

EDWARD CUTRELL

Microsoft Research
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Redmond, WA 98052, USA

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<http://aka.ms/cutrell>

EDUCATION

University of Oregon (1993–1999)

Eugene, OR

M.Sc., Cognitive Psychology

Thesis: Towards a neurophysiologic basis for obsessive compulsive disorder

Ph.D., Cognitive Psychology (Neuroscience focus)

Thesis: Electrical microstimulation of posterior parietal orienting systems in rhesus macaques.

Committee: Richard Marrocco (advisor), Michael Posner, Barbara Gordon-Lickey, Nathan Tublitz

Rice University (1988–1992)

Houston, TX

B.A., Psychology, Cognitive Science

PROFESSIONAL EXPERIENCE

Microsoft Research, Redmond, WA

Sr. Principal Research Manager, Ability group (2016–present)

Microsoft Research India, Bangalore, India

Senior Research Manager, Technology for Emerging Markets group (2010–2016)

University of North Carolina, Charlotte, Charlotte, NC

Associate Faculty, Department of Software Information Systems (2014-2019)

University of Washington, Seattle, WA

Affiliate Professor, Information School (2009-present)

Microsoft Research, Redmond, WA

Researcher, Adaptive Systems and Interaction group (2000–2010)

University of Texas Health Sciences Center, Houston, TX

Research Associate (Spring 1990–Fall 1993)

Rice University, Houston, TX

Research Assistant (Summer 1989–Spring 1992)

PROFESSIONAL SERVICE

Boards & advising

Steering Committee, CHERISH-DE Centre, Swansea University

Technical Advisory Board, Coleman Institute for Cognitive Disabilities, University of Colorado

Advisory Board, Action for India

External Reviewer, ICT4D Centre at the University of Cape Town

Board Chair, UN University – Computing & Society Macau (2014-2019)

Conferences and Professional Societies

Offices & Conference Committees

Papers Co-Chair, CHI 2018

Chief panelist, ProSPER.Net 2013 Young Scientist Award for 'ICT for Sustainable Development'

Technical Co-Chair, ACM APCHI 2013

Chair, *pro tem*, ICT4D Community in ACM SIGCHI 2012

General Conference Co-Chair, ACM DEV 2012

Industrial Liaison, Mobile HCI 2012

Chief panelist, ProSPER.Net 2011 Young Scientist Award for 'ICT for Sustainable Development'

Executive Committee Adjunct Chair for Volunteers, ACM SIGCHI (2004–2008)

Notes Co-Chair, CHI 2006

Program Committees

ACM ASSETS 2024

ACM ASSETS 2023

ACM ASSETS 2022

ACM ASSETS 2021

ACM ASSETS 2020

ACM ASSETS 2019

ICTD X (2018), Senior PC

ACM ASSETS 2018

ACM COMPASS 2018

CHI 2017

CSCW 2017

ACM DEV 8 (2017)

ICTD 2017, Senior PC

CHI 2016

ACM DEV 7 (2016)

CSCW 2016

ICTD 2016, Senior PC

ACM DEV 6

ICTD 2015, Senior PC

Learning@Scale 2015

CHI 2015

CSCW 2015

India HCI 2014

MobileHCI 2014

Learning@Scale 2014

CSCW 2014

ICTD 2013, Senior PC

ACM DEV 4

INTERACT 2013

CSCW 2013

Group 2012

CSCW 2012

ICTD 2012
ACM DEV 2012
CHI 2011
iConf 2011
ICTD 2010
ACM DEV 2010
UIST 2010
HCIR 2010
WWW 2010
SIGIR 2010 workshop for Desktop Search
JCDL/ICADL 2010 DL-DEV workshop
CHI 2009
ETRA 2008
CHI 2007
UIST 2006
WWW 2006 workshop for Collaborative Tagging
SIGIR 2006 workshop for Exploratory Search
SIGIR 2006 workshop for Faceted Search

Reviewing

Journals:

ACM Transactions on Accessible Computing (TACCESS)
ACM Transactions on Applied Perception (TAP)
ACM Transactions on Computer-Human Interaction (TOCHI)
ACM Transactions on Information Systems (TOIS)
ACM Transactions on the Web (TWEB)
Communications of the ACM (CACM)
Frontiers in Virtual Reality
Foundations and Trends in Human Computer Interactions
Human-Computer Interaction (HCI)
IEEE Transactions on Visualization & Computer Graphics (TVCG)
Interacting with Computers
International Journal of Human-Computing Studies (IJHCS)
Journal of the American Society for Information Science and Technology (JASIST)
User Modeling and User Adapted Interaction (UMUAI)

Conferences:

ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS)
ACM Conference on Human Factors and Computing Systems (CHI)
ACM Conference on Computer Supported Cooperative Work (CSCW)
ACM Conference on Research and Development in Information Retrieval (SIGIR)
ACM Conference on Learning at Scale (L@S)
ACM International Conference on Computer Graphics and Interactive Technologies (SIGGRAPH)
ACM International Conference on Intelligent User Interfaces (IUI)
ACM International Conference on Ubiquitous Computing (UbiComp)
ACM International Conference on Mobile Human-Computer Interaction (Mobile HCI)
ACM Conference on Computers and Accessibility (ASSETS)
ACM Symposium on User Interface Software and Technology (UIST)

ACM Symposium on Eye Tracking Research and Applications (ETRA)
ACM Symposium on Computing for Development (DEV)
Augmented Cognition International Conference (ACI)
Graphics Interface (GI)
Human Computing and Information Retrieval (HCIR)
IEEE Symposium on Information Visualization (InfoVis)
ACM/IEEE Conference on Information and Communication Technologies and Development (ICTD)
IFIP TC13 Conference in Human-Computer Interaction (INTERACT)
IEEE International Conference on Pervasive Computing (Pervasive)
International World Wide Web Conference (WWW)
International Development Informatics Association Conference (IDIA)

PUBLICATIONS

Refereed Journals

- Yamagami, M., Junuzovic, S., Gonzalez-Franco, M., Ofek, E., Cutrell, E., Porter, J.R., Wilson, A.D., Mott, M.E. (2022). Two-In-One: A design space for mapping unimanual input into bimanual interactions in VR for users with limited movement. *ACM Transactions on Accessible Computing*, **15**(3). Article 23 (September 2022), 25 pages. ACM Press.
- Morrison, C., Cutrell, E., Grayson, M., Roumen, G., Marques, R. F., Thieme, A., Taylor, A., & Sellen, A. (2021). PeopleLens. *Interactions*, **28**(3), 10-13. ACM Press.
- Marriott, K., Lee, B., Butler, M., Cutrell, E., Ellis, K., Goncu, C., Hearst, M., McCoy, K., & Szafir, D. A. (2021). Inclusive data visualization for people with disabilities: A call to action. *Interactions*, **28**(3), 47-51. ACM Press.
- Thieme, A., Cutrell, E., Morrison, C., Taylor, A., & Sellen, A. (2020). Interpretability as a dynamic of human-AI interaction. *Interactions*, **27**(5), 40-45. ACM Press.
- Winters, M. R., Joshi, N., Cutrell, E., & Morris, M.R. (2019). Strategies for auditory display of social media. *Ergonomics in Design: The Quarterly of Human Factors Applications*, **27**(1), 11-15. SAGE Journals.
- Jones, M., Robinson, S., Pearson, J., Joshin, M., Raju, D., Mbogo, C.C., Wangari, S., Joshi, A., Cutrell, E., & Harper, R. (2016). Beyond "yesterday's tomorrow": future-focused mobile interaction design by and for emergent users. In *Personal and Ubiquitous Computing*, Springer. 21 Nov. 2016
- Corrigan-Gibbs, H., Gupta, N., Northcutt, C., Cutrell, E., & Thies, W. (2015). Deterring cheating in online environments. *ACM Transactions on Computer-Human Interaction*, **22**(6), Article 28 (September 2015), 23 pages. ACM Press.
- McCarthy, T., Pal, J. & Cutrell, E. (2013). The "voice" has it: Screen reader adoption and switching behavior among vision impaired persons in India. *Assistive Technology: The official Journal of RESNA*, **25**(4), 222-229.
- Rangaswamy, N. & Cutrell, E. (2012). Re-resourceful networks: Notes from a mobile social networking platform in India. *Pacific Affairs*, **85**(3), 587-606.
- Medhi, I., Menon, R. S., Cutrell, E., & Toyama, K. (2012). Correlation between limited education and transfer of learning. *Information Technology & International Development*, **8**(2), 51-65.

Cutrell, E., & Dumais, S. T. (2006). Exploring personal information. In *Communications of the ACM (Special Issue: Supporting exploratory search)*, **49**(4), 50–51.

Cutrell, E., Dumais, S. T., & Teevan, J. (2006). Searching to eliminate personal information management. In *Communications of the ACM (Special Issue: Personal information management)*, **49**(1), 58–64.

Cutrell, E. B., & Marrocco, R. T. (2002). Electrical microstimulation of primate posterior parietal cortex initiates orienting and alerting components of covert attention. *Exp Brain Res*, **144** (1): 103–13.

Davidson, M. C., Cutrell, E. B., & Marrocco, R. T. (1999). Scopolamine slows the orienting of attention in primates to cued visual targets. *Psychopharmacology*, **142**, 1–8.

