

Susan Wyche, Ph.D.

Michigan State University
Department of Media and Information
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EDUCATION

- 2010 Ph.D. in Human-Centered Computing
 School of Interactive Computing
 Georgia Institute of Technology
- 2004 M.S. in Applied Research in Human-Environment Relations
 Department of Design and Environmental Analysis
 Cornell University
- 1998 B.F.A. in Industrial Design, minor in History
 School of Design
 Carnegie Mellon University

APPOINTMENTS

- 2018-present Associate Professor
 Department of Media and Information
 Michigan State University
- 2012-2018 Assistant Professor
 Department of Media and Information
 Michigan State University
- 2014-present Consulting Faculty African Studies Center
 Michigan State University
- 2012-present Consulting Faculty Center for Gender in Global Context (GenCen)
 Michigan State University
- 2012-2015 ICTD Co-Lead
 Global Center for Food Systems Innovation (GCFSI)
 One of eight development labs established through the Higher Education Solutions
 Network (HESN) of the United States Agency for International Development (USAID)
 Michigan State University
- 2010-2012 NSF/CRA Computing Innovation Fellow (postdoctoral scholar)
 Department of Computer Science
 Virginia Tech
- 1998-2000 Lead Industrial Designer, New Product Development Group
 Libbey Inc.

FELLOWSHIPS AND AWARDS

- 2015 CAREER Award, National Science Foundation (NSF)
- 2015 Best Paper Honorable Mention, ACM SIGCHI Conf. on Ubiquitous Computing
- 2013 Best Paper Honorable Mention, ACM SIGCHI Conf. on Human Factors in Computing Systems

- 2010 NSF via CRA “Computing Innovation Fellow”
- 2008 Georgia Product Development Management Association’s Student Design Competition, First Prize for “Sun Dial”
- 2007 Google Anita Borg Scholarship Finalist
- 2006 Best Paper Honorable Mention, ACM SIGCHI Conf. on Computer Supported Cooperative Work
- 1997 School of Design Merit Award Winner, Carnegie Mellon University

EXTERNAL GRANTS

- 2019-2021 National Institutes of Health (NIH) R21 Award, “Building Capacity in Human-Centered Design: Developing a Diabetes mHealth Application for and with Kenyan Adolescents,” **Susan Wyche** (PI); Jennifer Olson (Co-I); Bree Holtz (Co-I); and Denise Hershey (Co-I). Budget \$387,335.
- 2016-2021 National Science Foundation (NSF) CAREER Award, “Information and Communication Technology Use in Communities with Limited Technical Infrastructures,” **Susan Wyche**, (PI). Budget \$582,613.
- 2014-2015 The United States Agency for International Development (USAID) Development Innovation Ventures (DIV), “Simu Shape Up”: Edutainment to Shape Up Cellphone use Among African Rural Farmers,” **Susan Wyche** (PI) and Charles Steinfield (Co-I). Budget \$99,787.
- 2010 National Science Foundation (NSF) via CRA (Computing Research Association), Steve Harrison (PI) (Postdoctoral Sponsor). Budget \$270,500.

CORPORATE GIFTS

- 2013 Google Faculty Research Award, **Susan Wyche** (PI). Budget \$40,000.
 Nokia’s University Cooperation Funding, **Susan Wyche** (PI). Budget \$9,309.
 Facebook Inc., unrestricted gift, **Susan Wyche**, (PI). Budget \$40,000.
- 2011 Skype Inc., unrestricted gift, **Susan Wyche** (PI). Budget \$15,000.
- 2002 S.C. Johnson & Son, Inc., unrestricted gift, Susan Wyche (PI). Budget \$50,000.

INTERNAL GRANTS

- 2018 Michigan State University’s Trifecta Initiative Facilitating Funds Award, “Addressing an Emerging Epidemic: Human-Centered Design Approaches to Developing Personalize mHealth Services to Support Diabetes Prevention and Management in Urban Kenya,” Investigators: **Susan Wyche**, PI; Jennifer Olson (Co-I); Bree Holtz (Co-I); and Denise Hershey (Co-I). Budget \$5,000.
- 2017 Michigan State University’s Alliance for African Partnership (AAP) Grant, “Addressing the Agricultural Labor Burden in Rural East Africa: A Human-Centered Design Approach,” Investigators: Jennifer Olson (PI); **Susan Wyche**(Co-I); Erik Goodman (Co-I); Tom Schmidt (Co-I); Ruth Oniang’o (Rural Outreach Africa) (Co-I); and Eric Tarkelson (Enda Tech) (Co-I). Budget \$50,000.
- 2010 Virginia Tech’s Office of International Research, Education, and Development, **Susan Wyche** (PI). Budget \$2,500.

