and 2000, respectively. He received his Ph.D. in Human-Computer Interaction from Carnegie Mellon University in 2006. Upon graduation, he was honored with CMU's School of Computer Science Distinguished Dissertation Award.

FACULTY POSITIONS

University of Washington · 2006 – present

- Professor, The Information School · 2017 – present
 Adjunct Professor, Paul G. Allen School of Computer Science & Engineering · 2017 – present
- Associate Professor, The Information School · 2011 – 2017
 Adjunct Associate Professor, Department of Computer Science & Engineering · 2011 – 2017
- Assistant Professor, The Information School · 2006 – 2011
 Adjunct Assistant Professor, Department of Computer Science & Engineering · 2006 – 2011

EDUCATION

Ph.D. Human-Computer Interaction, Carnegie Mellon University · 2001 – 2006

- Official concentration in Computer Science. Advisor: Brad A. Myers.
 Dissertation: *EdgeWrite: A Versatile Design for Text Entry and Control*.
 Committee: Brad A. Myers, Scott E. Hudson, Jennifer Mankoff, Richard C. Simpson, Shumin Zhai.

M.S. Computer Science, Stanford University · 1998 – 2000


- Official concentration in Human-Computer Interaction. Advisor: Terry Winograd.

B.S. with Honors, Symbolic Systems, Stanford University · 1994 – 1998

- Official concentration in Human-Computer Interaction. Advisor: Thomas Wasow.
 Honors Thesis: *The Law and Policy of Autonomous Software Agents*.

PUBLICATIONS

Keynotes and Award Talks

- [K.2] Wobbrock, J.O. (2019). **Situationally aware mobile devices for overcoming situational impairments**. Proceedings of the ACM Symposium on Engineering Interactive Computing Systems (EICS '19). Valencia, Spain (June 18-21, 2019). New York: ACM Press. Article No. 1. *Opening Keynote Address*.
- [K.1]  Wobbrock, J.O. (2017). **Ability-Based Design: Elevating ability over disability in accessible computing**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '17). Denver, Colorado (May 6-11, 2017). New York: ACM Press, pp. 5-7. *2017 SIGCHI Social Impact Award*.

Journal Articles

- [J.21] Ross, A.S., Zhang, X., Fogarty, J. and Wobbrock, J.O. (2020). **An epidemiology-inspired large-scale analysis of Android app accessibility.** *ACM Transactions on Accessible Computing*. To appear.
- [J.20] Shinohara, K., Jacobo, N., Pratt, W. and Wobbrock, J.O. (2020). **Design for Social Accessibility method cards: Engaging users and reflecting on social scenarios for accessible design.** *ACM Transactions on Accessible Computing* 12 (4), January 2020. Article No. 17.
- [J.19] Wobbrock, J.O., Gajos, K.Z., Kane, S.K. and Vanderheiden, G.C. (2018). **Ability-Based Design.** *Communications of the ACM* 61 (6), June 2018, pp. 62-71.
- [J.18] Shinohara, K., Bennett, C.L., Pratt, W. and Wobbrock, J.O. (2018). **Tenets for Social Accessibility: Towards humanizing disabled people in design.** *ACM Transactions on Accessible Computing* 11 (1), March 2018. Article No. 6.
- [J.17] Ruan, S., Wobbrock, J.O., Liou, K., Ng, A. and Landay, J.A. (2017). **Comparing speech and keyboard text entry for short messages in two languages on touchscreen phones.** *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies* 1 (4), December 2017. Article No. 159.
- [J.16] Wobbrock, J.O. and Kientz, J.A. (2016). **Research contributions in human-computer interaction.** *ACM Interactions* 23 (3), May + June 2016, pp. 38-44.
- [J.15] Shinohara, K. and Wobbrock, J.O. (2016). **Self-conscious or self-confident? A diary study conceptualizing the social accessibility of assistive technology.** *ACM Transactions on Accessible Computing* 8 (2), January 2016. Article No. 5.
- [J.14] Bigham, J.P., Lasecki, W.S. and Wobbrock, J.O. (2015). **Target acquisition and the crowd actor.** *Human-Computer Interaction* 2 (2), pp. 135-154.
- [J.13] Tran, J.J., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2015). **Evaluating intelligibility and battery drain of mobile sign language video transmitted at low frame rates and bit rates.** *ACM Transactions on Accessible Computing* 7 (3), November 2015. Article No. 11.
- [J.12] Morris, M.R., Danielescu, A., Drucker, S., Fisher, D., Lee, B., schraefel, m.c. and Wobbrock, J.O. (2014). **Reducing legacy bias in gesture elicitation studies.** *ACM Interactions* 21 (3), May + June 2014, pp. 40-45.
- [J.11] Findlater, L. and Wobbrock, J.O. (2012). **From plastic to pixels: In search of touch-typing touchscreen keyboards.** *ACM Interactions* 19 (3), May + June 2012, pp. 44-49.
- [J.10] Wobbrock, J.O., Kane, S.K., Gajos, K.Z., Harada, S. and Froehlich, J. (2011). **Ability-Based Design: Concept, principles and examples.** *ACM Transactions on Accessible Computing* 3 (3), April 2011. Article No. 9.
- [J.9] Gajos, K.Z., Weld, D.S. and Wobbrock, J.O. (2010). **Automatically generating personalized user interfaces with SUPPLE.** *Artificial Intelligence* 174 (12-13), August 2010, pp. 910-950.
- [J.8] Wobbrock, J.O., Ko, A.J. and Kientz, J.A. (2009). **Reflections on the future of iSchools from inspired junior faculty.** *ACM Interactions* 16 (5), September + October 2009, pp. 69-71.
- [J.7] Wobbrock, J.O., Myers, B.A. and Aung, H.H. (2008). **The performance of hand postures in front- and back-of-device interaction for mobile computing.** *International Journal of Human-Computer Studies* 66 (12), December 2008, pp. 857-875.
- [J.6] Wobbrock, J.O. and Gajos, K.Z. (2008). **Goal crossing with mice and trackballs for people with motor impairments: Performance, submovements, and design directions.** *ACM Transactions on Accessible Computing* 1 (1), May 2008. Article No. 4.
- [J.5] Wobbrock, J.O. and Myers, B.A. (2008). **Enabling devices, empowering people: The design and evaluation of Trackball EdgeWrite.** *Disability and Rehabilitation: Assistive Technology* 3 (1-2), January-March 2008, pp. 35-56.
- [J.4] Wobbrock, J.O. and Myers, B.A. (2006). **Analyzing the input stream for character-level errors in unconstrained text entry evaluations.** *ACM Transactions on Computer-Human Interaction* 13 (4), December 2006, pp. 458-489.
- [J.3] Wobbrock, J.O., Aung, H.H., Myers, B.A. and LoPresti, E.F. (2005). **Integrated text entry from power wheelchairs.** *Behaviour and Information Technology* 24 (3), May-June 2005, pp. 187-203.
- [J.2] Myers, B.A., Nichols, J., Wobbrock, J.O. and Miller, R.C. (2004). **Taking handheld devices to the next level.** *IEEE Computer* 36 (12), December 2004, pp. 36-43.
- [J.1] Heckman, C.E. and Wobbrock, J.O. (1999). **Liability for autonomous agent design.** *Journal of Autonomous Agents and Multi-Agent Systems* 2 (1), March 1999, pp. 87-103.






¹ Note that *ACM Interactions* is not a scholarly journal, *per se*, but a “semi-scholarly magazine.”




Refereed Conference Papers^{2†} (Full)

- [C.97] Franz, R.L., Wobbrock, J.O., Cheng, Y. and Findlater, L. (2019). **Perception and adoption of mobile accessibility features by older adults experiencing ability changes**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, Pennsylvania (October 28-30, 2019). New York: ACM Press, pp. 267-278. ^[26%]
- [C.96] Chaudhuri, B., Perlmutter, L., Petelka, J., Garrison, P., Fogarty, J., Wobbrock, J.O. and Ladner, R.E. (2019). **GestureCalc: An eyes-free calculator for touch screens**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, Pennsylvania (October 28-30, 2019). New York: ACM Press, pp. 112-123. ^[26%]
- [C.95] Zhang, M.R., Wen, H. and Wobbrock, J.O. (2019). **Type, then correct: Intelligent text correction techniques for mobile text entry using neural networks**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '19). New Orleans, Louisiana (October 20-23, 2019). New York: ACM Press, pp. 843-855. ^[24%]
- [C.94] Zhang, M.R. and Wobbrock, J.O. (2019). **Beyond the input stream: Making text entry evaluations more flexible with transcription sequences**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '19). New Orleans, Louisiana (October 20-23, 2019). New York: ACM Press, pp. 831-842. ^[24%]
- [C.93]  Wobbrock, J.O., Hsu, A.K., Burger, M.A. and Magee, M.J. (2019). **Isolating the effects of web page visual appearance on the perceived credibility of online news among college students**. Proceedings of the ACM Conference on Hypertext and Social Media (HT '19). Hof, Germany (September 17-20, 2019). New York: ACM Press, pp. 191-200. *Douglas Engelbart Award for Best Paper*. ^[29%]
- [C.92] Evans, A.C., Davis, K. and Wobbrock, J.O. (2019). **Adaptive support for collaboration on tabletop computers**. Proceedings of the International Conference on Computer Supported Collaborative Learning (CSCL '19), vol. 1. Lyon, France (June 17-21, 2019). International Society of the Learning Sciences, pp. 176-183.
- [C.91] Zhang, M.R., Zhai, S. and Wobbrock, J.O. (2019). **Text entry throughput: Towards unifying speed and accuracy in a single performance metric**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19). Glasgow, Scotland (May 4-9, 2019). New York: ACM Press. Paper No. 636. ^[24%]
- [C.90] Mott, M.E. and Wobbrock, J.O. (2019). **Cluster Touch: Improving smartphone touch accuracy for people with motor and situational impairments**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19). Glasgow, Scotland (May 4-9, 2019). New York: ACM Press. Paper No. 27. ^[24%]
- [C.89] Ali, A.X., Morris, M.R. and Wobbrock, J.O. (2019). **Crowdlicit: A system for conducting distributed end-user elicitation and identification studies**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19). Glasgow, Scotland (May 4-9, 2019). New York: ACM Press. Paper No. 255. ^[24%]
- [C.88]  Ross, A.S., Zhang, X., Fogarty, J. and Wobbrock, J.O. (2018). **Examining image-based button labeling for accessibility in Android apps through large-scale analysis**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '18). Galway, Ireland (October 22-24, 2018). New York: ACM Press, pp. 119-130. *Best Paper Nominee*. ^[26%]
- [C.87] Shinohara, K., Wobbrock, J.O. and Pratt, W. (2018). **Incorporating social factors in accessible design**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '18). Galway, Ireland (October 22-24, 2018). New York: ACM Press, pp. 149-160. ^[26%]
- [C.86] Tung, Y.-C., Goel, M., Zinda, I. and Wobbrock, J.O. (2018). **RainCheck: Overcoming capacitive interference caused by rainwater on smartphones**. Proceedings of the ACM International Conference on Multimodal Interaction (ICMI '18). Boulder, Colorado (October 16-20, 2018). New York: ACM Press, pp. 464-471. ^[46%]
- [C.85] Ali, A.X., Morris, M.R. and Wobbrock, J.O. (2018). **Crowdsourcing similarity judgments for agreement analysis in end-user elicitation studies**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '18). Berlin, Germany (October 14-17, 2018). New York: ACM Press, pp. 177-188. ^[21%]
- [C.84]  Vatavu, R.-D., Anthony, L. and Wobbrock, J.O. (2018). **\$Q: A super-quick, articulation-invariant stroke-gesture recognizer for low-resource devices**. Proceedings of the ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '18). Barcelona, Spain (September 3-6, 2018). New York: ACM Press. Article No. 23. *Honorable Mention Paper*. ^[23%]
- [C.83] Mariakakis, A., Parsi, S., Patel, S.N. and Wobbrock, J.O. (2018). **Drunk User Interfaces: Determining blood alcohol level through everyday smartphone tasks**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18). Montreal, Quebec (April 21-26, 2018). New York: ACM Press. Paper No. 234. ^[25%]






² Unlike in most academic fields, premiere conferences in Human-Computer Interaction (e.g., CHI, UIST) are highly selective venues intended for archival papers only. These conferences exceed many HCI journals in their selectivity, visibility, and impact. For a study of the impact of ACM conference proceedings, see <http://dl.acm.org/citation.cfm?id=1743546.1743569>.



[†] Acceptance rates appear in superscript brackets when available.