Macenski, M. J., Cutrell, E. B., & Meisch, R. A. (1993). Concurrent pentobarbital- and saccharin-maintained responding: Effects of saccharin concentration and schedule conditions. *Psychopharmacology*, **112**, 204–210.

Meisch, R. A., Lemaire, G. A., & Cutrell, E. B. (1992). Oral self-administration of pentobarbital by rhesus monkeys: relative reinforcing effects under concurrent signalled DRL schedules. *Drug and Alcohol Dependence*, **30**, 215–225.

Refereed Conferences

2024

Leong, J., Tang, J.C., Cutrell, E., Junuzovic, S, Baribault, G., & Inkpen, K. (2024). Dittos: Personalized, embodied agents that participate in meetings when you are unavailable. In *Proceedings of the ACM on Human-Computer Interaction (CSCW '24)*, ACM press.

Zhang, Z., Thompson, J.R., Shah, A., Agrawal, M., Sarikaya, A., Wobbrock, J.O., Cutrell, E., & Lee, B. (2024). ChartA11y: Designing accessible touch experiences of visualizations with blind smartphone users. In *Proceedings of ASSETS 2024, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

2023

Morrison, C., Grayson, M., Marques, R.F., Massiceti, D., Longden, C., Wen, L, & Cutrell, E. (2023). Understanding personalized accessibility through teachable AI: Designing and evaluating Find My Things for people who are blind or low vision. In *Proceedings of ASSETS 2023, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Mehdizadeh, S.K., Cutrell, E, Winters, R.M., Djuric, N., Cheng, Y., Tashev, I.J., Wang, Y.T. (2023). EEG and eye-tracking error-related responses during predictive text interactions: A BCI case study. In *45th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, IEEE.

Mott, M.E., Tang, J., & Cutrell, E. (2023). Accessibility of profile pictures: Alt text and beyond to express identity online. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*, ACM Press.

Thompson, J.R., Martinez, J.J, Sarikaya, A., Cutrell, E., & Lee, B. (2023). Chart Reader: Accessible visualization experiences designed with screen reader users. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*, ACM Press.

Ranganeni, V., Sinclair, M., Ofek, E., Miller, A., Campbell, J., Kolobov, A, & Cutrell, E. (2023). Exploring levels of control for a navigation assistant for blind travelers. In *Proceedings of the 2023 ACM/IEEE International Conference on Human-Robot Interaction (HRI '23)*.

Si-Mohammed, H., Holz, C., Wilson, A., Gamper, H., Lee, A. K. C., Emmanouilidou, D., Cutrell, E., & Tashev, I. (2023). On the effect of size and contrast of the SSVEP visual stimuations on classification accuracy and user-friendliness in virtual reality. In *2023 11th International Winter Conference on Brain-Computer Interface (BCI)*.

2022

Davis, J.U., Tang, J., Cutrell, E., & Seyed, T. (2022). PokerFace mask: Exploring augmenting masks with captions through an interactive, mixed-reality prototype. In *Proceedings of the 55th Hawaii International Conference on System Sciences (HICCS '22)*, University of Hawai'i at Mānoa.

2021

Mack, K., Cutrell, E., Lee, B., & Morris, M.R. (2021). Designing tools for high-quality alt text authoring. In *Proceedings of ASSETS 2021, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Morrison, C., Cutrell, E., Grayson, M., Becker, E.R.B., Kladouchou, V., Pring, L., Jones, K., Marques, R.F., Longden, C., & Sellen, A. (2021). Enabling meaningful use of AI-infused educational technologies for children with blindness: Learnings from the development and piloting of the PeopleLens curriculum. In *Proceedings of ASSETS 2021, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Theodorou, L., Massiceti, D., Zintgraf, L., Stumpf, S., Morrison, C., Cutrell, E., Harris, M.T., Hoffman, K. (2021). Disability-first dataset creation: Lessons from constructing a dataset for teachable object recognition with blind and low vision data collectors. In *Proceedings of ASSETS 2021, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Massiceti, D., Zintgraf, L., Bronskill, J., Theodorou, L., Harris, M.T., Cutrell, E., Morrison, C., Hofmann, K., & Stumpf, S. (2021). ORBIT: A real-world few-shot dataset for teachable object recognition. In *Proceedings IEEE International Conference on Computer Vision, 2021 (ICCV '21)*, IEEE.

Morrison, C., Cutrell, E., Grayson, M., Thieme, A., Taylor, A., Roumen, G., Longden, C., Tschischek, S., Marques, R.F., & Sellen, A. (2021). Social sensemaking with AI: Designing an open-ended AI experience with a blind child. In *Proceedings of CHI 2021, Human Factors in Computing Systems*, ACM press.