PUBLICATIONS

Peer-Reviewed Journal Articles

- 2019 Hardy, J., **Wyche, S.**, and Veinot, T. (to appear). "Rural HCI Research: Definitions, distinctions, methods, and opportunities," *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2019)*, Austin, TX.
- Wyche, S.**, Olson, J., & Karanu, M. "Redesigning agricultural hand-tools in Western Kenya: Considering human-centered design in ICTD." *Information Technologies & International Development (ITID)*, 15 (16).
- 2018 **Wyche, S.**, Simiyu, N. and Othieno, M.E. "Understanding Women's Mobile Phone Use in Rural Kenya: An Affordance-Based Approach," *Mobile Media & Communication*, DOI: 2050157918776684.
- Wyche, S.** and Olson, J. "Kenyan Women's Rural Realities, Mobile Internet Access, and "Africa Rising," *Information Technologies & International Development (ITID)*, 14(15).
- 2017 **Wyche, S.** and Baumer, E.P.S. "Imagined Facebook: An Exploratory Study of Non-Users' Perceptions of Social Media in Rural Zambia." *New Media & Society*, 19(7). Pgs. 1092-1108.
- 2016 **Wyche, S.**, Simiyu, N. and Othieno, M.E. "Mobile Phones as Amplifiers of Social Inequality among Rural Kenyan Women," *ACM Transactions on Computer-Human Interaction (TOCHI)*. 23(3): Article No. 14.
- Wyche, S.** "Exploring Women's Everyday Mobile Phone Experiences in Nairobi, Kenya," *Interacting with Computers*, 29(3). Pgs. 391-402.
- Wyche, S.** and Steinfield, C. "Why Don't Farmers Use Cell Phones to Access Market Prices? Technology Affordances and Barriers to Market Information Services Adoption in Rural Kenya." *Information Technology for Development*. 22(2). Pgs. 320-333.
- 2012 Grinter, R.E., **Wyche, S.P.**, Hayes, G.R. and Harvel, L.D. "Technology in Protestant Ministry." *Journal of Computer Supported Cooperative Work (JCSCW)*. Vol. 20 (6). Pgs. 449-472
- 2004 Sengers, P., Kaye, J., Boehner, K., Fairbanks, J., Gay, G., Medynskiy, E. and **Wyche, S.** (2004). "Culturally Embedded Computing." *IEEE Pervasive Computing, Special Issue on Art, Design, and Entertainment*. Vol. 3 (1), Pgs. 14-22

Peer-Reviewed Conference Publications

- 2018 **Wyche, S.**, Chidzwisano, G., Uwimbabazi, F. and Simiyu, N. "Defamiliarizing the Domestic: Exploring M-Kopa Solar Use and Sustainable Practices in Rural Kenyan Households," *First ACM Conference on Computing & Sustainable Societies (COMPASS 2018)*, Menlo Park, CA, Pgs. 35-46. (Acceptance Rate: 28%)
- Chidzwisano, G.H. and **Wyche, S.** "M-Kulinda: Using a Sensor-Based Technology Probe to Explore Domestic Security in Rural Kenya," *ACM Conference on Human Factors in Computing Systems (CHI 2018)*, Montreal, Canada, Paper No. 10. (Acceptance Rate: 26%)
- 2016 **Wyche, S.**, Steinfield, C., Cai, T., Simiyu, N., and Othieno, M.E. "Reflecting on Video: Exploring the Efficacy of Video for Teaching Device Literacy in Rural Kenya," *Proceedings of the International Conference on Information and Communication Technologies and Development (ICTD2016)*, Ann Arbor,

MI. (Acceptance Rate: 27%)