- [C.82]  O'Leary, K., Schueller, S., Wobbrock, J.O. and Pratt, W. (2018). **"Suddenly, we got to become therapists for each other": Designing peer support chats for mental health.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18). Montreal, Quebec (April 21-26, 2018). New York: ACM Press. Paper No. 331. *Honorable Mention Paper.* ^[25%]
- [C.81]  Ross, A.S., Zhang, X., Fogarty, J. and Wobbrock, J.O. (2017). **Epidemiology as a framework for large-scale mobile application accessibility assessment.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '17). Baltimore, Maryland (October 30 – November 1, 2017). New York: ACM Press, pp. 2-11. *Best Paper Nominee.* ^[26%]
- [C.80] Shinohara, K., Bennett, C.L., Wobbrock, J.O. and Pratt, W. (2017). **Teaching accessibility in a technology design course.** Proceedings of the International Conference on Computer Supported Collaborative Learning (CSCL '17), vol. 1. Philadelphia, Pennsylvania (June 18-22, 2017). International Society of the Learning Sciences, pp. 239-246.
- [C.79] Evans, A.C., Davis, K., Fogarty, J. and Wobbrock, J.O. (2017). **Group Touch: Distinguishing tabletop users in group settings via statistical modeling of touch pairs.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '17). Denver, Colorado (May 6-11, 2017). New York: ACM Press, pp. 35-47. ^[25%]
- [C.78] Mott, M.E., Williams, S., Wobbrock, J.O. and Morris, M.R. (2017). **Improving dwell-based gaze typing with dynamic, cascading dwell times.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '17). Denver, Colorado (May 6-11, 2017). New York: ACM Press, pp. 2558-2570. ^[25%]
- [C.77] Zhang, X., Ross, A., Caspi, A., Fogarty, J. and Wobbrock, J.O. (2017). **Interaction proxies for runtime repair and enhancement of mobile application accessibility.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '17). Denver, Colorado (May 6-11, 2017). New York: ACM Press, pp. 6024-6037. ^[25%]
- [C.76] O'Leary, K., Bhattacharya, A., Munson, S., Wobbrock, J.O. and Pratt, W. (2017). **Design opportunities for mental health peer support technologies.** Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '17). Portland, Oregon (February 25-March 1, 2017). New York: ACM Press, pp. 1470-1484. ^[34%]
- [C.75] Shinohara, K., Bennett, C.L. and Wobbrock, J.O. (2016). **How designing for people with and without disabilities shapes student design thinking.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '16). Reno, Nevada (October 24-26, 2016). New York: ACM Press, pp. 229-237. ^[25%]
- [C.74] Anthony, L., Stofer, K.A., Luc, A. and Wobbrock, J.O. (2016). **Gestures by children and adults on touch tables and touch walls in a public science center.** Proceedings of the ACM Conference on Interaction Design and Children (IDC '16). Manchester, England (June 21-24, 2016). New York: ACM Press, pp. 344-355. ^[47%]
- [C.73]  Mott, M.E., Vatavu, R.-D., Kane, S.K. and Wobbrock, J.O. (2016). **Smart Touch: Improving touch accuracy for people with motor impairments with template matching.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '16). San Jose, California (May 7-12, 2016). New York: ACM Press, pp. 1934-1946. *Best Paper Winner.* ^[23%]
- [C.72] Vatavu, R.-D. and Wobbrock, J.O. (2016). **Between-subjects elicitation studies: Formalization and tool support.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '16). San Jose, California (May 7-12, 2016). New York: ACM Press, pp. 3390-3402. ^[23%]
- [C.71] Evans, A.C., Wobbrock, J.O. and Davis, K. (2016). **Modeling collaboration patterns on an interactive tabletop in a classroom setting.** Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '16). San Francisco, California (February 27-March 2, 2016). New York: ACM Press, pp. 860-871. ^[25%]
- [C.70]  Vatavu, R.-D. and Wobbrock, J.O. (2015). **Formalizing agreement analysis for elicitation studies: New measures, significance test, and toolkit.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '15). Seoul, Korea (April 18-23, 2015). New York: ACM Press, pp. 1325-1334. *Honorable Mention Paper.* ^[23%]
- [C.69]  Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2015). **From user-centered to adoption-centered design: A case study of an HCI research innovation becoming a product.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '15). Seoul, Korea (April 18-23, 2015). New York: ACM Press, pp. 1749-1758. *Best Paper Winner.* ^[23%]
- [C.68] Mariakakis, A., Goel, M., Aumi, M.T.I., Patel, S.N. and Wobbrock, J.O. (2015). **SwitchBack: Using focus and saccade tracking to guide users' attention for mobile task resumption.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '15). Seoul, Korea (April 18-23, 2015). New York: ACM Press, pp. 2953-2962. ^[23%]
- [C.67] Vatavu, R.-D., Anthony, L. and Wobbrock, J.O. (2014). **Gesture heatmaps: Understanding gesture performance with colorful visualizations.** Proceedings of the ACM International Conference on Multimodal Interaction (ICMI '14). Istanbul, Turkey (November 12-16, 2014). New York: ACM Press, pp. 172-179. ^[39%]
- [C.66] Tran, J.J., Flowers, B., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2014). **Analyzing the intelligibility of real-time mobile sign language video transmitted below recommended standards.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '14). Rochester, New York (October 20-22, 2014). New York: ACM Press, pp. 177-184. ^[26%]
- [C.65] Mott, M.E. and Wobbrock, J.O. (2014). **Beating the bubble: Using kinematic triggering in the Bubble Lens for acquiring small, dense targets.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '14). Toronto, Ontario (April 26-May 1, 2014). New York: ACM Press, pp. 733-742. ^[23%]


- [C.64] Pasqual, P.T. and Wobbrock, J.O. (2014). **Mouse pointing endpoint prediction using kinematic template matching**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '14). Toronto, Ontario (April 26-May 1, 2014). New York: ACM Press, pp. 743-752. ^[23%]
- [C.63] Vatavu, R.-D., Anthony, L. and Wobbrock, J.O. (2013). **Relative accuracy measures for stroke gestures**. Proceedings of the ACM International Conference on Multimodal Interaction (ICMI '13). Sydney, Australia (December 9-13, 2013). New York: ACM Press, pp. 279-286. ^[20%]
- [C.62] Kane, S.K., Morris, M.R. and Wobbrock, J.O. (2013). **Touchplates: Low-cost tactile overlays for visually impaired touch screen users**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '13). Bellevue, Washington (October 21-23, 2013). New York: ACM Press. Article No. 22. ^[29%]
- [C.61] Tran, J.J., Rodriguez, R., Riskin, E.A. and Wobbrock, J.O. (2013). **A web-based intelligibility evaluation of sign language video transmitted at low frame rates and bitrates**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '13). Bellevue, Washington (October 21-23, 2013). New York: ACM Press. Article No. 2. ^[29%]
- [C.60] Dell, N., Breit, N., Wobbrock, J.O. and Borriello, G. (2013). **Improving form-based data entry with image snippets**. Proceedings of Graphics Interface (GI '13). Regina, Saskatchewan (May 29-31, 2013). Toronto, Ontario: Canadian Information Processing Society, pp. 157-164. ^[38%]
- [C.59] Anthony, L., Vatavu, R.-D. and Wobbrock, J.O. (2013). **Understanding the consistency of users' pen and finger stroke gesture articulation**. Proceedings of Graphics Interface (GI '13). Regina, Saskatchewan (May 29-31, 2013). Toronto, Ontario: Canadian Information Processing Society, pp. 87-94. ^[38%]
- [C.58] O'Leary, K., Wobbrock, J.O. and Riskin, E.A. (2013). **Q-methodology as a research and design tool for HCI**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013). New York: ACM Press, pp. 1941-1950. ^[20%]
- [C.57] Chilana, P.K., Ko, A.J., Wobbrock, J.O. and Grossman, T. (2013). **A multi-site field study of crowdsourced contextual help: Usage and perspectives of end-users and software teams**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013). New York: ACM Press, pp. 217-226. ^[20%]
- [C.56]  Vatavu, R.-D., Anthony, L. and Wobbrock, J.O. (2012). **Gestures as point clouds: A $\$P$ recognizer for user interface prototypes**. Proceedings of the ACM International Conference on Multimodal Interaction (ICMI '12). Santa Monica, California (October 22-26, 2012). New York: ACM Press, pp. 273-280. *Outstanding Paper Winner*. ^[21%]
- [C.55]  Azenkot, S., Rector, K., Ladner, R.E. and Wobbrock, J.O. (2012). **PassChords: Secure multi-touch authentication for blind people**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '12). Boulder, Colorado (October 22-24, 2012). New York: ACM Press, pp. 159-166. *Best Paper Winner*. ^[28%]
- [C.54] Goel, M., Wobbrock, J.O. and Patel, S.N. (2012). **GripSense: Using built-in sensors to detect hand posture and pressure on commodity mobile phones**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '12). Cambridge, Massachusetts (October 7-10, 2012). New York: ACM Press, pp. 545-554. ^[21%]
- [C.53] Azenkot, S., Wobbrock, J.O., Prasain, S. and Ladner, R.E. (2012). **Input Finger Detection for nonvisual touch screen text entry in Perkinput**. Proceedings of Graphics Interface (GI '12). Toronto, Ontario (May 28-30, 2012). Toronto, Ontario: Canadian Information Processing Society, pp. 121-129. ^[38%]
- [C.52] Levy, D.M., Wobbrock, J.O., Kaszniak, A.W. and Ostergren, M. (2012). **The effects of mindfulness meditation training on multitasking in a high-stress information environment**. Proceedings of Graphics Interface (GI '12). Toronto, Ontario (May 28-30, 2012). Toronto, Ontario: Canadian Information Processing Society, pp. 45-52. ^[38%]
- [C.51] Evans, A.C. and Wobbrock, J.O. (2012). **Taming wild behavior: The Input Observer for obtaining text entry and mouse pointing measures from everyday computer use**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 1947-1956. ^[23%]
- [C.50]  Goel, M., Findlater, L. and Wobbrock, J.O. (2012). **WalkType: Using accelerometer data to accommodate situational impairments in mobile touch screen text entry**. Proceedings of the ACM Conference on Human Factors in Computing System (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 2687-2696. *Honorable Mention Paper*. ^[23%]
- [C.49] Findlater, L. and Wobbrock, J.O. (2012). **Personalized input: Improving ten-finger touchscreen typing through automatic adaptation**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 815-824. ^[23%]
- [C.48] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2012). **LemonAid: Selection-based crowdsourced contextual help for web applications**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 1549-1558. ^[23%]
- [C.47] Dixon, M., Fogarty, J. and Wobbrock, J.O. (2012). **A general-purpose target-aware pointing enhancement using pixel-level analysis of graphical interfaces**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 3167-3176. ^[23%]

- [C.46] Tran, J.J., Kim, J., Chon, J., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2011). **Evaluating quality and comprehension of real-time sign language video on mobile phones.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '11). Dundee, Scotland (October 24-26, 2011). New York: ACM Press, pp. 115-122. ^[30%]
- [C.45] Avrahami, D., Wobbrock, J.O. and Izadi, S. (2011). **Portico: Tangible interaction on and around a tablet.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '11). Santa Barbara, California (October 16-19, 2011). New York: ACM Press, pp. 347-356. ^[25%]
- [C.44] Kane, S.K., Morris, M.R., Perkins, A.Z., Wigdor, D., Ladner, R.E., and Wobbrock, J.O. (2011). **Access Overlays: Improving non-visual access to large touch screens for blind users.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '11). Santa Barbara, California (October 16-19, 2011). New York: ACM Press, pp. 273-282. ^[25%]
- [C.43] Harada, S., Wobbrock, J.O. and Landay, J.A. (2011). **Voice Games: Investigation into the use of non-speech voice input for making computer games more accessible.** Proceedings of the IFIP TC13 International Conference on Human-Computer Interaction (INTERACT '11). Lisbon, Portugal (September 5-9, 2011). Lecture Notes in Computer Science, vol. 6946/2011. Berlin, Germany: Springer-Verlag, pp. 11-29. ^[27%]
- [C.42] Wobbrock, J.O., Shinohara, K. and Jansen, A. (2011). **The effects of task dimensionality, endpoint deviation, throughput calculation, and experiment design on pointing measures and models.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 1639-1648. ^[26%]
- [C.41] Findlater, L., Wobbrock, J.O. and Wigdor, D. (2011). **Typing on flat glass: Examining ten-finger expert typing patterns on touch surfaces.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 2453-2462. *Honorable Mention Paper.* ^[26%]
- [C.40] Shinohara, K. and Wobbrock, J.O. (2011). **In the shadow of misperception: Assistive technology use and social interactions.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 705-714. *Best Paper Winner.* ^[26%]
- [C.39] Azenkot, S., Prasain, S., Boring, A., Fortuna, E., Ladner, R.E. and Wobbrock, J.O. (2011). **Enhancing independence and safety for blind and deaf-blind public transit riders.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 3247-3256. ^[26%]
- [C.38] Kane, S.K., Wobbrock, J.O. and Ladner, R.E. (2011). **Usable gestures for blind people: Understanding preference and performance.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 413-422. *Best Paper Winner.* ^[26%]
- [C.37] Tran, J.J., Johnson, T.W., Kim, J., Rodriguez, R., Yin, S., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2010). **A web-based user survey for evaluating power saving strategies for deaf users of MobileASL.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '10). Orlando, Florida (October 25-27, 2010). New York: ACM Press, pp. 115-122. ^[31%]
- [C.36] Findlater, L., Jansen, A., Shinohara, K., Dixon, M., Kamb, P., Rakita, J. and Wobbrock, J.O. (2010). **Enhanced area cursors: Reducing fine-pointing demands for people with motor impairments.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '10). New York, NY (October 3-6, 2010). New York: ACM Press, pp. 153-162. ^[18%]
- [C.35] Rosenthal, S., Kane, S.K., Wobbrock, J.O. and Avrahami, D. (2010). **Augmenting on-screen instructions with micro-projected guides: When it works, and when it fails.** Proceedings of the ACM Conference on Ubiquitous Computing (UbiComp '10). Copenhagen, Denmark (September 26-29, 2010). New York: ACM Press, pp. 203-212. ^[19%]
- [C.34] Ko, A.J. and Wobbrock, J.O. (2010). **Cleanroom: Edit-time error detection with the uniqueness heuristic.** Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10). Madrid, Spain (September 21-25, 2010). Washington, D.C.: IEEE Computer Society, pp. 7-14. *Best Paper Winner.* ^[29%]
- [C.33] Morris, M.R., Wobbrock, J.O. and Wilson, A.D. (2010). **Understanding users' preferences for surface gestures.** Proceedings of Graphics Interface (GI '10). Ottawa, Ontario (May 31-June 2, 2010). Toronto, Ontario: Canadian Information Processing Society, pp. 261-268. ^[39%]
- [C.32] Anthony, L. and Wobbrock, J.O. (2010). **A lightweight multistroke recognizer for user interface prototypes.** Proceedings of Graphics Interface (GI '10). Ottawa, Ontario (May 31-June 2, 2010). Toronto, Ontario: Canadian Information Processing Society, pp. 245-252. ^[39%]
- [C.31] Chilana, P.K., Wobbrock, J.O. and Ko, A.J. (2010). **Understanding usability practices in complex domains.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '10). Atlanta, Georgia (April 10-15, 2010). New York: ACM Press, pp. 2337-2346. ^[22%]
- [C.30] Kane, S.K., Jayant, C., Wobbrock, J.O. and Ladner, R.E. (2009). **Freedom to roam: A study of mobile device adoption and accessibility for people with visual and motor disabilities.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '09). Pittsburgh, Pennsylvania (October 25-28, 2009). New York: ACM Press, pp. 115-122. ^[31%]
- [C.29] Kane, S.K., Avrahami, D., Wobbrock, J.O., Harrison, B., Rea, A., Philipose, M. and LaMarca, A. (2009). **Bonfire: A nomadic system for hybrid laptop-tabletop interaction.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '09). Victoria, British Columbia (October 4-7, 2009). New York: ACM Press, pp. 129-138. ^[19%]