2020

Kameswaran, V., Fiannaca, A., Kneisel, M., Karlson, A., Cutrell, E., & Morris, M.R. (2020). Understanding the in-situ use of commonly available navigation technologies by people with visual impairments. In *Proceedings of ASSETS 2020, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Mott, M., Tang, J., Kane, S., Cutrell, E., & Morris, M.R. (2020). "I just went into it assuming that I wouldn't be able to have the full experience": Understanding the accessibility of virtual reality for people with limited mobility. In *Proceedings of ASSETS 2020, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Begel, A., Tang, J., Andrist, S., Barnett, M., Carbary, T., Choudhury, P., Cutrell, E., Fung, A., Junuzovic, S., McDuff, D., Rowan, K., Sahoo, S., Waldern, J.F., Wolk, J., Zheng, H., & Zolyomi, A.

(2020). Lessons learned in designing AI for autistic adults.). In *Proceedings of ASSETS 2020, ACM SIGACCESS Conference on Computers and Accessibility*, ACM press.

Siu, A.F., Sinclair, M., Kovacs, R., Ofek, E., Holz, C., & Cutrell, E. (2020). Virtual reality without vision: A haptic and auditory white cane to navigate complex virtual worlds. In *Proceedings of CHI 2020, Human Factors in Computing Systems* (Honolulu, HI), ACM press.

Grayson, M., Massiceti, D., Thieme, A., Cutrell, E., Marques, R., & Morrison, C. (2020). A dynamic AI system for extending the capabilities of blind people. In *Proceedings of CHI 2020, Human Factors in Computing Systems* (Honolulu, HI), ACM press.

An, W.W., Si-Mohammed, H., Huang, N., Gamper, H., Lee, A.K.C., Holz, C., Johnston, D., Jalobeanu, M., Emmanouilidou, D., Cutrell, E., Wilson, A., & Tashev, I. (2020). Decoding auditory and tactile attention for use in an EEG-based brain-computer interface. In *2020 8th International Winter Conference on Brain-Computer Interface (BCI)*, IEEE.

2019

Mott, M., Cutrell, E., Gonzalez Franco, M., Holz, C., Ofek, E., Stoakley, R., & Morris, M.R (2019). Accessible by design: An opportunity for virtual reality. In *2019 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)*, IEEE.

Shi, L., Tomlinson, B.J., Tang, J., Cutrell, E., McDuff, D., Venolia, G., Johns, P., & Rowan, K. (2019). Accessible video calling: Enabling nonvisual perception of visual conversation cues. In *Proceedings of the ACM on Human-Computer Interaction: Volume 3, CSCW, Article 131*, ACM press.

Swaminathan, S., Medhi Thies, I., Mehta, D., Cutrell, E., Sharma, A., & Thies, W. (2019). Learn2Earn: Using mobile airtime incentives to bolster public awareness campaigns. In *Proceedings of the ACM on Human-Computer Interaction: Volume 3, CSCW, Article 49*, ACM press. **(Best paper honorable mention)**

Zolyomi, A., Begel, A., Waldern, J.F., Tang, J., Barnett, M., Cutrell, E., McDuff, D., Andrist, S., & Morris, M.R. (2019). Managing stress: The needs of autistic adults in video calling. In *Proceedings of the ACM on Human-Computer Interaction: Volume 3, CSCW, Article 134*, ACM press. **(Best paper honorable mention)**

Saha, M., Fiannaca, A., Kneisel, M., Cutrell, E. & Morris, M.R. (2019). Closing the gap: Designing for the last-few-meters wayfinding problem for people with visual impairments. In *Proceedings of ASSETS 2019, ACM SIGACCESS Conference on Computers and Accessibility*, (Pittsburgh, PA) ACM press.

Zhao, Y., Cutrell, E., Holz, C., Morris, M.R., Ofek, E., & Wilson, A.D. (2019). SeeingVR: A set of tools to make virtual reality more accessible to people with low vision. In *Proceedings of CHI 2019, Human Factors in Computing Systems* (Glasgow), ACM press.

2018

Gleason, C., Fiannaca, A. J., Kneisel, M., Cutrell, E., & Morris, M.R. (2018). FootNotes: Geo-referenced audio annotations for nonvisual exploration. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technology (IMWUT 2018)*, 2(3), ACM press.

Bennett, C., E, J., Mott, M., Cutrell, E., & Morris, M.R. (2018). How teens with visual impairments take, edit and share photos on social media. In *Proceedings of CHI 2018, Human Factors in Computing Systems*, (Montreal) ACM press.