- 2015 **Wyche, S.**, Dillahunt, T.R., Simiyu, N. and Alaka, S. “If God Gives Me the Chance I will Design My Own Phone’: Exploring Mobile Phone Repair and Postcolonial Approaches to Design in Rural Kenya,” *Proc. of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp’15)*, Osaka, Japan, Pgs. 463-473. (Acceptance Rate: 25%) (**Awarded Best Paper Honorable Mention, Nomination Rate: 5%**)

Wyche, S. “Exploring Mobile Phone and Social Media Use in a Nairobi Slum: A Case for Alternative Approaches to Design in ICTD,” *Proc. International Conference on Information and Communication Technologies and Development (ICTD ‘15)*, Singapore, Article No. 12. (Acceptance Rate: 21%)

Wyche, S.P., Densmore, M. and Geyer, B.S., “Real Mobiles: Kenyan and Zambian Smallholder Farmers’ Contemporary Attitudes Towards Mobile Phones,” *Proc. International Conference on Information and Communication Technologies and Development (ICTD ‘15)*, Singapore, Article No. 9. (Acceptance Rate: 21%)

Steinfeld, C. **Wyche, S.P.**, Cai, T. and Chiwasa, H.R. “The Mobile Divide Revisited: Mobile Phone Use by Smallholder Farmers in Malawi,” *Proc. International Conference on Information and Communication Technologies and Development (ICTD ‘15)*, Singapore. (Acceptance Rate: 21%)

- 2013 **Wyche, S.P.**, Forte, A. and Schoenebeck, S.Y. “Hustling Online: Understanding Consolidated Facebook Use in an Informal Settlement in Nairobi,” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘13)*, Paris, France, Pgs. 2823-2832. (Acceptance Rate: 20%) (**Awarded Best Paper Honorable Mention, Nomination Rate: 5%**)

Wyche, S.P., and Chetty, M. “I want to imagine how that place looks:’ Designing to Support Connectivity Between African Migrants and Home,” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘13)*, Paris, France, Pgs. 2755-2764. (Acceptance Rate: 20%)

Wyche, S.P. and Murphy, L.L. “Powering the Cellphone Revolution: Findings from Mobile Phone Charging Trials in Off-Grid Kenya,” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘13)*, Paris, France, Pgs. 1959-1968. (Acceptance Rate: 20%)

Wyche, S.P., Schoenebeck, S.Y. and Forte, A. “Facebook is a Luxury’: An Exploratory Study of Social Media Use in Rural Kenya,” *Proc. ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW ‘13)*, San Antonio, TX, Pgs. 33-44. (Acceptance Rate: 37%)

- 2012 **Wyche, S.P.** and Murphy, L.L. “Dead China-Make’ Phones Off the Grid: Investigating Mobile Phone Use in Rural Africa.” *Proc. ACM SIGCHI Conf. on Designing Interactive Systems (DIS ‘12)*, Newcastle, UK, Pgs. 186-195. (Acceptance Rate: 19%)

Wyche, S.P. and Grinter, R.E. “Using Sketching to Support Design Research in New Ways: A Case Study Investigating Design and Charismatic Pentecostalism in São Paulo, Brazil.” *Proc. iConference 2012*, Toronto, Canada, Pgs. 63-71. (Acceptance Rate: 32%)

Wyche, S.P. and Grinter, R.E. “This is How We Do it in My Country: A Study of Computer-Mediated Family Communication among Kenyan Migrants in the United States.” *Proc. ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW ‘12)*, Seattle, WA, Pgs. 87-96.

(Acceptance Rate: 40%)