- [C.28] Cherniavsky, N., Chon, J., Wobbrock, J.O., Ladner, R.E. and Riskin, E.A. (2009). **Activity analysis enabling real-time video communication on mobile phones for deaf users.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '09). Victoria, British Columbia (October 4-7, 2009). New York: ACM Press, pp. 79-88. ^[19%]
- [C.27] Wobbrock, J.O., Fogarty, J., Liu, S., Kimuro, S. and Harada, S. (2009). **The Angle Mouse: Target-agnostic dynamic gain adjustment based on angular deviation.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '09). Boston, Massachusetts (April 4-9, 2009). New York: ACM Press, pp. 1401-1410. ^[24%]
- [C.26]  Wobbrock, J.O., Morris, M.R. and Wilson, A.D. (2009). **User-defined gestures for surface computing.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '09). Boston, Massachusetts (April 4-9, 2009). New York: ACM Press, pp. 1083-1092. *Best Paper Nominee.* ^[24%]
- [C.25] Harada, S., Wobbrock, J.O., Malkin, J., Billes, J. and Landay, J.A. (2009). **Longitudinal study of people learning to use continuous voice-based cursor control.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '09). Boston, Massachusetts (April 4-9, 2009). New York: ACM Press, pp. 347-356. ^[24%]
- [C.24] Harada, S., Lester, J., Patel, K., Saponas, T.S., Fogarty, J., Landay, J.A. and Wobbrock, J.O. (2008). **VoiceLabel: Using speech to label mobile sensor data.** Proceedings of the ACM International Conference on Multimodal Interfaces (ICMI '08). Chania, Crete, Greece (October 20-22, 2008). New York: ACM Press, pp. 69-76. ^[47%]
- [C.23]  Kane, S.K., Bigham, J.P. and Wobbrock, J.O. (2008). **Slide Rule: Making mobile touch screens accessible to blind people using multi-touch interaction techniques.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '08). Halifax, Nova Scotia (October 13-15, 2008). New York: ACM Press, pp. 73-80. *2019 SIGACCESS ASSETS Paper Impact Award.* ^[37%]
- [C.22]  Kane, S.K., Wobbrock, J.O. and Smith, I.E. (2008). **Getting off the treadmill: Evaluating walking user interfaces for mobile devices in public spaces.** Proceedings of the ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '08). Amsterdam, The Netherlands (September 18-20, 2008). New York: ACM Press, pp. 109-118. *Best Paper Winner.* ^[32%]
- [C.21]  Wobbrock, J.O., Cutrell, E., Harada, S. and MacKenzie, I.S. (2008). **An error model for pointing based on Fitts' law.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '08). Florence, Italy (April 5-10, 2008). New York: ACM Press, pp. 1613-1622. *Best Paper Winner.* ^[21%]
- [C.20]  Gajos, K.Z., Wobbrock, J.O. and Weld, D.S. (2008). **Improving the performance of motor-impaired users with automatically-generated, ability-based interfaces.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '08). Florence, Italy (April 5-10, 2008). New York: ACM Press, pp. 1257-1266. *Best Paper Winner.* ^[21%]
- [C.19] Wobbrock, J.O., Rubinstein, J., Sawyer, M.W. and Duchowski, A.T. (2008). **Longitudinal evaluation of discrete consecutive gaze gestures for text entry.** Proceedings of the ACM Symposium on Eye Tracking Research and Applications (ETRA '08). Savannah, Georgia (March 26-28, 2008). New York: ACM Press, pp. 11-18. ^[40%]
- [C.18] Wobbrock, J.O. and Gajos, K.Z. (2007). **A comparison of area pointing and goal crossing for people with and without motor impairments.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '07). Tempe, Arizona (October 15-17, 2007). New York: ACM Press, pp. 3-10. ^[31%]
- [C.17] Froehlich, J., Wobbrock, J.O. and Kane, S.K. (2007). **Barrier Pointing: Using physical edges to assist target acquisition on mobile device touch screens.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '07). Tempe, Arizona (October 15-17, 2007). New York: ACM Press, pp. 19-26. ^[31%]
- [C.16] Harada, S., Wobbrock, J.O. and Landay, J.A. (2007). **VoiceDraw: A voice-driven hands-free drawing application.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '07). Tempe, Arizona (October 15-17, 2007). New York: ACM Press, pp. 27-34. ^[31%]
- [C.15] Bigham, J.P., Cavender, A.C., Brudvik, J.T., Wobbrock, J.O. and Ladner, R.E. (2007). **WebinSitu: A comparative analysis of blind and sighted browsing behavior.** Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '07). Tempe, Arizona (October 15-17, 2007). New York: ACM Press, pp. 51-58. ^[31%]
- [C.14] Wobbrock, J.O., Wilson, A.D. and Li, Y. (2007). **Gestures without libraries, toolkits or training: A \$1 recognizer for user interface prototypes.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '07). Newport, Rhode Island (October 7-10, 2007). New York: ACM Press, pp. 159-168. *Invited for Reprise at SIGGRAPH '08.* ^[17%]
- [C.13] Gajos, K.Z., Wobbrock, J.O. and Weld, D.S. (2007). **Automatically generating user interfaces adapted to users' motor and vision capabilities.** Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '07). Newport, Rhode Island (October 7-10, 2007). New York: ACM Press, pp. 231-240. ^[17%]
- [C.12] González, I.E., Wobbrock, J.O., Chau, D.H., Faulring, A. and Myers, B.A. (2007). **Eyes on the road, hands on the wheel: Thumb-based interaction techniques for input on steering wheels.** Proceedings of Graphics Interface (GI '07). Montreal, Quebec (May 28-30, 2007). Toronto, Ontario: Canadian Information Processing Society, pp. 95-102. ^[41%]
- [C.11] Wobbrock, J.O., Chau, D.H. and Myers, B.A. (2007). **An alternative to push, press, and tap-tap-tap: Gesturing on an isometric joystick for mobile phone text entry.** Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '07). San Jose, California (April 28-May 3, 2007). New York: ACM Press, pp. 667-676. ^[22%]

- [C.10] Wobbrock, J.O. and Myers, B.A. (2006). **From letters to words: Efficient stroke-based word completion for trackball text entry**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '06). Portland, Oregon (October 23-25, 2006). New York: ACM Press, pp. 2-9. ^[33%]
- [C.9]  Wobbrock, J.O. and Myers, B.A. (2006). **Trackball text entry for people with motor impairments**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '06). Montreal, Quebec (April 22-27, 2006). New York: ACM Press, pp. 479-488. *Best Paper Winner*. ^[23%]
- [C.8] Myers, B.A. and Wobbrock, J.O. (2005). **Text input to handheld devices for people with physical disabilities**. Proceedings of the International Conference on Human-Computer Interaction (HCI Int'l '05). Las Vegas, Nevada (July 22-27, 2005). Mahwah, New Jersey: Lawrence Erlbaum Associates, vol. 4, pp. 1962-1970. ^[39%]
- [C.7]  Wobbrock, J.O., Myers, B.A., Aung, H.H. and LoPresti, E.F. (2004). **Text entry from power wheelchairs: EdgeWrite for joysticks and touchpads**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '04). Atlanta, Georgia (October 18-20, 2004). New York: ACM Press, pp. 110-117. *Best Paper Winner*. ^[53%]
- [C.6] Wobbrock, J.O., Myers, B.A. and Aung, H.H. (2004). **Writing with a joystick: A comparison of date stamp, selection keyboard and EdgeWrite**. Proceedings of Graphics Interface (GI '04). London, Ontario (May 17-19, 2004). Toronto, Ontario: Canadian Information Processing Society, pp. 1-8. ^[38%]
- [C.5] Wobbrock, J.O., Myers, B.A. and Kembel, J.A. (2003). **EdgeWrite: A stylus-based text entry method designed for high accuracy and stability of motion**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '03). Vancouver, British Columbia (November 2-5, 2003). New York: ACM Press, pp. 61-70. ^[22%]
- [C.4] Myers, B.A., Wobbrock, J.O., Yang, S., Yeung, B., Nichols, J. and Miller, R. (2002). **Using handhelds to help people with motor impairments**. Proceedings of the ACM Conference on Assistive Technologies (ASSETS '02). Edinburgh, Scotland (July 8-10, 2002). New York: ACM Press, pp. 89-96. ^[41%]
- [C.3] Nichols, J., Wobbrock, J.O., Gergle, D. and Forlizzi, J. (2002). **Mediator and medium: Doors as interruption gateways and aesthetic displays**. Proceedings of the ACM Symposium on Designing Interactive Systems (DIS '02). London, England (June 25-28, 2002). New York: ACM Press, pp. 379-386. ^[22%]
- [C.2] Heckman, C.E. and Wobbrock, J.O. (2000). **Put your best face forward: Anthropomorphic agents, e-commerce consumers, and the law**. Proceedings of the ACM Conference on Autonomous Agents (AGENTS '00). Barcelona, Spain (June 3-7, 2000). New York: ACM Press, pp. 435-442. ^[24%]
- [C.1] Heckman, C.E. and Wobbrock, J.O. (1998). **Liability for autonomous agent design**. Proceedings of the ACM Conference on Autonomous Agents (AGENTS '98). Minneapolis, Minnesota (May 10-13, 1998). New York: ACM Press, pp. 392-399. ^[32%]

Refereed Conference Papers (Notes³)

- [N.20] Zhang, M.R. and Wobbrock, J.O. (2020). **Gedit: Keyboard gestures for mobile text editing**. Proceedings of Graphics Interface (GI '20). Toronto, Ontario (May 21-22, 2020). Toronto, Ontario: Canadian Information Processing Society. To appear.
- [N.19] Franz, R.L., Findlater, L., Neves, B.B. and Wobbrock, J.O. (2019). **Gender and help seeking by older adults when learning new technologies**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, Pennsylvania (October 28-30, 2019). New York: ACM Press, pp. 136-142. ^[26%]
- [N.18] Evans, A. and Wobbrock, J.O. (2014). **Filling in the gaps: Capturing social regulation in an interactive tabletop learning environment**. Proceedings of the International Conference of the Learning Sciences (ICLS '14), vol. 2. Boulder, Colorado (June 23-27, 2014). International Society of the Learning Sciences, pp. 1157-1161. ^[32%]
- [N.17] Kay, M., Rector, K., Consolvo, S., Greenstein, B., Wobbrock, J.O., Watson, N.F., Kientz, J.A. (2013). **PVT-Touch: Adapting a reaction time test for touchscreen devices**. Proceedings of the International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '13). Venice, Italy (May 5-8, 2013). Washington, D.C.: IEEE Computer Society, pp. 248-251. ^[30%]
- [N.16] Goel, M., Jansen, A., Mandel, T., Patel, S.N. and Wobbrock, J.O. (2013). **ContextType: Using hand posture information to improve mobile touch screen text entry**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013). New York: ACM Press, pp. 2795-2798. ^[20%]
- [N.15]  Findlater, L., Froehlich, J., Fattal, K., Wobbrock, J.O. and Dastyar, T. (2013). **Age-related differences in performance with touchscreens compared to traditional mouse input**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013). New York: ACM Press, pp. 343-346. *Honorable Mention Paper*. ^[20%]
- [N.14] Kane, S.K., Frey, B. and Wobbrock, J.O. (2013). **Access Lens: A gesture-based screen reader for real-world documents**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013). New York: ACM Press, pp. 347-350. ^[20%]

³ Although Notes are shorter than full papers, they are just as rigorously peer-reviewed and often have lower acceptance rates. CHI Notes and UIST TechNotes, especially, are considered top-tier publications in Human-Computer Interaction.

- [N.13] Anthony, L. and Wobbrock, J.O. (2012). **\$N\$-Protractor: A fast and accurate multistroke recognizer**. Proceedings of Graphics Interface (GI '12). Toronto, Ontario (May 28-30, 2012). Toronto, Ontario: Canadian Information Processing Society, pp. 117-120. [38%]
- [N.12] Findlater, L., Lee, B.Q. and Wobbrock, J.O. (2012). **Beyond QWERTY: Augmenting touch screen keyboards with multi-touch gestures for non-alphanumeric input**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 2679-2682. *Honorable Mention Paper*. [26%]
- [N.11] Wobbrock, J.O., Findlater, L., Gergle, D. and Higgins, J.J. (2011). **The Aligned Rank Transform for nonparametric factorial analyses using only ANOVA procedures**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 143-146. *Honorable Mention Paper*. [23%]
- [N.10] Wobbrock, J.O., Jansen, A. and Shinohara, K. (2011). **Modeling and predicting pointing errors in two dimensions**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 1653-1656. [26%]
- [N.9] Chilana, P.K., Ko, A.J., Wobbrock, J.O., Grossman, T. and Fitzmaurice, G. (2011). **Post-deployment usability: A survey of current practices**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 2243-2246. [26%]
- [N.8] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2010). **Understanding expressions of unwanted behaviors in open bug reporting**. Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10). Madrid, Spain (September 21-25, 2010). Washington, D.C.: IEEE Computer Society, pp. 203-206. [12%]
- [N.7] Wobbrock, J.O. (2009). **TapSongs: Tapping rhythm-based passwords on a single binary sensor**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '09). Victoria, British Columbia (October 4-7, 2009). New York: ACM Press, pp. 93-96. [17%]
- [N.6] Gajos, K.Z., Weld, D.S. and Wobbrock, J.O. (2008). **Decision-theoretic user interface generation**. Proceedings of the AAAI Conference on Artificial Intelligence (AAAI '08). Chicago, Illinois (July 13-17, 2008). Menlo Park, California: AAAI Press, pp. 1532-1536. [21%]
- [N.5] Kane, S.K., Wobbrock, J.O., Harniss, M. and Johnson, K.L. (2008). **TrueKeys: Identifying and correcting typing errors for people with motor impairments**. Proceedings of the ACM Conference on Intelligent User Interfaces (IUI '08). Maspalomas, Gran Canaria, Spain (January 13-16, 2008). New York: ACM Press, pp. 349-352. [30%]
- [N.4] Wobbrock, J.O., Myers, B.A. and Chau, D.H. (2006). **In-stroke word completion**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '06). Montreux, Switzerland (October 15-18, 2006). New York: ACM Press, pp. 333-336. [23%]
- [N.3] Wobbrock, J.O., Myers, B.A. and Rothrock, B. (2006). **Few-key text entry revisited: Mnemonic gestures on four keys**. Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '06). Montreal, Quebec (April 22-27, 2006). New York, ACM Press, pp. 489-492. [23%]
- [N.2] Wobbrock, J.O., Aung, H.H., Rothrock, B. and Myers, B.A. (2005). **Maximizing the guessability of symbolic input**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '05). Portland, Oregon (April 2-7, 2005). New York: ACM Press, pp. 1869-1872. [25%]
- [N.1] Wobbrock, J.O., Forlizzi, J., Hudson, S.E. and Myers, B.A. (2002). **WebThumb: Interaction techniques for small-screen browsers**. Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '02). Paris, France (October 27-30, 2002). New York: ACM Press, pp. 205-208. [22%]