Guinness, D., Cutrell, E., Morris, M.R. (2018). Caption Crawler: Enabling reusable alternative text descriptions using reverse image search. In *Proceedings of CHI 2018, Human Factors in Computing Systems* (Montreal), ACM press. **(Best of CHI honorable mention)**

Morris, M.R., Johnson, J., Bennett, C., & Cutrell, E. (2018). Rich representations of visual content for screen reader users. In *Proceedings of CHI 2018, Human Factors in Computing Systems* (Montreal), ACM press.

Mott, M., E, J., Bennett, C., Cutrell, E., & Morris, M.R. (2018). Understanding the accessibility of smartphone photography for people with motor impairments. In *Proceedings of CHI 2018, Human Factors in Computing Systems* (Montreal), ACM press.

Thieme, A., Bennett, C., Morrison, C., Cutrell, E., & Taylor, A.S. (2018). "I can do everything but see!" – How people with vision impairments negotiate their abilities in social contexts. In *Proceedings of CHI 2018, Human Factors in Computing Systems* (Montreal), ACM press.

Zhao, Y., Bennett, C., Benko, H., Cutrell, E., Holz, C., Morris, M.R., & Sinclair, M. (2018). Enabling people with visual impairments to navigate virtual reality with a haptic and auditory cane simulation. In *Proceedings of CHI 2018, Human Factors in Computing Systems* (Montreal), ACM press.

2017

Morrison, C., Cutrell, E., Dhareshwar, A., Doherty, K., Thieme, A., & Taylor, A. (2017). Imagining artificial intelligence applications with people with visual disabilities using tactile ideation. In *Proceedings of ASSETS 2017, ACM SIGACCESS Conference on Computers and Accessibility* (Baltimore, MD) ACM press.

MacLeod, H., Bennett, C.L., Morris, M.R., & Cutrell, E. (2017). Understanding blind people's experiences with computer-generated captions of social media images. In *Proceedings of CHI 2017, Human Factors in Computing Systems* (Denver), ACM press. **(Best of CHI honorable mention)**

Sobel, K., Fiannaca, A., Campbell, J., Kulkarni, H., Paradiso, A., Cutrell, E., & Morris, M.R. (2017). Exploring the design space of AAC awareness displays. In *Proceedings of CHI 2017, Human Factors in Computing Systems* (Denver), ACM press. **(Best of CHI honorable mention)**

Sobel, K., Kovacs, G., McQuillen, G., Cross, A., Chandrasekaran, N., Riche, N.H., Cutrell, E., & Morris, M.R. (2017). EduFeed: A social feed to engage preliterate children in educational activities. In *Proceedings of CSCW 2017, Computer Supported Cooperative Work* (Portland), ACM press.

2016

Garg, S., Tripathi, A., & Cutrell, E. (2016). Accurate eye center localization using snakuscul. In *Proceedings of WACV 2016, IEEE Winter Conference on Applications of Computer Vision*, (Lake Placid, NY), IEEE Conference Publications

2015

Vashistha, A., Cutrell, E., Dell, N., & Anderson, R. (2015). Social media platforms for low-income blind people in India. In *Proceedings of ASSETS 2015, ACM SIGACCESS Conference on Computers and Accessibility*, (Lisbon), ACM press. **(ASSETS Best Student Paper Award)**

Vashistha, A., Vaish, R., Cutrell, E., & Thies, W. (2015). The Whodunit Challenge: Mobilizing the crowd in India. In *Proceedings of Human-Computer Interaction INTERACT 2015*, (Bamberg, Germany, 2015).

Vashistha, A., Cutrell, E., Borriello, G., & Thies, W. (2015). Sangeet Swara: A community-moderated voice forum in rural India. In *Proceedings of CHI 2015, Human Factors in Computing Systems*, (Seoul), ACM press. **(Best of CHI Award)**

Cutrell, E., O'Neill, J., Bala, S., Nitish, B., Cross, A., Gupta, N., Kumar, V., & Thies, W. (2015). Blended learning in Indian colleges with Massively Empowered Classroom. In *Proceedings of Learning at Scale 2015* (Vancouver), ACM press.

Medhi-Thies, I., Ferreira, P., Gupta, N., O'Neill, J., & Cutrell, E. (2015). KrishiPustak: A social networking system for low-literate farmers. In *Proceedings of CSCW 2015, Computer Supported Cooperative Work* (Vancouver), ACM press. **(Best of CSCW honorable mention)**

Vashistha, A., Cutrell, E., & Thies, W. (2015). Increasing the reach of snowball sampling: The impact of fixed versus lottery incentives. In *Proceedings of CSCW 2015, Computer Supported Cooperative Work* (Vancouver), ACM press.

2014

Vashistha, A., Brady, E., Thies, W., & Cutrell, E. (2014). Educational content creation and sharing by low-income visually impaired people in India. In *Fifth Symposium on Computing for Development (DEV 2014)* (San Jose, USA), ACM Press.