- 2010 **Wyche, S.P.**, Smyth, T.N., Chetty, M., Aoki, P.M. and Grinter, R.E. “Deliberate Interactions: Characterizing Technology Use in Nairobi, Kenya.” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘10), Atlanta, GA, Pgs. 2593-2602. (Acceptance Rate: 22%)
- 2009 **Wyche, S.P.**, Magnus, C.M. and Grinter, R.E. “Broadening UbiComp’s Vision: An Exploratory Study of Charismatic Pentecostals and Technology Use in Brazil.” *Proc. of the 11th International Conference on Ubiquitous Computing* (UbiComp ‘09), Orlando, FL, Pgs. 145-154. (Acceptance Rate: 12.5%)
- Wyche, S.P.** and Grinter, R.E. “Extraordinary Computing: Using Religion as a Lens for Reconsidering the Home.” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘09), Boston, MA, Pgs. 749-758. (Acceptance Rate: 25%)
- Wyche, S.P.**, Caine, K.E., Davison, B.K., Patel, S.N., Arteaga, M. and Grinter, R.E. “Sacred Imagery in Techno-Spiritual Design.” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘09), Boston, MA, (CHI Note), Pgs. 55-58. (Acceptance Rate: 25%)
- Le Dantec, C.A., Poole, E.S. and **Wyche, S.P.** “Values as Lived Experience: Evolving Value Sensitive Design in Support of Value Discovery.” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘09), Boston, MA, Pgs. 1141-1150. (Acceptance Rate: 25%)
- 2008 Taylor, A., **Wyche, S.P.**, and Kaye, J.J. “Pottering by Design.” *Proc. of the 5th ACM SIGCHI Nordic Conference Human-Computer Interaction: Building Bridges* (NordCHI ‘08), Lund, Sweden, Pgs. 363-372. (Acceptance Rate: 33%)
- Wyche, S.P.**, Aoki, P.M., and Grinter, R.E. “Re-Placing Faith: Reconsidering the Secular-Religious Use Divide in the United States and Kenya.” *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘08), Florence, Italy, Pgs. 11-20. (Acceptance Rate: 24%)
- 2006 **Wyche, S.**, Hayes, G., Harvel, L. and Grinter, R.E. “Technology in Spiritual Formation: An Exploratory Study of Computer Mediated Religious Communications.” *Proc. ACM SIGCHI Conf. on Computer Supported Cooperative Work* (CSCW ‘06), Banff, Canada, Pgs. 199-208. (Acceptance Rate: 22%). **(Awarded Best Paper Honorable Mention, Nomination Rate: 5%)**
- Wyche, S.**, Sengers, P. and Grinter, R.E. “Historical Analysis: Using the Past to Design the Future.” *Proc. of the 8th International Conference on Ubiquitous Computing* (UbiComp ‘06), Orange County, CA, Pgs. 35-51. (Acceptance Rate: 19%)

Peer-Reviewed Interactive Posters and Works In Progress

- 2019 **Wyche, S.** (to appear). “Using Cultural Probes In New Contexts: Exploring the Benefits of Probes in HCI4D/ICTD.” *Extended Abstracts, ACM Conference on Computer-Supported Cooperative Work and Social Computing* (CSCW 2019), Austin, TX.
- 2017 Holeman, I., Blake, E., Densmore, M., Ssozi, F., Goodman, E., Medhi Thies, I., and **Wyche, S.** “Co-Design Across Borders Special Interest Group.” *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems* (CHI ‘17), Denver, CO, Pgs. 1318-1321.
- 2015 Cai, T., Chiwasa, H., Steinfield, C. and **Wyche, S.** “Participatory Videos for Nutrition Training in

- Malawi: an Analysis of Knowledge Gain and Adoption.” Note, *Proc. International Conference on Information and Communication Technologies and Development (ICTD ‘15)*, Singapore, Article No. 29.
- 2009 **Wyche, S.P.**, Magnus, C.M. and Grinter, R.E. “Designer’s Sketchbook: Developing Technologies to Support Brazilian Pentecostals’ Religious Practices.” Artifact, *Proc. of the Ethnographic Praxis in Industry Conference (EPIC ‘09)*, Chicago, IL, Pg. 328.
- Wyche, S.P.** “Investigating Techno-Spiritual Practices Among Culturally Different Religious Groups.” Doctorial Consortium. *Extended Abstracts, 11th International Conference on Ubiquitous Computing (UbiComp ‘09)*, Orlando, FL.
- 2008 **Wyche, S.P.** “Investigating Design for Global Techno-Spiritual Practices.” Doctorial Consortium. *Extended Abstracts, ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW ‘08)*, San Diego, CA.
- Wyche, S.P.**, Caine, K.E., Davison, B., Arteaga, M. and Grinter, R.E. “Sun Dial: Exploring Techno-Spiritual Design through a Mobile Islamic Call to Prayer Application.” Work-in-progress, *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘08)*, Florence, Italy, Pgs. 3411-3416.
- 2007 **Wyche, S.P.**, Medynskiy, E. and Grinter, R.E. “Exploring Large Displays in American Megachurches.” Work-in-progress, *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘07)*, San Jose, CA, Pgs. 2771-2776.
- Wyche, S.P.**, Taylor, A., and Kaye, J. “Pottering: A design-oriented investigation.” Experience Report, *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘07)*, San Jose, CA, Pgs. 1893-1898.
- 2005 **Wyche, S.** “Designing speculative cleaning products for older adults.” Poster, *ACM Conference on Designing for User eXperience (DUX ‘05)*, San Francisco, CA, Article No. 49.