Refereed Papers with Posters

- [P.17] Franz, R.L., Findlater, L. and Wobbrock, J.O. (2019). **Just ask me: Comparing older and younger individuals' knowledge of their optimal touchscreen target sizes**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, Pennsylvania (October 28-30, 2019). New York: ACM Press, pp. 591-593. [58%]
- [P.16] Perlmutter, L., Chaudhuri, B., Petelka, J., Garrison, P., Fogarty, J., Wobbrock, J.O. and Ladner, R.E. (2019). **Demonstration of GestureCalc: An eyes-free calculator for touch screens**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '19). Pittsburgh, Pennsylvania (October 28-30, 2019). New York: ACM Press, pp. 667-669. [58%]
- [P.15] O'Leary, K., Dixon, M., Toomim, M., Wobbrock, J.O. and Pratt, W. (2016). **Peer-to-peer psychotherapy tools**. Proceedings of the International Society for Research on Internet Interventions Scientific Meeting (ISRII '16). Seattle, Washington (April 7-9, 2016). Poster No. P3.41.
- [P.14] O'Leary, K., Delahunt, C., Dowden, P., Darmansya, I., Heng, J., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2012). **Design goals for a system for enhancing AAC with personalized video**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '12). Boulder, Colorado (October 22-24, 2012). New York: ACM Press, pp. 223-224. [70%]

- [P.13] Azenkot, S., Ladner, R.E. and Wobbrock, J.O. (2011). **Smartphone haptic feedback for nonvisual wayfinding**. Proceedings of the ACM Conference on Computers and Accessibility (ASSETS '11). Dundee, Scotland (October 24-26, 2011). New York: ACM Press, pp. 281-282. ^[50%]
- [P.12] Evans, A. and Wobbrock, J.O. (2011). **Input Observer: Measuring text entry and pointing performance from naturalistic everyday computer use**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 1879-1884. ^[45%]
- [P.11] Jansen, A., Findlater, L. and Wobbrock, J.O. (2011). **From the lab to the world: Lessons from extending a pointing technique for real-world use**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 1867-1872. ^[45%]
- [P.10] Levy, D.M., Wobbrock, J.O., Kaszniak, A.W. and Ostergren, M. (2011). **Initial results from a study of the effects of meditation on multitasking performance**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 2011-2016. ^[45%]
- [P.9] Kim, J., Tran, J.J., Johnson, T.W., Ladner, R., Riskin, E. and Wobbrock, J.O. (2011). **Effect of MobileASL on communication among deaf users**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 2185-2190. ^[45%]
- [P.8] Choe, E.K., Shinohara, K., Chilana, P.K., Dixon, M. and Wobbrock, J.O. (2009). **Exploring the design of accessible goal crossing desktop widgets**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '09). Boston, Massachusetts (April 4-9, 2009). New York: ACM Press, pp. 3733-3738. ^[34%]
- [P.7] Kane, S.K. and Wobbrock, J.O. (2007). **Automatically correcting typing errors for people with motor impairments**. Adjunct Proceedings of the ACM Symposium on User Interface Software and Technology (UIST '07). Newport, Rhode Island (October 7-10, 2007). New York: ACM Press, pp. 59-60.
- [P.6] Chau, D.H., Wobbrock, J.O., Myers, B.A. and Rothrock, B. (2006). **Integrating isometric joysticks into mobile phones for text entry**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '06). Montreal, Quebec (April 22-27, 2006). New York: ACM Press, pp. 640-645. ^[50%]
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- [P.4] Wobbrock, J.O. and Myers, B.A. (2005). **EdgeWrite: A new text entry technique designed for stability**. Proceedings of the RESNA Annual Conference (RESNA '05). Atlanta, Georgia (June 23-27, 2005). Arlington, Virginia: RESNA Press.
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- [P.1] Wobbrock, J.O. (2002). **In your own words: Using full sentences as feedback**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '02). Minneapolis, Minnesota (April 20-25, 2002). New York: ACM Press, pp. 866-867.

Workshop Papers

- [W.19] Tigwell, G.W., Sarsenbayeva, Z., Gorman, B.M., Flatla, D.R., Goncalves, J., Yesilada, Y. and Wobbrock, J.O. (2019). **Addressing the challenges of situationally-induced impairments and disabilities in mobile interaction**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '19). Glasgow, Scotland (May 4-9, 2019). New York: ACM Press. Paper No. W30. ^[31%]
- [W.18] Franz, R., Findlater, L. and Wobbrock, J.O. (2018). **Lost in transition: The importance of conceptualizing aging as a process in accessibility research**. Workshop on "Designing Interactions for the Ageing Populations." ACM Conference on Human Factors in Computing Systems (CHI '18). Montreal, Quebec (April 21-26, 2018), pp. 53-58.
- [W.17] Wobbrock, J.O. (2017). **The relevance of nonparametric and semi-parametric statistics to HCI**. Workshop on "Moving Transparent Statistics Forward." ACM Conference on Human Factors in Computing Systems (CHI '17). Denver, Colorado (May 6-11, 2017). Paper No. 2.
- [W.16] Tran, J.J., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2013). **Human-centered approach evaluating mobile sign language video communication**. Grace Hopper Celebration of Women in Computing Conference (GHC '13). Minneapolis, Minnesota (October 2-5, 2013).
- [W.15] Azenkot, S., Rector, K., Ladner, R.E. and Wobbrock, J.O. (2013). **The need for research on mobile technologies for people with low-vision**. Third Mobile Accessibility Workshop (MOBACC '13). ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013).

- [W.14] Tran, J.J., Riskin, E.A., Ladner, R.E. and Wobbrock, J.O. (2013). **Increasing mobile sign language video accessibility by relaxing video transmission standards**. Third Mobile Accessibility Workshop (MOBACC '13). ACM Conference on Human Factors in Computing Systems (CHI '13). Paris, France (April 27-May 2, 2013).
- [W.13] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2013). **Crowdsourced Q&A-based contextual help for web applications: Challenges and opportunities**. Workshop on "Social Media Question Asking." ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '13). San Antonio, Texas (February 23-27, 2013).
- [W.12] Bernstein, M., Cosley, D., DiSalvo, C., Kairam, S., Karger, D., Kriplean, T., Lampe, C., Mackay, W., Terveen, L., Wobbrock, J. and Yardi, S. (2012). **Reject me: Peer review and SIGCHI**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 1197-1200.
- [W.11] Kristensson, P.O., Clawson, J., Dunlop, M., Isokoski, P., Roark, B., Vertanen, K., Waller, A. and Wobbrock, J.O. (2012). **Designing and evaluating text entry methods**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '12). Austin, Texas (May 5-10, 2012). New York: ACM Press, pp. 2747-2750.
- [W.10] Wobbrock, J.O. (2011). **Practical statistics for human-computer interaction: An independent study combining statistics theory and tool know-how**. Annual Workshop of the Human-Computer Interaction Consortium (HCIC '11). Pacific Grove, California (June 14-18, 2011).
- [W.9] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2011). **Using crowdsourcing in the design of context-sensitive help for web applications**. Workshop on "Crowdsourcing and Human Computation." ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011).
- [W.8] Hurst, A., Gajos, K.Z., Findlater, L., Wobbrock, J.O., Sears, A. and Trewin, S. (2011). **Dynamic accessibility: Detecting and accommodating differences in ability and situation**. Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '11). Vancouver, British Columbia (May 7-12, 2011). New York: ACM Press, pp. 41-44.
- [W.7] Harada, S., Wobbrock, J.O. and Landay, J.A. (2009). **Beyond speech recognition: Improving voice-driven access to computers**. Proceedings of the 2009 IEEE-IBM Accessing the Future Conference. Boston, Massachusetts (July 20-21, 2009).
- [W.6] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2009). **Designing software for unfamiliar domains**. Workshop on Cooperative and Human Aspects of Software Engineering (CHASE '09). In Companion of the International Conference on Software Engineering (ICSE '09). Vancouver, British Columbia (May 17, 2009). Washington, D.C.: IEEE Computer Society, p. 22.
- [W.5] Wobbrock, J.O., Rubinstein, J., Sawyer, M. and Duchowski, A.T. (2007). **Not typing but writing: Eye-based text entry using letter-like gestures**. Proceedings of the Annual Conference on Communication by Gaze Interaction (COGAIN '07). Leicester, England (September 3-4, 2007). Frederiksberg, Denmark: The COGAIN Association, pp. 61-64. ^[628]
- [W.4] Wobbrock, J.O. (2006). **The future of mobile device research in HCI**. Workshop on "What is the Next Generation of Human-Computer Interaction?" ACM Conference on Human Factors in Computing Systems (CHI '06). Montreal, Quebec (April 22-27, 2006), pp. 131-134.
- [W.3] Wobbrock, J.O. (2006). **A robust design for accessible text entry**. Accessibility and Computing: The Newsletter of ACM SIGACCESS (no. 84, January 2006). New York: ACM Press, pp. 48-51. First appeared in the Doctoral Consortium of ACM ASSETS 2005, Baltimore, Maryland (October 9-12, 2005).
- [W.2] Wobbrock, J.O., Myers, B.A. and Hudson, S.E. (2003). **Exploring edge-based input techniques for handheld text entry**. Third International Workshop on Smart Appliances and Wearable Computing (IWSAWC '03). In Proceedings of the IEEE Conference on Distributed Computing Systems Workshops (ICDCSW '03). Providence, Rhode Island (May 19-22, 2003). Washington, D.C.: IEEE Computer Society, pp. 280-282.
- [W.1] Myers, B.A., Nichols, J., Wobbrock, J.O., Litwack, K., Higgins, M., Hughes, J., Harris, T.K., Rosenfeld, R. and Pignol, M. (2003). **Handheld devices for control**. Annual Workshop of the Human-Computer Interaction Consortium (HCIC '03). Winter Park, Colorado (February 5-9, 2003).

Book Chapters

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- [B.6] Franz, R.L., Neves, B.B., Epp, C.D., Baecker, R. and Wobbrock, J.O. (2019). **Why and how think-alouds with older adults fail: Recommendations from a study and expert interviews**. In S. Sayago (ed.), *Perspectives on Human-Computer Interaction Research with Older People*. Switzerland: Springer, pp. 217-235.
- [B.5] Wobbrock, J.O. and Kay, M. (2016). **Nonparametric statistics in human-computer interaction**. Chapter 7 in J. Robertson & M.C. Kaptein (eds.), *Modern Statistical Methods for HCI*. Switzerland: Springer, pp. 135-170.
- [B.4] Wobbrock, J.O. (2014). **Improving pointing in graphical user interfaces for people with motor impairments through ability-based design**. Chapter 8 in G. Kouroupetoglou (ed.), *Assistive Technologies and Computer Access for Motor Disabilities*. Hershey, PA: IGI Global, pp. 206-253.

- [B.3] Hinckley, K., Jacob, R.J.K., Ware, C., Wobbrock, J.O. and Wigdor, D. (2014). **Input/output devices and interaction techniques.** Chapter 21 in T. Gonzalez, J. Diaz-Herrera & A. Tucker (eds.), *Computing Handbook, Third Edition*. Boca Raton, FL: CRC Press, pp. 21-1 – 21-54.
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- [B.1] Wobbrock, J.O. and Myers, B.A. (2007). **Adding gestural text entry to input devices for people with motor impairments.** Chapter 14 in J. Lazar (ed.), *Universal Usability: Designing Computer Interfaces for Diverse User Populations*. Hoboken, NJ: John Wiley & Sons, pp. 421-456.

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- [IP.18] Chilana, P.K., Ko, A.J. and Wobbrock, J.O. (2017). **Systems and methods for selection-based contextual help retrieval.** U.S. Patent #9,811,583. Issued November 7, 2017. Priority date June 17, 2011.
- [IP.17] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Bella, J.A., Devulkar, S.T. and Wallin, M. (2017). **System and methods for creating and authorizing internet content using application media packages.** U.S. Patent #9,723,108. Issued August 1, 2017. Priority date April 26, 1999.
- [IP.16] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2016). **Methods of obtaining application media packages.** U.S. Patent #9,438,467. Issued September 6, 2016. Priority date April 26, 1999.
- [IP.15] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Gabbay, L.D., Malloy, S.J. and Chipkin, A.M. (2016). **Apparatus and method for dynamically coordinating the delivery of computer readable media.** U.S. Patent #9,426,255. Issued August 23, 2016. Priority date April 26, 1999.
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- [IP.13] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Bella, J.A., Devulkar, S.T. and Wallin, M. (2015). **Server including components for accessing and displaying internet content and for providing same to a client.** U.S. Patent #9,124,665. Issued September 1, 2015. Priority date April 26, 1999.
- [IP.12] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2013). **Indexing, sorting, and categorizing application media packages.** U.S. Patent #8,621,034. Issued December 31, 2013. Priority date April 26, 1999.
- [IP.11] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2013). **System and method for accessing and displaying internet content via an integrated application media package.** U.S. Patent #8,521,833. Issued August 27, 2013. Priority date April 26, 1999.
- [IP.10] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2013). **Displaying time-varying internet based data using application media packages.** U.S. Patent #8,510,407. Issued August 13, 2013. Priority date April 26, 1999.
- [IP.9] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2013). **Component for accessing and displaying internet content.** U.S. Patent #8,510,406. Issued August 13, 2013. Priority date April 26, 1999.
- [IP.8] Kembel, J.A., Kembel, G.A., Kim, D., Russell, J., Wobbrock, J., Kembel, G., Kembel, J., Gabbay, L., Medrano, A., Malloy, S., Bella, J., Devulkar, S. and Wallin, M. (2013). **Tracking and tracing user activity with application media packages.** U.S. Patent #8,346,887. Issued January 1, 2013. Priority date April 26, 1999.
- [IP.7] Kembel, J.A., Kembel, G.A., Kim, D., Russell, J., Wobbrock, J., Kembel, G., Kembel, J., Bella, J., Devulkar, S. and Wallin, M. (2011). **System and methods for creating and authorizing internet content using application media packages.** U.S. Patent #8,020,083. Issued September 13, 2011. Priority date April 26, 1999.
- [IP.6] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Gabbay, L.D., Malloy, S.J. and Chipkin, A.M. (2010). **Apparatus and method for dynamically coordinating the delivery of computer readable media.** U.S. Patent #7,792,947. Issued September 7, 2010. Priority date April 26, 1999.
- [IP.5] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Bella, J.A., Devulkar, S.T. and Wallin, M. (2010). **Apparatus and method of hosting internet content.** U.S. Patent #7,756,967. Issued July 13, 2010. Priority date April 26, 1999.
- [IP.4] Wobbrock, J.O. and Myers, B.A. (2010). **Using edges and corners for character input.** U.S. Patent #7,729,542. Issued June 1, 2010. Priority date April 4, 2003.

- [IP.3] Kembel, J.A., Kembel, G.A., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L. and Gabbay, L.D. (2010). **Apparatus and method for interacting with internet content via one or more applications that do not include native web browsing navigation control features.** U.S. Patent #7,660,868. Issued February 9, 2010. Priority date April 26, 1999.
- [IP.2] Dehlin, J.P., Chen, C.S., Wilson, A.D., Robbins, D.C., Horvitz, E.J., Hinckley, K.P. and Wobbrock, J.O. (2009). **Recognizing gestures and using gestures for interacting with software applications.** U.S. Patent #7,519,223. Issued April 14, 2009. Priority date June 28, 2004.
- [IP.1] Kembel, J.A., Kembel, G.A., Medrano, A.P., Kim, D.S., Russell, J., Wobbrock, J., Kembel, G.S., Kembel, J.L., Gabbay, L.D., Malloy, S.J., Bella, J.A., Devulkar, S.T. and Wallin, M. (2008). **Apparatus and method for tracing the distribution of diversely sourced internet content.** U.S. Patent #7,356,569. Issued April 8, 2008. Priority date April 26, 1999.