Cross, A., Bayyapunedi, M., Ravindran, D., Cutrell, E. & Thies, W. (2014). VidWiki: Enabling the crowd to improve the legibility of online educational videos. In *Proceedings of CSCW, Computer Supported Cooperative Work* (Baltimore), ACM press.

2013

Mohan, A., Cutrell, E. & Parthasarathy, B. (2013). Instituting credibility, accountability and transparency in local service delivery? The Helpline and Aasthi in Karnataka, India. In *Proceedings of ICTD 2013, the 6th International Conference on Information and Communication Technologies and Development* (Cape Town), ACM press.

Pai, N., Supe, P., Kore, S., Nandanwar, Y.S., Hegde, A., Cutrell, E. & Thies, W. (2013). Using automated voice calls to improve adherence to iron supplements during pregnancy: A pilot study. In *Proceedings of ICTD 2013, the 6th International Conference on Information and Communication Technologies and Development* (Cape Town), ACM press.

Schwartz, A., Bhavsar, M., Cutrell, E., Donner, J. & Densmore, M. (2013). Balancing burden and benefit: Non-prescribed use of employer-issued mobile devices. In *Proceedings of ICTD 2013, the 6th International Conference on Information and Communication Technologies and Development* (Cape Town), ACM press.

Cross, A., Bayyapunedi, M., Cutrell, E., Agarwal, A. & Thies, W. (2013). TypeRighting: Combining the benefits of handwriting and typeface in online educational videos. In *Proceedings of CHI 2013, Human Factors in Computing Systems*, (Paris), ACM press.

Cuendet, S., Medhi, I., Bali, K. & Cutrell, E. (2013). VideoKheti: Making video content accessible to low-literate and novice users. In *Proceedings of CHI 2013, Human Factors in Computing Systems*, (Paris), ACM press.

Medhi, I., Lakshmanan, M., Toyama, K. & Cutrell, E. (2013). Some evidence for the impact of limited education on hierarchical user interface navigation. In *Proceedings of CHI 2013, Human Factors in Computing Systems*, (Paris), ACM press.

Rangaswamy, N., Challugulla, G., Young, M. & Cutrell, E. (2013). Local Pocket Internet and Global Social Media. Bridging the Digital Gap: Facebook and Youth Sub-Stratum in Urban India. In *IFIP WG9.4: 12th International Conference on Social Implications of Computers in Developing Countries*, (Ocho Rios, Jamaica).

Chakraborty, D., Medhi, I., Cutrell, E. & Thies, W. (2013). Man versus Machine: Evaluating IVR versus a Live Operator for Phone Surveys in India. In *Proceedings of ACM Symposium on Computing for Development (DEV 2013)*, (Bangalore), ACM Press.

Sen, R., Cross, A., Vashistha, A. Padmanabhan, V., Cutrell, E. & Thies, W. (2013). Accurate Speed and Density Measurement for Road Traffic in India. In *Proceedings of ACM Symposium on Computing for Development (DEV 2013)*, (Bangalore), ACM Press.

2012

Cross, A., Cutrell, E. & Thies, B. (2012). Low-cost audience polling using computer vision. In *UIST 2012: 25th Annual ACM symposium on User Interface Software and Technology*, Cambridge, MA.

Oeldorf-Hirsch, A., Donner, J. & Cutrell, E. (2012). How bad is good enough? Exploring mobile video quality trade-offs for bandwidth-constrained consumers. In *NordiCHI '12: Proceedings of the 9th Nordic conference on human-computer interaction*, Copenhagen.

Medhi, I., Jain, M., Tewari, A., Bhavsar, M., Matheke-Fischer, M. & Cutrell, E. (2012). Combating rural child malnutrition through inexpensive mobile phones. In *NordiCHI '12: Proceedings of the 9th Nordic conference on human-computer interaction*, Copenhagen.

Dell, N., Vaidyanathan, V., Medhi, I., Cutrell, E. & Thies, W. (2012). "Yours is better!" Participant response bias in HCI. In *Proceedings of CHI 2012, Human Factors in Computing Systems*, (Austin), ACM press.

Gupta, A., Thies, W., Cutrell, E. & Balakrishnan, R. (2012). mClerk: Enabling mobile crowdsourcing in developing regions. In *Proceedings of CHI 2012, Human Factors in Computing Systems*, (Austin), ACM press.

Sambasivan, N. & Cutrell, E. (2012). Understanding negotiation in airtime sharing in low-income microenterprises. In *Proceedings of CHI 2012, Human Factors in Computing Systems*, (Austin), ACM press. **(Best of CHI honorable mention)**

Rangaswamy, N. & Cutrell, E. (2012). Anthropology, development and ICTs: Slums, youth and the mobile internet in urban India. In *Proceedings of ICTD 2012, the 5th ACM/IEEE International Conference on Information and Communication Technologies and Development*, (Atlanta), IEEE press.