Peer-Reviewed Position Papers

- 2019 **Wyche, S.** “Reflection on the Role of History in Design.” *ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW 2019): Workshop on Fostering Historical Research in CSCW & HCI*, Austin, TX.
- 2017 **Wyche, S.** “Lessons from the Field: Using Design Methods in Rural Kenya.” *ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW 2017): Workshop on Reflection of Design Methods for Underserved Communities*, Portland, OR.
- 2009 **Wyche, S.P.** “Design Charrettes as a Resource: A Case Study with Students at the University of Nairobi.” *11th International Conference on Ubiquitous Computing (UbiComp ‘09): Workshop on Globicomp: Taking UbiComp Beyond the Developed World*. Orlando, FL.
- 2006 **Wyche, S.**, Harvel, L. and Grinter, R.E. “Entertaining Spirituality.” *ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘06): Workshop on Entertaining Media at Home Looking at the Social Aspects*. Montreal, Quebec, Canada.
- 2005 Dow, S. and **Wyche, S.** “Designing for Place in Urban Cemeteries.” *ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘05): Workshop on Engaging the City: Public Interfaces as Civic*

Intermediary. Portland, OR.

- 2003 **Wyche, S.** “The Elderly and Domestic Cleaning Technology: Looking Towards the Past to Shape the Future.” *ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘03): Workshop on Designing Culturally Situated Technologies for the Home*. Ft. Lauderdale, FL

Peer-Reviewed Abstracts

- 2018 **Wyche, S.** Olson, J., and Karanu, M. “Human-Centered Approaches to Redesigning Small Holder Farmers’ Agricultural Tools: Insights into Sustainable Development from Rural Kenya,” *Sustainability and Development Conference*. Ann Arbor, MI. (Acceptance Rate: ~30%)
- 2018 Olson, J., **Wyche, S.** and Karanu, M. “Testing the Human-Centered Design Approach to Reduce the Labor Burden among Farmers in Kenya: Participatory Development Redux?,” *Sustainability and Development Conference*. Ann Arbor, MI. (Acceptance Rate: ~30%)

Guest Editor

- 2017 **Wyche, S.** ICTD 2016 | From the Guest Editor—Selected Papers from ICTD2016. *Information Technologies & International Development*, 13(2).

Workshop Organization

- 2018 Hardy, J., Dailey, D., **Wyche, S.**, and Su, N.M. “Rural Computing: Beyond access and infrastructure,” Extended Abstracts, *ACM SIGCHI Conf. on Computer Supported Cooperative Work and Social Computing (CSCW ’18)*, Jersey City, N, Pgs. 463-470
- 2016 Kumar, N., Dray, S., Dearden, A., Dell, N., Densmore, M., Grinter, R. Liu, Z., Moreno-Rocha, M., Peters, A., Sari, E., Thies, W. Medhi-Thies, I., Tucker, W., Bahamondez, E., and **Wyche, S.** “Development Consortium: HCI4D Across Borders,” Extended Abstracts, *ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘16)*, San Jose, CA, Pgs. 3620-3627
- 2015 Srinivasan, J., Oreglia, E. and **Wyche, S.** “Thinking about market information systems: Bridging theory and practice.” *Open Session, International Conference on Information and Communication Technologies and Development (ICTD ‘15)*, Singapore
- 2013 Steinfield, C. and **Wyche, S.P.** “ICT4Ag: Opportunities and Challenges for Using Technology to Reach Rural Farmers in the Developing World.” *Open Session, International Conference on Information and Communication Technologies and Development (ICTD ‘13)*, Cape Town, South Africa
- 2012 **Wyche, S.P.**, Oreglia, E., Ames, M.G., Hoadley, C., Johri, A., Sengers, P. and Steinfield, C. “Learning from Marginalized Users: Reciprocity in HCI4D.” *Extended Abstracts, ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW ‘12)*, Seattle, WA, Pgs. 27-28
- 2006 Brewer, J., Kaye, J., Williams, A. and **Wyche, S.** “Sexual interactions: why we should talk about sex in HCI.” *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI ‘06)*, Montreal, Quebec, Canada, Pgs. 1695-1698