Selected Popular Press

- [R.6] Wobbrock, J. (2016). **Why every innovation can't be the next iPhone.** Real Clear Technology, April 27, 2016. [Link](#)
- [R.5] Wobbrock, J. (2014). **5 lessons that business leaders could learn from academics.** Entrepreneur Magazine, November 7, 2014. [Link](#)
- [R.4] Wobbrock, J. (2014). **Changing consumer behaviors make self-service growth inevitable.** destinationCRM.com, September 26, 2014. [Link](#)
- [R.3] Wobbrock, J. (2014). **How millennials require us to design the technologies of tomorrow.** WIRED, September 5, 2014. [Link](#)
- [R.2] Wobbrock, J. (2014). **Ivory tower research and startup innovation are two sides of a coin.** Entrepreneur Magazine, July 19, 2014. [Link](#)
- [R.1] Wobbrock, J. (2014). **Power to the people: How to make self-service a priority for your website.** Website Magazine, June 19, 2014. [Link](#)

Technical Reports

- [T.4] Tung, Y.-C., DiVerdi, S., Hertzmann, A. and Wobbrock, J.O. (2018). **Comparing spatial interaction modalities for 2D-widgets in productivity applications in virtual reality.** Technical Report UW-CSE-18-10-01. Seattle, WA: University of Washington, 12 pages.
- [T.3] Kane, S.K., Shinohara, K.S. and Wobbrock, J.O. (2015). **OneView: Enabling collaboration between blind and sighted students.** Computer Science Technical Report 1037. Boulder, CO: University of Colorado Boulder, 6 pages.
- [T.2]  Wobbrock, J.O. (2006). **EdgeWrite: A versatile design for text entry and control.** Technical Report CMU-HCII-06-104. Pittsburgh, PA: Carnegie Mellon University, 310 pages. *School of Computer Science Distinguished Dissertation Award.*
- [T.1]  Wobbrock, J.O. (1998). **The law and policy of autonomous software agents.** Stanford, CA: Stanford University, 172 pages. *Robert M. Golden Medal for Excellence in Humanities and Creative Arts.*

PAPER AWARDS

-  **SIGACCESS ASSETS Paper Impact Award (ASSETS '19)**
Kane, Bigham & Wobbrock: "Slide Rule: Making mobile touch screens accessible to blind people using multi-touch interaction techniques," published at ASSETS 2008. (Awarded every other year to one paper at least 10 years old that has made a lasting impact on computing and information technology addressing the needs of people with disabilities.)
-  **Douglas Engelbart Award for Best Paper, ACM Conference on Hypertext and Social Media (HT '19)**
Wobbrock, Hsu, Burger & Magee: "Isolating the effects of web page visual appearance on the perceived credibility of online news among college students." (Awarded to 1 of 102 submissions.)
-  **Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '16)**
Mott, Vatavu, Kane & Wobbrock: "Smart Touch: Improving touch accuracy for people with motor impairments with template matching." (Awarded to 23 of 2325 submissions.)
-  **Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '15)**
Chilana, Ko & Wobbrock: "From user-centered to adoption-centered design: A case study of an HCI research innovation becoming a product." (Awarded to 21 of 2150 submissions.)
-  **Outstanding Paper Winner, ACM International Conference on Multimodal Interaction (ICMI '12)**
Vatavu, Anthony & Wobbrock: "Gestures as point clouds: A \$P recognizer for user interface prototypes." (Awarded to 3 of 128 submissions.)
-  **Best Paper Winner, ACM Conference on Computers and Accessibility (ASSETS '12)**
Azenkot, Rector, Ladner & Wobbrock: "PassChords: Secure multi-touch authentication for blind people." (Awarded to 1 of 89 submissions.)

- 🏆 Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '11)**
Shinohara & Wobbrock: "In the shadow of misperception: Assistive technology use and social interactions." (Awarded to 15 of 1540 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '11)**
Kane, Wobbrock & Ladner: "Usable gestures for blind people: Understanding preference and performance." (Awarded to 15 of 1540 submissions.)
 - 🏆 Best Paper Winner, IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '10)**
Ko & Wobbrock: "Cleanroom: Edit-time error detection with the uniqueness heuristic." (Awarded to 1 of 78 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '08)**
Kane, Wobbrock & Smith: "Getting off the treadmill: Evaluating walking user interfaces for mobile devices in public spaces." (Awarded to 4 of 200 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '08)**
Wobbrock, Cutrell, Harada & MacKenzie: "An error model for pointing based on Fitts' law." (Awarded to 7 of 710 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '08)**
Gajos, Wobbrock & Weld: "Improving the performance of motor-impaired users with automatically-generated, ability-based interfaces." (Awarded to 7 of 710 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Human Factors in Computing Systems (CHI '06)**
Wobbrock & Myers: "Trackball text entry for people with motor impairments." (Awarded to 3 of 350 submissions.)
 - 🏆 Best Paper Winner, ACM Conference on Computers and Accessibility (ASSETS '04)**
Wobbrock, Myers, Aung & LoPresti: "Text entry from power wheelchairs: EdgeWrite for joysticks and touchpads." (Awarded to 1 of 50 submissions.)
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- 🏆 Best Paper Nominee, ACM Conference on Computers and Accessibility (ASSETS '18)**
Ross, Zhang, Fogarty & Wobbrock: "Examining image-based button labeling for accessibility in Android apps through large-scale analysis." (Awarded to 5 of 108 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '18)**
Vatavu, Anthony & Wobbrock: "\$Q: A super-quick, articulation-invariant stroke-gesture recognizer for low-resource devices." (Awarded to 3 of 213 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '18)**
O'Leary, Schueller, Wobbrock & Pratt: "'Suddenly, we got to become therapists for each other': Designing peer support chats for mental health." (Awarded to 5% of ~2500 submissions.)
 - 🏆 Best Paper Nominee, ACM Conference on Computers and Accessibility (ASSETS '17)**
Ross, Zhang, Fogarty & Wobbrock: "Epidemiology as a framework for large-scale mobile application accessibility assessment." (Awarded to 5% of 126 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '15)**
Vatavu & Wobbrock: "Formalizing agreement analysis for elicitation studies: New measures, significance test, and toolkit." (Awarded to 5% of 2150 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '13)**
Findlater, Froehlich, Fattal, Wobbrock & Dastyar: "Age-related differences in performance with touchscreens compared to traditional mouse input." (Awarded to 5% of 1963 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '12)**
Goel, Findlater & Wobbrock: "WalkType: Using accelerometer data to accommodate situational impairments in mobile touch screen text entry." (Awarded to 5% of 1577 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '12)**
Findlater, Lee & Wobbrock: "Beyond QWERTY: Augmenting touch screen keyboards with multi-touch gestures for non-alphanumeric input." (Awarded to 5% of 1577 submissions.)
 - 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '11)**
Findlater, Wobbrock & Wigdor: "Typing on flat glass: Examining ten-finger expert typing patterns on touch surfaces." (Awarded to 5% of 1540 submissions.)

- 🏆 Honorable Mention Paper, ACM Conference on Human Factors in Computing Systems (CHI '11)**
 Wobbrock, Findlater, Gergle & Higgins: "The Aligned Rank Transform for nonparametric factorial analyses using only ANOVA procedures." (Awarded to 5% of 1540 submissions.)
- 🏆 Best Paper Nominee, ACM Conference on Human Factors in Computing Systems (CHI '09)**
 Wobbrock, Morris & Wilson: "User-defined gestures for surface computing." (Awarded to 5% of 750 submissions.)

OTHER AWARDS

CHI Academy (2019)

Major international award for substantial contributions to the field of human-computer interaction. Inducted at ACM CHI 2019 in Glasgow, Scotland on May 5, 2019. [Link](#)

ACM Senior Member (2019)

Admitted as a Senior Member of the Association of Computing Machinery in March 2019. Admissions require peer nominations and admission by a selection committee. [Link](#)

AMiner Most Influential Scholar in Human-Computer Interaction (2019)

Ranked #1 of top 100 scholars in HCI for 2018, conferred in 2019. According to AMiner: "The list is conferred in recognition of outstanding technical achievements with lasting contribution and impact to the research community. In 2018, the winners are among the most-cited scholars whose papers were published in the top venues of their respective subject fields between 2007 and 2017. Recipients are automatically determined by a computer algorithm deployed in the AMiner system that tracks and ranks scholars based on citation counts collected by top-venue publications." [Link](#)

PROF Award Nominee (2017)

University of Washington Information School Pedagogical Recognition for Our Faculty (PROF) teaching award nominee.

SIGCHI Social Impact Award (2017)

Major international award for human-computer interaction research applied to pressing social needs. Awarded at ACM CHI 2017 in Denver, Colorado on May 7, 2017. [Link](#)

AnswerDash Case by Harvard Business School and the University of Washington Foster School of Business (2016)

AnswerDash was written up and published as a case study by Harvard Business School professor Elie Ofek and University of Washington Foster School of Business professor Jeffrey D. Shulman. Case #9-516-106. June 13, 2016.

Gartner Cool Vendor Award for CRM Customer Service and Support (2015)

Awarded to AnswerDash based on my demos to analysts as Co-founder / CEO for being an "innovative vendor with applications to deliver a superior customer service experience and/or reduce operational costs."

University of Washington Presidential Entrepreneurial Faculty Fellow (2014-2016)

For "success initiating groundbreaking programs for translation, collaborating with industry, or in translating research into products or therapies." Award included \$10,000 over two years.

Kynamatrix Research Network "Innovation through Collaboration" Award (2014)

For research entitled, "Human-centered approach optimizing the lower limits of intelligible mobile sign language video communication," by Jessica Tran with advisors Eve Riskin, Richard Ladner and Jacob Wobbrock. Award included \$1,000.

Honorable Mention, NISH National Scholar Award for Workplace Innovation and Design (2009)

For essay entitled, "Fully accessible touch screens for the blind and visually impaired," by Shaun K. Kane co-authored with Jeffrey P. Bigham and Jacob O. Wobbrock.

2nd Place, NISH National Scholar Award for Workplace Innovation and Design (2008)

For essay entitled, "Hands-free voice-driven drawing and diagram creation method for people with motor impairments," by Susumu Harada co-authored with Jacob O. Wobbrock and James A. Landay. Award included \$10,000 and an invitation for Mr. Harada to attend the NISH Grassroots Advocacy Training Conference, June 10-13 in Washington, D.C.

School of Computer Science Distinguished Dissertation Award, Carnegie Mellon University (2006-2007)

For dissertation entitled, "EdgeWrite: A versatile design for text entry and control," by Jacob O. Wobbrock. Award included \$500 and an invited Distinguished Lecture at the School of Computer Science, Carnegie Mellon University. Was 1 of 2 winners.

1st Place, NISH National Scholar Award for Workplace Innovation and Design (2005)

For essay entitled, "Accessible handheld and desktop text entry for people with motor impairments," by Jacob O. Wobbrock co-authored with Brad A. Myers. Award included \$20,000 and an invitation to attend the NISH National Training and Achievement Conference, May 22-24 in New Orleans, LA.

National Science Foundation IGERT Fellow (2004)

For research in Assistive Technology, Carnegie Mellon University.

Robert M. Golden Medal for Excellence in Humanities and Creative Arts (1998)

For undergraduate honors thesis entitled, "The law and policy of autonomous software agents," by Jacob O. Wobbrock. Award included \$200, Stanford University.

FUNDING**Federal Research Grants**

- NSF Fogarty, J., Wobbrock, J.O., Caspi, A. and Ladner, R.E. (2017-2021). "CHS-MEDIUM: Improving the accessibility of mobile applications by enabling third-party assessment, repair, and enhancement." National Science Foundation [IIS-1702751]: \$1,198,547. [Link](#)
- NSF Ladner, R.E., Ko, A.J., Wobbrock, J.O. and Burgstahler, S. (2015-2020). "BPC-AE: AccessComputing – Third extension." National Science Foundation [CNS-1539179]: \$4,257,252. [Link](#)
- NSF Wobbrock, J.O. and Patel, S.N. (2012-2016). "HCC-SMALL: Understanding, sensing, and accommodating situational impairments in mobile computing." National Science Foundation [IIS-1217627]: \$499,722. [Link](#)
- NSF Wobbrock, J.O. and Shinohara, K. (2012-2013). "DOCTORAL DISSERTATION RESEARCH: Developing Design for Social Acceptance: A new methodology incorporating social acceptability in the design of assistive devices." National Science Foundation [SES-1230435]: \$15,000. [Link](#)
- NSF Wobbrock, J.O. (2010-2016). "CAREER: Advancing accessible computing with tools for Ability-Based Design." National Science Foundation [IIS-0952786]: \$509,359. [Link](#)
- NSF Levy, D.M. and Wobbrock, J.O. (2009-2010). "EAGER: An empirical exploration of contemplative multitasking." National Science Foundation [IIS-0942646]: \$143,872. [Link](#)
- NSF Wobbrock, J.O., Johnson, K.L. and Weld, D.S. (2008-2012). "HCC-SMALL: The end of pointing and clicking: Improving computer access with goal crossing." National Science Foundation [IIS-0811063]: \$464,905. [Link](#)
- NSF Riskin, E.A., Wobbrock, J.O. and Ladner, R.E. (2008-2012). "HCC-SMALL: MobileASL: Providing mobile video communications to the Deaf community through user-centered design and deployment." National Science Foundation [IIS-0811884]: \$530,785. [Link](#)

Industry Research Gifts

- MANI Wobbrock, J.O. (2018). Support for the Mobile + Accessible Design Lab. Mani Charitable Foundation and Microsoft: \$10,000.
- MSR Wobbrock, J.O. (2017-2019). Support for Crowdlicit project. Microsoft Research: \$18,000.
- ADOBE Wobbrock, J.O. (2017). Support for the Mobile + Accessible Design Lab. Adobe Systems: \$10,000.
- MANI Wobbrock, J.O. (2017). Support for the Mobile + Accessible Design Lab. Mani Charitable Foundation: \$26,000.
- BAIDU Wobbrock, J.O. (2017). Support for the Mobile + Accessible Design Lab. Baidu: \$60,000.
- MSFT Wobbrock, J.O. (2014). Donation of a Perceptive Pixel display for studying touch-based human-computer interaction. Microsoft: valued at \$10,000.
- GOOGLE Wobbrock, J.O. (2014-2015). "Smart Touch: Improving the accessibility of touch screens on Android tablets and smartphones for people with motor impairments." Google Research Award: \$41,107. ^[162]
- MSR Wobbrock, J.O. (2012). Support for research and collaboration. Microsoft Research: \$15,000.
- GOOGLE Wobbrock, J.O. and Huang, J. (2011-2012). "Cursor mining in web search." Google Research Award: \$50,000.
- MSR Wobbrock, J.O. (2010-2012). Support for the AIM Research Group. Microsoft Research: \$50,000.
- INTEL Wobbrock, J.O. (2010). Support for new mobile interfaces for nomadic usability and accessibility. Intel: \$25,000.
- MSFT Wobbrock, J.O. (2009). Donation of a Microsoft Surface interactive tabletop and associated software for studying typing on touch surfaces. Microsoft: valued at \$15,000.
- INTEL Wobbrock, J.O. (2008). Support for software development for HCI research. Intel: \$30,000.
- MSR Wobbrock, J.O. (2008-2010). Support for the AIM Research Group. Microsoft Research: \$50,000.
- NISH Harada, S., Wobbrock, J.O. and Landay, J.A. (2008). Second-place award for VoiceDraw project. NISH: \$5,000.
- WRF Wobbrock, J.O. (2007). Support for development of iPhone/iPod EdgeWrite. Washington Research Foundation: \$20,000.
- INTEL Wobbrock, J.O. (2006). Support for research on new input and interaction techniques, assistive technologies, mobile computing interfaces, and other areas of HCI. Intel Labs Seattle: \$25,000.