McCarthy, T., Pal, J., Cutrell, E. & Marballi, T. (2012). An analysis of screen reader use in India. In *Proceedings of ICTD 2012, the 5th ACM/IEEE International Conference on Information and Communication Technologies and Development*, (Atlanta), IEEE press.

2011

Jain, M., Birnholtz, J., Cutrell, E. & Balakrishnan, R. (2011). Exploring display techniques for mobile collaborative learning in developing regions. In *MobileHCI 2011: 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*, (Stockholm), ACM press.

Mathur, A., Ramachandran, D., Cutrell, E., & Balakrishnan, R. (2011). An exploratory study on the use of camera phones and pico projectors in rural India. In *MobileHCI 2011: 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*, (Stockholm), ACM press.

Panjwani, S., Uppal, A., & Cutrell, E. (2011). Script-agnostic reflow of text in document images. In *MobileHCI 2011: 13th International Conference on Human-Computer Interaction with Mobile Devices and Services*, (Stockholm), ACM press.

Reda, A., Cutrell, E. & Noble, B. (2011). Towards improved web acceleration: leveraging the personal web. In *NSDR: The ACM Workshop on Networked Systems for Developing Regions*, (Washington, D.C.), ACM press.

Reda, A., Panjwani, S. & Cutrell, E. (2011). Hyke: A low-cost remote attendance tracking system for developing regions. In *NSDR: The ACM Workshop on Networked Systems for Developing Regions*, (Washington, D.C.), ACM press.

Cutrell, E. (2011). Technology for Emerging Markets at MSR India. In *Proceedings of CSCW, Computer Supported Cooperative Work*, (Hangzhou, China), ACM press, 9-16.

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Dumais, S. T., Cutrell, E., & Chen, H. (2000). Classified displays of web search results. Invited presentation at ASIS&T SIG/CR Classification Research Workshop, Nov. 12, 2000, pp. 87–90.

U.S. PATENTS

7,162,473 Method and system for usage analyzer that determines user accessed sources, indexes data subsets, and associated metadata, processing implicit queries based on potential interest to users

7,173,637 Distance-based accelerated scrolling

7,225,187 Systems and methods for performing background queries from content and activity

7,317,449 Key-based advanced navigation techniques

7,327,349 Advanced navigation techniques for portable devices
7,557,774 Displaying visually correct pointer movements on a multi-monitor display system
7,692,629 Operating touch screen interfaces
7,693,842 In situ search for active note taking
7,703,040 Local search engine user interface
7,730,430 High density cursor system and method
8,196,042 Self-revelation aids for interfaces
8,660,244 Machine translation in instant messaging applications
8,907,886 Advanced navigation techniques for portable devices
10,551,940 Apparatus for use in a virtual reality system
11,321,890 User interface for generating expressive content
11,409,361 Periodic motion-based visual stimulus

Other inventions patent pending

INVITED PRESENTATIONS

- Mar 2022 *AI, MR, and Inclusion: Challenges and Innovations in Assistive Technologies*
Good Systems Speaker Series, University of Texas at Austin
- Oct 2021 *Innovating for inclusion at Microsoft Research*
Invited talk for ASSETS 2021, ACM SIGACCESS Conference on Computers and Accessibility,
- Mar 2020 *Designing computer vision algorithms to describe the visual world to people who are blind or low vision*
Free webinar sponsored by MSR, focusing on the use of CV for image descriptions. Delivered with Danna Gurari, PhD.
- Sep 2019 *Inclusive design for all, or ICT4D and 4U! with Dr. Ed Cutrell*
Microsoft Research Podcast. A chat about research in ICTD, accessibility and HCI.
- Dec 2015 *10 years of TEM: What can we learn from a decade of ICT(4)D Research?*
Keynote address, ACM DEV 2015, London, UK
- Sep 2015 *Social media platforms for low-income blind people in India*
Keynote address, Indo-US Workshop on Emerging Accessibility Technologies for the Blind and Visually Impaired (BVI), Delhi, India
- Jul 2015 *Innovating for ICTD*
Guest lecture, IIIT Bangalore, Digital Society class, Bangalore, India
- Mar 2015 *Fundamentals of user studies*
Guest lecture, IIIT Delhi, Masters HCI class, Delhi, India
- Nov 2014 *Phones for Farmers and Apps for Activists: Designing Mobile Applications for Rural Indians*
Invited talk, DUB, University of Washington, USA
- Jun 2014 *Innovating in India: Designing for constraint, computing for inclusion*
Keynote address, CHASE/ICPC workshops at ICSE 2014, Hyderabad, India
- Apr 2014 Panel moderator, *Can you do good and do well? Exploring HCI careers in development*
CHI 2014, Toronto, Canada