Invited Panels

- 2016 Donner, J., Larsson, C. W., Ling, R., Toyama, K., **Wyche, S.** “After Access: Inclusion, Development and a More Mobile Internet.” *Panel at the International Conference on Information and Communication Technologies and Development (ICTD ‘16)*, Ann Arbor, MI

Ntarangwi, M., Weatherspoon, L. **Wyche, S.**, Me-Scope, N., and Wambua, P. “Africa's Youth, Meeting Global Challenges of the Future.” *Panel at Michigan State University's "Eye on Africa" Series*, East Lansing, MI., February 4, 2016

2014 **Wyche, S.P.**, Lampe, C., Rangaswamy, N., Peters, A., Monroy-Hernández, and Antin, J. “Facebook in the Developing World: The Myths and Realities Underlying a Socially Networked World.” *Extended Abstracts, ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW '14)*, Baltimore, MD, Pgs. 121-124.

2012 schraefel, m.c., Kellogg, W., Ackerman, M., Marsden, G., Bødker, S., **Wyche, S.P.**, Reddy, M. and Rouncefield, M. “Domain crossing: how much expertise is enough?” *Extended Abstracts, ACM SIGCHI Conf. on Computer Supported Cooperative Work (CSCW '12)*, Seattle, WA, Pgs. 29-32

Theses

2012 **Wyche, S.P.** *Investigating Religion and Computing: A Case for Using Standpoint Theory in Technology Evaluation Studies*, Dissertation, Georgia Institute of Technology, Atlanta, GA

2004 **Wyche, S.** *Designing Speculative Cleaning Products: Using Elders' Past and Present Cleaning Experiences to Inform Design*, Master's thesis, Cornell University, Ithaca, NY

White Paper

2013 Steinfeld, C. and **Wyche, S.P.** *Information and Communication Technology for Development*, White Paper Series, Global Center for Food Systems Innovation, Michigan State University, East Lansing, MI

Magazine Articles (non-peer reviewed)

2019 Hardy, J., Phelan, C., Vigil-Hayes, M., Su, N., **Wyche, S.**, Sengers, P. “Designing from the rural.” *ACM Interactions*, July/August 2019, 26(4), Pgs. 37-41.

2011 **Wyche, S.P.** “Designing for Everyday Interactions in HCI4D.” *ACM Interactions Magazine*. March/April 2011, 18(2), Pgs. 52-56.

2008 **Wyche, S.** “Designing in the Wild.” *Ambidextrous: The Stanford University Journal of Design*

2006 **Wyche, S.** “Inspiring Ways to Design and Clean.” *Ambidextrous: The Stanford University Journal of Design*

SOFTWARE ARTIFACT

2009 iPhone Application, Sun Dial, Islam Tech, LLC., Released December 22

INVITED TALKS

2019 “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” Department of Information Systems, University of Maryland, Baltimore County (UMBC), February 13, 2019.

2018 “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” Department of Informatics Seminar, U.C. Irvine, January 12, 2018.

2017 “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” Technology and Social Behavior Speaker Series, Northwestern University, October 19, 2017.

“Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” School of Informatics and Computing, Indiana University, April 14, 2017.