University Research Funding

uw CIP	Wobbrock, J.O. (2020). "Quick impressions of news article credibility." University of Washington Center for an Informed Public: \$3500.
isCHOOL	Wobbrock, J.O. (2016). "Furthering Ability-Based Design: Simulating motor-impaired mouse movement for evaluating the accessibility of user interfaces." University of Washington Information School: \$10,000.
uw	Wobbrock, J.O. (2014). Presidential Entrepreneurial Faculty Fellow. University of Washington: \$10,000.
uw RRF	Landay, J.A. and Wobbrock, J.O. (2008-2009). "Beyond speech recognition: Harnessing the power of voice for effective control of computer interfaces." University of Washington Royalty Research Fund: \$38,000.

Commercialization Financing

vc	Colleran, W.T. and Wobbrock, J.O. (2015). Second-round venture capital financing for AnswerDash. Voyager Capital, Summit Capital, Arnold Ventures, WRF Capital, W Fund, and one angel investor: \$2,875,000.
svb	Wobbrock, J.O. (2014). First-round venture debt financing for AnswerDash. Silicon Valley Bank: \$1,000,000.
vc	Wobbrock, J.O. and Ko, A.J. (2013). First-round venture capital financing for AnswerDash (formerly Qazzow). WRF Capital, Voyager Capital, W Fund, Summit Capital, Arnold Ventures, and five angel investors: \$2,540,000.
w FUND	Wobbrock, J.O. and Ko, A.J. (2013). Seed financing for AnswerDash (formerly Qazzow). W Fund: \$500,000.
uw c4c	Wobbrock, J.O., Ko, A.J. and Chilana, P.K. (2011). "Chime: Bringing crowdsourced contextual help to the masses." Commercialization Gap Fund. University of Washington Center for Commercialization: \$50,000.

ORIGINAL PRESS

Academic Press Coverage

1. Staff. "Faculty/staff honors: Housing association nod, honorary doctorate, distinguished fellow, best conference paper." University of Washington News, December 2, 2019.
2. Staff. "Allen School accessibility researchers past and present shine at ASSETS 2019." UW Allen School News, November 6, 2019.
3. Rochelle Bowyer. "iSchool ACE Lab challenges the lack of accessibility in technology." The Daily of the University of Washington, October 28, 2019.
4. Doug Parry. "iSchool's Wobbrock honored for accessibility work on mobile touch screens." UW Information School News, September 30, 2019.
5. Doug Parry. "iSchool, UW make another strong showing at CHI." UW Information School News, April 26, 2019.
6. Doug Parry. "Friedman, Wobbrock among 3 UW faculty to earn top honor in HCI." UW Information School News, February 13, 2019.
7. Staff. "UW's Jennifer Mankoff, Batya Friedman and Jacob Wobbrock elected to CHI Academy." UW Allen School News, February 13, 2019.
8. Rebekah Denn. "In the era of spellcheck and auto-correct, does it matter that my son can't spell?" The Washington Post, January 29, 2019.
9. Staff. "MSIM student digs into research on small icons, big data." UW Information School News, December 7, 2017.
10. Herb Weisbaum. "UW student hopes to make touch screen technology accessible to more people." KOMO Midday News, September 25, 2017.
11. Andrew Leibs. "Free Windows software to make PC more accessible." ThoughtCo.com, July 31, 2017.
12. Staff. "New leader takes helm of popular Informatics program." UW Information School News, July 27, 2017.
13. Arunabh Satpathy. "Why the United Airlines debacle was just bad service design." Medium.com, May 4, 2017.
14. Staff. "HCI alumna Jacob Wobbrock to receive the SIGCHI Social Impact Award at CHI 2017." Human-Computer Interaction Institute News & Events, Carnegie Mellon University, May 2, 2017.
15. Staff. "Slide to unlock." Interactive Feature for the University of Washington Be Boundless Campaign, April 3, 2017.
16. Tamanna Mishra. "Multitasking is certainly possible, but only if done right." YourStory, March 1, 2017.
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25. Jasmine Solana. "Quick pro quo: Software writes text 3x faster than any human can." Futurism, August 25, 2016.
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28. Eric David. "Voice recognition now faster and more accurate than typing, says Stanford study." SiliconANGLE, August 24, 2016.
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32. Bjorn Carey. "Smartphone speech recognition can write text messages three times faster than human typing." Stanford News, August 24, 2016.
33. Michele Debczak. "8 ways to refresh during your lunch break." Mental Floss, June 21, 2016.
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40. Erin Van Bronkhorst. "UW names 5 profs to be key mentors for health care enterprise." Puget Sound Business Journal, July 2, 2014.
41. Staff. "Wobbrock and Ko appointed 2014 Presidential Entrepreneurial Faculty Fellows." UW Information School News, June 30, 2014.
42. Clare LaFond. "UW appoints 2014 Presidential Entrepreneurial Faculty Fellows." UW Center for Commercialization News, June 30, 2014.
43. Staff. "David McDonald to chair HCDE; new HCI faculty bring data visualization and design expertise." UW Information School News, June 20, 2014.
44. Staff. "Jacob Wobbrock receives Google Faculty Research Award." UW Information School News, March 3, 2014.
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46. Nic Halverson. "Gesture reader lets blind decipher documents." Discovery News, May 1, 2013.
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48. Amy Busch. "Meditations on the Information Age." The Daily of the University of Washington, April 30, 2013.
49. Douglas Eby. "Creative thinking and popular psychology books." Psych Central, December 19, 2012.
50. Linda Melone. "12 gifts of good health." The Costco Connection 27 (12), December 2012, p. 65.
51. Maria Konnikova. "The power of concentration." The New York Times, December 15, 2012, p. SR8.
52. Will Knight. "What comes after the touch screen?" M.I.T. Technology Review, October 11, 2012.
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55. UW TV. "iOn the future." August 10, 2012.
56. Anita Bruzzese. "Meditation can keep you more focused at work, study says." USA Today, Money section, July 8, 2012.
57. Mónica Guzmán. "No app for applying ourselves mindfully: Drowning in tech distractions? Meditation can help." The Seattle Times, Local News section, June 16, 2012.
58. Molly Brown. "New research: Meditation makes you a better geek." GeekWire, June 13, 2012.
59. Peter Kelley. "Mindful multitasking: Meditation first can calm stress, aid concentration." University of Washington News, June 13, 2012.
60. Jim Giles. "Touchscreens learn your habits to help you type faster." New Scientist, May 30, 2012.
61. Staff. "UW President Michael Young attends dub retreat." UW CSE News, April 27, 2012.
62. Joon Yi. "Two UW students named Facebook Fellows." The Daily of the University of Washington, February 22, 2012.
63. Todd Bishop. "Better typing while walking, and other cool stuff from UW." GeekWire, October 20, 2011.
64. Eric Smalley. "Portico takes tablets off-screen." C|NET News, October 12, 2011.
65. Duncan Graham-Rowe. "Taking touch beyond the touch screen." M.I.T. Technology Review, September 23, 2011.
66. June Simms. "A better computer mouse cursor for the disabled." Voice of America, Science and Technology section, April 17, 2011.
67. Mark Gibbs. "Improved mouse control for users with disabilities." PC World, Business Center section, April 16, 2011.
68. Mark Huffman. "Free software makes using a mouse easier: Designed for people with motor disabilities." ConsumerAffairs.com, April 13, 2011.
69. Roblimo. "Free software helps disabled use mouse." Slashdot.com, Hardware section, April 10, 2011.
70. Darren Quick. "Researchers tackle mouse control from a different angle." New Atlas, April 10, 2011.
71. Catherine O'Donnell. "Free software makes computer mouse easier for people with disabilities." University of Washington News, April 7, 2011.
72. Staff. "UW, iSchool dominate CHI awards." UW Information School News, April 5, 2011.
73. Staff. "Record year for iSchool, dub at CHI 2011." UW Information School News, February 17, 2011.
74. Staff. "Shaun Kane: Success by design." UW Information School News, November 8, 2010.
75. Staff. "Drs. Ko, Wobbrock earn best paper at VL/HCC." UW Information School News, September 24, 2010.
76. Hannah Hickey. "Deaf, hard-of-hearing students do first test of sign language by cell phone." University of Washington News, August 19, 2010. Story picked up by KING 5 and KCPQ 13 local television news.
77. Jean Patterson. "Junior faculty blaze path forward for iSchool." UW Information School News, July 16, 2010.
78. Justin Rattner. Research@Intel Day 2010 keynote with Intel CTO Justin Rattner, June 30, 2010.
79. CmdrTaco. "Demo of laptop/tabletop hybrid UI." Slashdot.com, Hardware section, April 14, 2010.
80. KING 5 News. "UW student named Facebook Fellow." KING5.com, Local News section, April 14, 2010.
81. Larry Larsen. "Using your voice to paint." Channel 9 from MSDN. April 1, 2010.
82. Nick Eaton. "Tabletop UI, wireless power and more from Intel Labs Seattle." Seattle Post-Intelligencer Blogs. September 30, 2009.
83. Staff. "Tuning technology to special needs." UW Information School News, May 28, 2009.

84. Larry Greenemeier. "Microsoft tries to get a grip on touch computing with Surface." Scientific American, 60-Second Science Blog, April 11, 2009.
85. Ina Fried. "Microsoft puts finger on better gestures." C|NET News, April 6, 2009.
86. Ivanhoe Newswire. "Pimp my program: Help for the disabled." Television news release, March 2009.
87. Richard Seven. "Researchers work on developing sign language for cellphones." The Seattle Times, Health section, December 2, 2008.
88. Richard Seven. "UW creates a computer mouse driven by sound." The Seattle Times, Business/Technology section, October 6, 2008.
89. Robert P. Bennett. "Squaring off with EdgeWrite." Disaboom, Tech & Tools section, September 23, 2008.
90. Lee Bruno. "An interface for your eyes only." The Guardian (U.K.), August 27, 2008.
91. Hannah Hickey. "Signing by cell: Can you see me now?" University of Washington News, August 21, 2008.
92. Hannah Hickey. "For your eyes only: Custom interfaces make computer clicking faster, easier." University of Washington News, July 15, 2008.
93. Staff. "The Dobbs Challenge contest winners announced." Gamasutra.com, June 19, 2008. Mr. Spiff's Revenge by POW Studios, which heavily utilizes my \$1 gesture recognizer, wins Best Windows Game.
94. Lynne Harris. "NISH recognizes college engineers for inventions designed to help people with disabilities in the workplace." National press release, June 11, 2008.
95. Staff. "iSchool garners three Best Paper Awards at CHI 2008." UW Information School News, April 3, 2008.
96. Virginia Gold. "SIGCHI announces Best of CHI 2008 award winners." ACM News Release, April 3, 2008.
97. Staff. "Dominating DUB." Etc: Campus News & Notes. University Week 25 (18), February 28, 2008, p. 3.
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100. Holly Witteman. "Perspectives on CHI 2006." SIGCHI Bulletin 38 (3), July 2006.
101. Ivanhoe Broadcast News. "Hi-tech typing." Television news release, October 2005.
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106. Staff. "Science honors." Pittsburgh Post-Gazette, Science & Environment section, Monday, July 4, 2005, p. A-6.
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2. Sam Sawchuk. "Meet Jacob O. Wobbrock | An entrepreneur focused on interactive solutions that improve the user and customer experience." The Huffington Post, December 6, 2016.
3. Dom Nicastro. "What's in a name: PlaceIQ, AnswerDash, Redbooth." CMSWire, October 22, 2015.
4. Rachel Lerman. "Tech Spotlight: AnswerDash solves your confusion when using websites." The Seattle Times, September 20, 2015.
5. Taylor Soper. "UW spinout AnswerDash raises \$2.9M to support growth of online contextual help platform." GeekWire, September 14, 2015.
6. Michael Guta. "AnswerDash earns 'Cool Vendor' status from Gartner." TMCnet, Call Center Services Featured Article, July 20, 2015.
7. Kristina Knight. "Ad Roundup: Platforms to protect data, give answers." BizReport, July 9, 2015.
8. AnswerDash. "Gartner names AnswerDash a 'Cool Vendor' in CRM Customer Service and Support, 2015." Marketwired, July 9, 2015.
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18. Olive Huang, Jenny Sussin, Steve Blood, Brian Manusama, Jim Davies, Michael Maoz, Drew Kraus. "Cool Vendors in CRM customer service and support, 2015." Gartner, April 9, 2015.
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45. Taylor Soper. "UW spinout AnswerDash launches, names ex-Drugstore.com CEO Dawn Lepore to board." GeekWire, May 20, 2014.
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49. Taylor Soper. "Husky Pride: Check out these 5 startups founded by University of Washington grads, professors." GeekWire, April 16, 2014.
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51. John Cook. "Startup Hall: University of Washington looks to transform old law school into magnet for startups." GeekWire, December 17, 2013.
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TEACHING

Coursera.org

Creator / Instructor	MOOC	Designing, Running, and Analyzing Experiments	>19,000 learners since Feb. 2016
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University of Washington

Creator / Instructor	INSC 599	Practical Statistics for HCI (Independent Study)	50+ students since Nov. 2010
Creator / Instructor	IMT 565	Designing Information Experiences	Spr. 2016-2019