- Apr 2014 *MOOCs in the developing world: Lessons from India*
Invited talk, Berkeley Inst. of Design, UC Berkeley, USA
- Mar 2014 *MOOCs in the developing world: Lessons from India*
(with Bill Thies) Invited talk, ACM Conference on Learning at Scale, Atlanta, USA
- Feb 2014 *Fundamentals of user studies*
Guest lecture, IIT Delhi, Masters HCI class, Delhi, India
- Jan 2014 Panelist, *Research aimed at broader societal impact*
COMSNETS 2014, Bangalore, India
- Oct 2013 Panelist, *Technology-based interventions for low health literacy*
5th Annual Health Literacy Research Conference, Washington, D.C., USA
- Mar 2013 *Online education for a global audience*
Guest lecture, EPFL, Personal interaction studio course, Lausanne, Switzerland
- Oct 2012 *Innovating in India: Disruptive technology for the developing world*
Keynote address, Digital Futures 2012, Aberdeen, UK
- Oct 2012 Panelist, *Future designs: Making sense of the emerging sociotech ecology*
NordiCHI 2012, Copenhagen, Denmark
- Sept 2012 Panel Moderator, *Mobile Technology: An Agent for Social Innovation & Development*
USID 2012, Bangalore, India
- Sept 2012 *Fundamentals of user studies*
Guest lecture, IIT Delhi, Masters HCI class, Delhi, India
- Oct 2011 *Innovations in computing for global development*
USID 2011, Auroville, India
- Apr 2011 Panel Moderator, *User interactions design beyond desktop and mobile*
India HCI 2011, Bangalore, India
- Apr 2011 Panelist, *Connecting the next billion Web users*
WWW 2011, Hyderabad, India
- Apr 2010 Panelist, *Computing technology in international development: Who, what, where, when, why and how?*
CHI 2010, Atlanta, USA.
- Mar 2010 *Computing for socio-economic development at Microsoft Research India*
Keynote, IDID/India HCI 2010, IIT Bombay, India.
- Nov 2009 *Computing for human development at Microsoft Research India*
International Conference on Emergent Business Models, Indian Business Academy, Bangalore, India.
- May 2009 *Making a better Web snippet*
International School of Information Management, University of Mysore, India.
- Aug 2008 *Eye movements in usability and HCI research*
Course presented at GACIT summer school, University of Tampere, Finland.
- May 2008 *Augmenting usability with eye movement process metrics: Hands-on training*
All-day course presented at CHI 2008 with Amy Alberts and Andrew Duchowski

- Jan 2007 *Eye tracking studies of information usage in Web search*
Human Computer Interaction Consortium, Winter Park, Colorado
- Jul 2005 *Phlat: Phast & phlexible personal search and organization*
MSR "Cool Talk" series
- May 2005 *User studies in a nutshell*
Talk at MSR India
- Mar 2005 *BCIs and the evolution of the user interface*
University of Oregon, Neuroinformatics Center and EGI (Electrical Geodesics, Inc.)
- Sep 2004 *Stuff I've Seen and SIS IQ*
Talk at MSR Cambridge lecture series
- July 2003 *Studies of real users: Toward understanding designs for input and interaction*
DARPA Augmented Cognition Meeting
- Jan 2003 *Usability Engineering*
Seattle Pacific University guest lecture for Information Systems Management Class
- Jun 2001 *Advanced User Interfaces at Microsoft Research*
Usability training for Microsoft interns

PROFESSIONAL AFFILIATIONS

Association for Computing Machinery (ACM) – Senior Member
 ACM Special Interest Group on Computer-Human Interaction (SIGCHI)
 ACM Special Interest Group on Information Retrieval (SIGIR)
 ACM Special Interest Group on Computers and Society (SIGCAS)
 Human Factors and Ergonomics Society (HFES)

AWARDS AND HONORS

CHI Best Paper, Honorable Mention (2018)
 CHI Best Paper, Honorable Mention (2017)
 CHI Best Paper, Honorable Mention (2017)
 SIGIR Test of Time Award (2015)
 ASSETS Best Paper (2015)
 CHI Best Paper (2015)
 CSCW Best Paper, Honorable Mention (2015)
 CHI Best Paper, Honorable Mention (2012)
 CHI Best Paper, Honorable Mention (2011)
 CHI Best Paper (2010)
 CHI Best Paper, Honorable Mention (2010)
 CHI Best Paper (2008)
 CHI Best Paper, Honorable Mention (2007)
 CHI Best Paper, Honorable Mention (2006)