Creator / Instructor	INFO 463	Input and Interaction	Spr. 2008-2009, 2012, 2016
Instructor	INSC 570	Research Design	Aut. 2006-2009, 2015
Instructor	INSC 571	Quantitative Methods in Information Science	Win. 2018-2019
Instructor	CSE 590W	Research Seminar: Accessibility	Spr. 2012
Instructor	IMT 540	Design Methods for Interactive Systems	Aut. 2007-2009
Instructor	INFO 470	Research Methods in Informatics	Aut. 2010-2011, 2016
Instructor	INFO 444	Value Sensitive Design	Spr. 2007

Carnegie Mellon University

Creator	HCI 291	HCI for Computer Scientists	Spr. 2004
TA	HCI 413	Human Factors	Aut. 2004

Stanford University

TA	CS 247B	Human-Computer Interaction: Contextual & Organizational Issues	Spr. 1999
TA	CS 201	Computers, Ethics & Social Responsibility	Win. 1999
TA	CS 147	Introduction to Human-Computer Interaction Design	Aut. 1998-1999
Section Leader	CS 106X	Programming Methodology and Abstractions	Spr. 1999
Section Leader	CS 106A	Programming Methodology	Aut. 1997

INDUSTRY POSITIONS

Industry Positions

1. Co-founder & Board Observer, AnswerDash – Seattle, WA (Feb. 2018 – present)
2. Co-founder & Chief Experience Officer, AnswerDash – Seattle, WA (Dec. 2015 – Feb. 2018)
3. Co-founder & Chief Scientist, AnswerDash – Seattle, WA (May – Dec. 2015)
4. Co-founder, President & CEO, AnswerDash – Seattle, WA (Sept. 2012 – May 2015)
5. Research Intern, Microsoft Research – Redmond, WA (May – Aug. 2003)
6. User Interface Contractor, Google – Mountain View, CA (Feb. – May 2001)
7. Senior User Interface Design-Engineer, DoDots – Sunnyvale, CA (June 2000 – Feb. 2001)
8. User Interface Design-Engineer, DoDots – Mountain View, CA (Oct. 1999 – June 2000)
9. Technical Intern, Intel-Mattel Smart Toy Lab – Portland, OR (June – Sept. 1999)
10. Technical Intern, Intel – Hillsboro, OR (June – Sept. 1997)

Technology Consulting

1. Technical Consultant, Natural Input Solutions – Toronto, ON (Oct. 2008 – Oct. 2009)
2. Research Consultant, Microsoft Research – Redmond, WA (Jan. – Oct. 2008)
3. Usability Consultant, Ingrian Networks – Redwood City, CA (May – Sept. 2002)

Expert Witness

1. *Apple v. Qualcomm*[†] [U.S. #8,683,362]: Baker Botts (Nov. 2018 – June 2019)*
2. *Apple v. Qualcomm*[†] [U.S. #8,665,239]: Baker Botts (Oct. 2018 – Aug. 2019)*
3. *Qualcomm*[†] v. *Apple* [U.S. #8,497,928]: Quinn Emanuel (Apr. 2018)
4. *HTC v. Philips* [U.S. #RE44,006]: Perkins Coie (Dec. 2016 – Apr. 2018)*
5. *Google*[†] v. *BlackBerry* [U.S. #8,411,845]: Mayer Brown (Nov. 2016 – Jan. 2017)*
6. *Advanced Touchscreen & Gesture Technologies*[†] v. *Samsung* [U.S. #8,717,303, U.S. #8,878,810]: Robins Kaplan (Apr. 2015 – Dec. 2016)*
7. *BlackBerry v. Typo Products*[†] [U.S. #7,629,964, U.S. #D685,775]: The Taillieu Law Firm (Jan. – Feb. 2014)
8. *HTC v. Apple* [U.S. #6,473,006, U.S. #7,020,849]: Finnegan Henderson (Dec. 2011 – July 2012)
9. *Apple v. HTC*[†] [U.S. #5,946,647]: Kecker Van Nest (Sept. 2011 – Jan. 2012)
10. *HTC v. Apple* [U.S. #5,541,988]: Finnegan Henderson and Kecker Van Nest (June 2010 – June 2011)
11. *F&G Research v. Microsoft*[†] [U.S. #5,313,229]: K&L Gates (Oct. – Nov. 2007)

[†]Retained by

**Inter partes* review (IPR)

PRESENTATIONS

Invited Research Talks

1. “Situationally aware mobile devices for overcoming situational impairments.” (2019). Opening keynote address, ACM Symposium on Engineering Interactive Computing Systems. Valencia, Spain.
2. “Recognizing and designing gestures for user interfaces.” (2019). Invited presentation, 05-640: Interaction Techniques, Carnegie Mellon University. Pittsburgh, PA.

3. "Addressing situationally-induced impairments and disabilities in mobile HCI." (2019). Invited lecture, Seminar on People, Computers and Design, Stanford University. Stanford, CA.
4. "Ability-Based Design: Designing for all people's abilities and situations." (2018). Distinguished lecture, Technology and Social Behavior Program, Northwestern University. Evanston, IL.
5. "Ability-Based Design: Elevating ability over disability in accessible computing." (2017). SIGCHI Social Impact Award talk, ACM Conference on Human Factors in Computing Systems. Denver, CO.
6. "Ability-Based Design: Elevating ability over disability in accessible computing." (2017). Invited lecture, Michigan Interactive and Social Computing Seminar, University of Michigan. Ann Arbor, MI.
7. "Ability-Based Design: Elevating ability over disability in accessible computing." (2017). Invited lecture, Luxembourg Institute of Science and Technology. Belval / Esch-sur-Alzette, Luxembourg.
8. "Input for people with motor impairments." (2016). Invited talk, UW CSE MSR Summer Institute on Expanding Accessibility Research. Alderbrook Resort, Union, WA.
9. "From plastic to pixels: In pursuit of effective touch-typing on touch screens." (2012). Research presentation, Microsoft Research. Redmond, WA.
10. "Back to basics: Making pointing accessible." (2011). Invited lecture, Seminar on People, Computers and Design, Stanford University. Stanford, CA.
11. "Flipping the burden: Making computers accessible with everyday input devices." (2008). Distinguished lecture, School of Computer Science, Carnegie Mellon University. Pittsburgh, PA.
12. "Flipping the burden: Towards ability-based design." (2008). Invited speaker, HCI Seminar, Computer Science Department, University of Illinois—Urbana-Champaign. Champaign, IL.
13. "Accessible handheld and desktop text entry for people with motor impairments." (2005). Award presentation, NISH National Training and Achievement Conference. New Orleans, LA.
14. "Imagine EdgeWrite." (2005). Invited demonstration, Microsoft Research Tech Fair, Library of Congress. Washington, D.C.

Presentations to Industry, Non-Profits or Government

1. Wobbrock, J.O. (2019). Podcast interview with Ideagen Global about technology and disability. August 23, 2019. Duration: 36 min.
2. "Ability-Based Design." (2019). Invited presentation at Microsoft's Annual Ideagen Global Innovation 2030 Summit, followed by a panel discussion on accessible technology. Redmond, WA.
3. "The Mobile and Accessible Design Lab." (2018). Presentation to the Sr. Director of University Research and Collaboration, Intel Corporation. Seattle, WA.
4. "Radical Personalization: Walk the line or be left behind?" (2018). Invited presentation / panelist, iAffiliates Day, University of Washington Information School. Seattle, WA.
5. "Ability-Based Design: Making technologies match all people's abilities and context." (2018). Invited speaker, Puget Sound SIGCHI. Seattle, WA.
6. "Research projects from the Mobile + Accessible Design Lab." (2017). Presentation to the Chief Accessibility Officer of Microsoft Corporation and the Chief Scientist of Microsoft Research. Redmond, WA.
7. "Research projects from the Mobile + Accessible Design Lab." (2017). Presentation to the Director of Inclusive Hiring and Accessibility, Microsoft Corporation. Redmond, WA.
8. "The five F's for successful university startups." (2015). Invited panelist, visit to New Ventures Facility by Washington State representatives and senators. Seattle, WA.
9. "How to get website self-service right." (2015). Invited speaker, WritersUA West User Assistance Boot Camp. Seattle, WA.
10. "How millennials are shaping the future of customer service." (2015). Invited speaker, Support and Service Management Consortium. Seattle, WA.
11. "AnswerDash." (2014). Invited speaker, Western Regional State Small Business Credit Initiative Meeting. Seattle, WA.
12. "How technology research compares to doing a tech startup." (2014). Invited panelist, Human-Computer Interaction Institute 20th Anniversary Celebration, Carnegie Mellon University. Pittsburgh, PA.
13. "Research outside academia." (2014). Invited panelist, DUB Annual Retreat. Seattle, WA.
14. "Bootstrapped-to-public: The entrepreneurial path." (2014). Invited panelist, UW Foster School of Business and Stanford Graduate School of Business. Seattle, WA.
15. "AnswerDash." (2014). Presenter, UW Center for Commercialization New Ventures Facility Media Event. Seattle, WA.
16. "AnswerDash." (2014). Invited speaker, Seattle Tech Meetup. Seattle, WA.
17. "AnswerDash." (2014). Keynote speaker, UW Information School iAffiliates Day. Seattle, WA.
18. "Qazzow." (2013). Invited speaker, UW Information School All-Board Meeting. Seattle, WA.
19. "Qazzow: Sales, savings, and insights for e-commerce." (2013). Presenter, University Research and Entrepreneurship Symposium (URES '13). Boston, MA.
20. "Qazzow: Sales. Savings. Insights." (2013). Presenter, Technology Alliance Winter 2013 Innovation Showcase. Seattle, WA.
21. "Understanding gestures in user interfaces." (2010). Invited speaker, WritersUA Conference on Software User Assistance. Seattle, WA.
22. "Making computers accessible with everyday input devices." (2009). Invited speaker, WritersUA Conference on Software User Assistance. Seattle, WA.
23. "Flipping the burden: Making computers accessible with everyday input devices." (2008). Keynote speaker, InfoCamp. Seattle, WA.

Conference Paper Presentations

1. "Isolating the effects of web page visual appearance on the perceived credibility of online news among college students." (2019). ACM Conference on Hypertext and Social Media. Hof, Germany.
2. "TapSongs: Tapping rhythm-based passwords on a single binary sensor." (2009). ACM Symposium on User Interface Software and Technology. Victoria, British Columbia.
3. "The Angle Mouse: Target-agnostic dynamic gain adjustment based on angular deviation." (2009). ACM Conference on Human Factors in Computing Systems. Boston, MA.
4. "User-defined gestures for surface computing." (2009). ACM Conference on Human Factors in Computing Systems. Boston, MA.
5. "An error model for pointing based on Fitts' law." (2008). ACM Conference on Human Factors in Computing Systems. Florence, Italy.
6. "A comparison of area pointing and goal crossing for people with and without motor impairments." (2007). ACM Conference on Computers and Accessibility. Tempe, AZ.
7. "Gestures without libraries, toolkits or training: A $\$1$ recognizer for user interface prototypes." (2007). ACM Symposium on User Interface Software and Technology. Newport, RI.
8. "An alternative to push, press, and tap-tap-tap: Gesturing on an isometric joystick for mobile phone text entry." (2007). ACM Conference on Human Factors in Computing Systems. San Jose, CA.
9. "From letters to words: Efficient stroke-based word completion for trackball text entry." (2006). ACM Conference on Computers and Accessibility. Portland, OR.
10. "In-stroke word completion." (2006). ACM Symposium on User Interface Software and Technology. Montreux, Switzerland.
11. "Few-key text entry revisited: Mnemonic gestures on four keys." (2006). ACM Conference on Human Factors in Computing Systems. Montreal, Quebec.
12. "Trackball text entry for people with motor impairments." (2006). ACM Conference on Human Factors in Computing Systems. Montreal, Quebec.
13. "Maximizing the guessability of symbolic input." (2005). ACM Conference on Human Factors in Computing Systems. Portland, OR.
14. "Text entry from power wheelchairs: EdgeWrite for joysticks and touchpads." (2004). ACM Conference on Computers and Accessibility. Atlanta, GA.
15. "Writing with a joystick: A comparison of date stamp, selection keyboard and EdgeWrite." (2004). Graphics Interface. London, Ontario.
16. "EdgeWrite: A stylus-based text entry method designed for high accuracy and stability of motion." (2003). ACM Symposium on User Interface Software and Technology. Vancouver, British Columbia.
17. "Exploring edge-based input techniques for handheld text entry." (2003). IEEE Conference on Distributed Computing Systems Workshops. Providence, RI.
18. "WebThumb: Interaction techniques for small-screen browsers." (2002). ACM Symposium on User Interface Software and Technology. Paris, France.
19. "Put your best face forward: Anthropomorphic agents, e-commerce consumers, and the law." (2000). ACM Conference on Autonomous Agents. Barcelona, Spain.
20. "Liability for autonomous agent design." (1998). ACM Conference on Autonomous Agents. Minneapolis, MN.

Internal Research Talks

1. "Lasting impact: A panel with 3 recent iSchool award winners." (2019). Research Symposium, University of Washington Information School.
2. "Ability-Based Design: Elevating ability over disability in accessible computing." (2017). DUB Seminar, University of Washington.
3. "Ability-Based Design: Elevating ability over disability in accessible computing." (2017). Research Symposium, University of Washington Information School.
4. "From plastic to pixels: In pursuit of effective touch-typing on touch screens." (2012). DUB Seminar, University of Washington.
5. "Back to basics: Making pointing accessible." (2011). DUB Seminar, University of Washington.
6. "Accessing the world: Projects by the iSchool's AIM Research Group." (2009). Board of Regents Meeting, University of Washington.
7. "Overview of the AIM Research Group." (2009). All-Board Meeting, University of Washington Information School.
8. "Making computers accessible with everyday input devices." (2009). Research Conversation, University of Washington Information School.
9. "User-defined vs. researcher-defined gestures." (2009). DUB Seminar, University of Washington.
10. "An error model for pointing based on Fitts' law." (2008). DUB Seminar, University of Washington.
11. "Achieving fundamental improvements in computer access." (2008). Design Machine Group, University of Washington Architecture Department.
12. "Movement, input and errors." (2007). DUB Seminar, University of Washington.
13. "Improving the accessibility of mobile devices for motor and situational impairments." (2007). Invited Speaker, iEdge Conference, University of Washington ASIS&T Chapter.
14. "EdgeWrite text entry and mobile accessibility." (2006). Founders' Board Meeting, University of Washington Information School.

RESEARCH ADVISING

Ph.D. Advisees

1. Mingyuan "Jason" Zhong, Co-advisor with James A. Fogarty, Ph.D. in Computer Science, 2019 – present.
2. Anastasia Schaadhardt, Advisor, Ph.D. in Information Science, 2019 – present.

3. Lisa Elkin, Advisor, Ph.D. in Computer Science, 2018 – present.
4. Ather Sharif, Co-advisor with Katharina Reinecke, Ph.D. in Computer Science, 2018 – present.
5. Mingrui “Ray” Zhang, Advisor, Ph.D. in Information Science, 2017 – present.
6. Rachel Franz, Advisor, Co-advisor with Leah Findlater, Ph.D. in Information Science, 2017 – present.
7. Anne Spencer Ross, Co-advisor with James A. Fogarty, Ph.D. in Computer Science, 2017 – present.
8. Abdullah Ali, Advisor, Ph.D. in Information Science, 2016 – present.
9. Alex Mariakakis, Co-advisor with Shwetak N. Patel, Ph.D. in Computer Science, 2015-2019. *First position as postdoctoral researcher at the University of Washington and Sage Bionetworks.*
10. Martez Mott, Advisor, Ph.D. in Information Science, 2012-2018. *First position as postdoctoral researcher at Microsoft Research.*
11. Katie O’Leary, Co-advisor with Wanda Pratt, Ph.D. in Information Science, 2012-2017. *First position at Google.*
12. Jessica J. Tran, Co-advisor with Eve Riskin and Richard E. Ladner, Ph.D. in Electrical Engineering, 2011-2014. *First position at Thomson Reuters.*
13. Jeff Huang, Co-advisor with Susan Dumais, Ph.D. in Information Science, 2011-2013. *First position as assistant professor at Brown University.*
14. Abigail Evans, Co-advisor with Katie Davis, Ph.D. in Information Science, 2010-2018. *First position at Google.*
15. Shiri Azenkot, Co-advisor with Richard E. Ladner, Ph.D. in Computer Science, 2009-2014. *First position as assistant professor at Cornell Tech.*
16. Kristen Shinohara, Co-advisor with Wanda Pratt, Ph.D. in Information Science, 2008-2017. *First position as assistant professor at Rochester Institute of Technology.*
17. Parmit K. Chilana, Co-advisor with Amy J. Ko, Ph.D. in Information Science, 2008-2013. *First position as assistant professor at University of Waterloo.*
18. Shaun K. Kane, Co-advisor with Richard E. Ladner, Ph.D. in Information Science, 2006-2011. *First position as assistant professor at University of Maryland—Baltimore County.*
19. Susumu Harada, Co-advisor with James A. Landay, Ph.D. in Computer Science, 2006-2010. *First position at IBM Tokyo Research Lab.*
20. Krzysztof Z. Gajos, Co-advisor with Daniel S. Weld, Ph.D. in Computer Science, 2006-2008. *First position as assistant professor at Harvard University.*

Postdoctoral Advisees

1. Leah Findlater, The Information School, 2009-2011. *First position as assistant professor at University of Maryland—College Park.*

External Ph.D. Committees

1. Eugene M. Taranta II, Ph.D. dissertation committee, Computer Science, University of Central Florida, 2017 – present.
2. Aakar Gupta, Ph.D. dissertation external reviewer, Computer Science, University of Toronto, 2017. *First position as postdoctoral researcher at the University of Waterloo.*
3. James Clawson, Ph.D. dissertation committee, Human-Centered Computing, Georgia Institute of Technology, 2008-2012. *First position as postdoctoral researcher at Georgia Institute of Technology.*

Internal Ph.D. Committees (non-advisees)

1. Xiaoyi Zhang, Ph.D. dissertation committee, Computer Science, 2018. *First position at Apple Research.*
2. Dun-Yu Hsiao, Ph.D. dissertation GSR, Electrical Engineering, 2016-2017. *First position at Zillow.*
3. Charlie Matlack, Ph.D. dissertation GSR, Electrical Engineering, 2013-2014. *First position at PotaVida.org.*
4. Nicola Dell, Ph.D. dissertation committee, Computer Science, 2012-2015. *First position as assistant professor at Cornell Tech.*
5. Hao Lü, Ph.D. dissertation committee, Computer Science, 2012-2014. *First position at Google.*
6. Morgan Dixon, Ph.D. dissertation committee, Computer Science, 2012-2014. *First position at Adobe Research.*
7. Suporn Pongnumkul, Ph.D. dissertation proposal GSR, Computer Science, 2011. *First position at National Electronics and Computer Technology Center, Thailand.*
8. Michael Toomim, Ph.D. dissertation proposal committee, Computer Science, 2010-2013. *Did not graduate.*
9. Jaehong Chon, Ph.D. dissertation GSR, Electrical Engineering, 2009-2011. *First position at Qualcomm.*
10. Chandrika Jayant, Ph.D. dissertation committee, Computer Science, 2009-2011. *First position at Nokia Research.*
11. Colin Birge, Ph.D. dissertation proposal committee, Human-Centered Design & Engineering, 2008-2013. *First position as business analyst at the University of British Columbia.*
12. Craig M. Prince, Ph.D. dissertation committee, Computer Science, 2007-2011. *First position at Google.*
13. Alan L. Liu, Ph.D. dissertation committee, Computer Science, 2007-2010. *First position at Kiha Software.*
14. Anna Cavender, Ph.D. dissertation committee, Computer Science, 2007-2010. *First position at Google.*
15. Neva Cherniavsky, Ph.D. dissertation committee, Computer Science, 2008-2009. *First position as postdoctoral researcher at INRIA, France.*
16. Jeffrey Bigham, Ph.D. dissertation committee, Computer Science, 2006-2009. *First position as assistant professor at University of Rochester.*
17. Jerrod A. Larson, Ph.D. dissertation GSR, Technical Communication, 2008-2009. *First position at Boeing.*
18. Jon DeShazo, Ph.D. dissertation GSR, Biomedical & Health Informatics, 2007-2009. *First position as assistant professor at Virginia Commonwealth University.*

Other Research Advising

1. Ying-Chao “Tony” Tung, Advisor, Ph.D. in Computer Science, 2016-2019. *Departed with M.S. in Computer Science. First position at Asana.*
2. Erin McAweeney, Research Assistant, MSIM, 2016-2018. *First position at Google News.*
3. Anya K. Hsu, Informatics Capstone and Research Assistant, 2016-2017. *First position at Aerotek.*
4. Dimitra Anastasiou, European Union Programme Horizon 2020, Luxembourg Institute of Science and Technology, 2017 – 2019.
5. Chinmay Nirkhe, Research Assistant, Lakeside Upper School, 2012. *Enrolled as undergraduate, California Institute of Technology.*
6. Phillip Pasqual, Research Assistant, Informatics major, 2011-2013.
7. Katie O’Leary, Research Assistant, 2010-2012. *Enrolled in Information Science Ph.D. program, University of Washington.*
8. Nelson Nogales, Research Assistant, 2010-2011. *First position at ZAAZ.*
9. Alex Jansen, Advisor, Ph.D. in Information Science, 2010-2013. *Departed with M.S. in Information Science. First position at Revolv.*
10. Tressa Johnson, Research Assistant, MLIS, 2009-2010.
11. Alex Jansen, NSF REU Scholar, Informatics major, 2009-2010. *Enrolled in Information Science Ph.D. program, University of Washington.*
12. Peter Kamb, NSF REU Scholar, Informatics major, 2009-2010. *First position at Swype.*
13. Eun Kyoung Choe, Ph.D. in Information Science, 2008-2009. *Switched advisors.*

SERVICE

University of Washington

The Information School

Ad hoc Reviewer, Open Search Committee: 2019.
 Past-Chair, Elected Faculty Council: 2018-2019.
 Chair, Elected Faculty Council: 2017-2018.
 Chair-Elect, Elected Faculty Council: 2016-2017.
 Chair, “HCI for Social Good” Faculty Search Committee: 2016-2017.
 Faculty Champion, MSIM User Experience Specialization (5 years): 2013-2018.
 Chair, MSIM Information Architecture & Organization Subcommittee: 2013-2014.
 Member, Elected Faculty Council: 2011-2012.
 Member, Ph.D. Admissions Committee (5 years): 2006-2011.
 Member, Ph.D. Program Committee (4 years): 2007-2011.
 Member, HCI Jr. Faculty Search Committee: 2007-2008.
 Member, Recognition & Nomination Committee: 2006-2008.
 Member, Social Committee: 2006-2007.

Master of Human-Computer Interaction + Design (MHCI+D)

Chair, Master of HCI and Design: 2015-2016.
 Co-Chair, Master of HCI and Design (2 years): 2013-2015.
 Chair, Admissions Committee, Master of HCI and Design (4 years): 2014-2017.
 Member, Admissions Committee, Master of HCI and Design: 2013.
 Co-Founder, Master of HCI and Design (3 years): 2009-2012.

DUB Group (design: use: build:)

Co-Chair, DUB Interdisciplinary Faculty Committee (2 years): 2013-2015.
 Presenter, DUB State of the Union Address: 2012.
 Co-Chair, DUB Annual Retreat: 2012.
 Member, DUB Annual Retreat Planning Committee: 2008, 2011.
 Member, DUB CHI Reception Planning Committee: 2009, 2011.
 Invited Judge, Shobe Startup Prize: 2015.

Center for Research and Education on Accessible Technology and Experiences (CREATE)

Inaugural Co-Director for Research: 2019-2020.

CoMotion (tech transfer)

Invited Member, CoMotion Commercialization Committee for Software/IT: 2015-2016.

Carnegie Mellon University

Co-Creator, 15-291: HCI for Computer Scientists: 2003.
 Member, Admissions Committee for Ph.D. in Human-Computer Interaction: 2002.

Industry Boards

Board Observer, AnswerDash: 2016 – 2019.
 Chairman of the Board, AnswerDash: 2013-2015.
 Advisor, Seattle InfoCamp Advisory Board: 2008-2012.
 Advisor, Statewide Website Advisory Group (SWAG), Washington State Access to Justice Board: 2007-2009.

Other Service

Volunteer, Laurelhurst Elementary School Library: 2012-2013.

Service to My Academic Field

External Tenure & Promotion Reviewer

Five (5) cases reviewed from 2016-2019:

- University of Florida
- Stanford University
- Cornell University
- Cornell Tech
- University of Waterloo

Journal Associate Editor

ACM Transactions on Computer-Human Interaction (ACM Press): 2012 – present.
 Foundations and Trends in Human-Computer Interaction (Now): 2012-2015.
 International Journal of Human-Computer Studies (Elsevier): 2010-2012.
 Advances in Human-Computer Interaction (Hindawi): 2007-2010.

Conference Committees

Conference Co-Chair, ACM Human Factors in computing Systems (CHI): 2020. [Resigned after 12 months of service.]
 Program Co-Chair, ACM User Interface Software and Technology (UIST): 2016.
 Workshops Co-Chair, ACM Human Factors in Computing Systems (CHI): 2010.

Program Committees (PCs)

ACM Human Factors in Computing Systems (CHI) (5 years): 2008-2009, 2011-2012, 2017.
 ACM User Interface Software and Technology (UIST) (3 years): 2007, 2009, 2011.
 ACM User Interface Software and Technology Visions track (UIST Visions): 2018.
 ACM Computers and Accessibility (ASSETS) (4 years): 2008, 2010-2011, 2018.
 Information Schools' Conference (iConference): 2011.
 Pervasive Computing (Pervasive): 2007.

Doctoral Consortia

Faculty Mentor, ACM Conference on Computers and Accessibility (ASSETS): 2007.

Federal Grant Referee

National Science Foundation: Information and Intelligent Systems – Cyber-Human Systems: 2015.

Conference Session Chair

ACM Human Factors in Computing Systems (CHI):

- 2017: Improving touch interfaces
- 2009: Pointing and cursor techniques
- 2008: Tangibles: Input & output

ACM User Interface Software & Technology (UIST):

- 2017: Phones & watches
- 2016: Interaction techniques
- 2011: Pointing
- 2009: Mobile magic

ACM Computers and Accessibility (ASSETS):

- 2017: Memory impairments & motor impairments

ACM Hypertext & Social Media (HT):

- o 2019: Search & browsing

Journal Peer-Reviewer

PACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT): 2017.
 ACM Transactions on Computer-Human Interaction (TOCHI): 2006, 2008-2009, 2012-2017, 2019.
 ACM Transactions on Accessible Computing (TACCESS): 2007-2008, 2011-2013.
 ACM Transactions on Mathematical Software (TOMS): 2014-2015.
 ACM Computing Surveys: 2008-2009.
 Human-Computer Interaction Journal: 2003-2006, 2009.
 IEEE Transactions on Human-Machine Systems (THMS): 2014-2015.
 International Journal of Human-Computer Studies (IJHCS): 2007-2008, 2010-2011.
 International Journal of Human-Computer Interaction (IJHCI): 2012.
 Foundations and Trends in Human Computer Interaction: 2011.
 Mathematics and Social Sciences: 2012.
 Ergonomics: 2012.
 Behaviour and Information Technology: 2009-2010.
 Interacting with Computers (IwC): 2009.
 RESNA Assistive Technology Journal: 2008.
 Universal Access in the Information Society (UAIS): 2007, 2011.
 Journal of the American Society for Information Science & Technology (JASIST): 2006.
 Advances in Human-Computer Interaction: 2008-2009.
 IEEE Computer: 2003.

Conference Peer-Reviewer

ACM Human Factors in Computing Systems (CHI) (17 years): 2003-2019.
 ACM User Interface Software & Technology (UIST) (13 years): 2004-2012, 2014-2017.
 ACM Computers and Accessibility (ASSETS) (4 years): 2008, 2010-2011, 2018.
 ACM Engineering Interactive Computing Systems (EICS): 2018.
 ACM Human-Computer Interaction with Mobile Devices and Services (MobileHCI): 2012.
 ACM Computer-Supported Cooperative Work (CSCW): 2008.
 ACM Intelligent User Interfaces (IUI): 2008.
 ACM International Conference on Multimodal Interfaces (ICMI): 2006.
 ACM Interactive Tabletops and Surfaces (ITS): 2011.
 ACM Designing Interactive Systems (DIS): 2012.
 World Wide Web (WWW): 2012.
 IEEE Tabletops and Interactive Surfaces: 2008.
 IEEE Wearable Computers (ISWC): 2005, 2008.
 IFIP TC13 Human-Computer Interaction (INTERACT): 2011.
 Pervasive Computing (Pervasive): 2007, 2012.
 Graphics Interface (GI): 2006-2007, 2012, 2018.
 British HCI Group Annual Conference: 2002.

Student Volunteer

ACM User Interface Software & Technology (UIST): 2002, 2004.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM), Senior Member
 Special interest group in Computer-Human Interaction (SIGCHI)
 Special interest group in Accessible Computing (SIGACCESS)