- 2016 “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” GVU Center, Georgia Tech, October 6, 2016.
- “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” School of Computing and Information Technology, Jomo Kenyatta University of Agriculture and Technology, June 9, 2016.
- “Exploring Mobile Phones and Alternative Approaches to Design in Rural Kenya,” ATLAS Institute, University of Colorado, Boulder, February 24, 2016.
- 2015 “‘If God Gives Me the Chance I will Design My Own Phone’: Rural Kenyan Repairers and Reimagining Mobile Phone Design, Wesleyan University, Africanizing Technology Workshop, March 6, 2015.
- 2014 “Understanding Barriers to Mobile Phone Use in Rural Africa,” Cornell University Cornell University, International Institute for Food, Agriculture and Development (CIIFAD) seminar on October 1, 2014.
- “Facebook is a Luxury’: No Electricity, High Costs and other Barriers to Social Media Adoption in Rural Kenya,” Symposium on Internet Adoption in the Developing World: Expert Forum; Facebook Inc., Menlo Park, CA, September 8, 2014.
- “Human-Centered Technology Design,” State of the Science Conference presented by the Development Impact Lab, “Revealing Demand for Pro-Poor Innovations,” Georgetown University, Washington, DC, March 7, 2014.
- 2013 “Facebook is a Luxury’: No Electricity, High Costs and other Barriers to Social Media Adoption in Rural Kenya,” University of Michigan, School of Information, Ann Arbor, MI, October 8
- “Facebook is a Luxury’: Discussing High Costs and other Barriers to Social Media Adoption in Rural Kenya,” University of North Carolina, School of Information and Library Science, Chapel Hill, NC, September 27
- “Social Media Use in Rural and Urban Kenya,” Michigan State University’s Eye on Africa Speaker’s Series, East Lansing, MI, February 14
- 2012 “Designing for Emerging Markets,” Skype Ltd., London, U.K., April, 23
- “Computing at the Margins: Exploring & Designing for Underserved Users,” Michigan State University Science and Technology Communications Short Course, East Lansing, MI, August 16; Department of Science and Technology in Society, Virginia Tech, Blacksburg, VA, February 17; Department of Telecommunication, Information Studies, and Media, Michigan State University, East Lansing, MI, January 31; Center for Human-Computer Interaction (CHCI) Seminar, Virginia Tech, Blacksburg, VA, January 27; Brown Bag Session, Syracuse University, School of Information Studies, Syracuse, NY, January 17
- 2011 “Investigating How Religious Uses of Computing Challenges Visions of Technology’s Futures,” Conference on Using Technology in Worship and Teaching. Union

Presbyterian Seminary, Richmond, VA, October 18

“Design 101,” Research @ *iHub Workshop, *iHub, Nairobi, Kenya, June 22

“Transnational Design: Exploring the Local and the Global in HCI,” Institute of Computer Science and Information Technology, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, June 14; Berkeley Institute of Design (BiD) Seminar, University of California, Berkeley, CA, March 9; Seminar on People, Computer and Design, Stanford University, Palo Alto, CA, March 4

2010 “Design for the Developing World,” Interaction Design Association (IXDA) Conference (Interaction ‘11), Boulder, CO, February 10

“Investigating How Religious Uses of Computing Challenges Visions of Technology’s Futures,” Workshop on Exploring Social Networking Media for Your Congregation. Columbia Theological Seminary, Decatur, GA, July 7

“Extraordinary Computing: Investigating Religion, ICT Use and Design,” Human Factors and Ergonomics Society, Virginia Tech, Blacksburg, VA, October 1; Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh, PA, March 15; Microsoft Research New England, Cambridge, MA, February 18; The School of Information, University of Michigan, Ann Arbor, MI, January 27; The School of Interactive Arts + Technology, Simon Fraser University, Surrey, BC, Canada, January 18

2008 “Fieldwork and Sketching: Translating Research Themes into Conceptual Designs,” Interaction Design Association (IXDA) Conference (Interaction ‘08), Savannah, GA, February 9

“Re-Placing Faith: Reconsidering the Secular-Religious Use Divide in the United States and Kenya,” Presented to Intel Corporation’s User Experience Group, Intel, Hillsboro, OR, June 28

2004 “Aging and Housework: New Approaches to Designing Human-Centered Cleaning Products,” Presented at Intel Corporation’s “Design Brown Bag” Series, Intel, Hillsboro, OR, July 20

TEACHING EXPERIENCE

Michigan State University, Department of Media and Information

2019 Instructor, “Doctoral Seminar: Human Computer Interaction,” Fall

Instructor, “Interactive Prototyping,” Fall

Instructor, “Creating Human Centered Technology,” Spring

Instructor, “ICTD Project Design Course,” Spring

2018 Instructor, “Interactive Prototyping,” Fall

Instructor, “Creating Human Centered Technology,” Spring

Instructor, “ICTD Project Design Course,” Spring

2017 Instructor, “Creating Human Centered Technology,” Fall

Instructor, “Creating Human Centered Technology,” Spring

2016 Instructor, “Creating Human Centered Technology,” Fall

Instructor, “Qualitative Research Methods,” Spring

Instructor, “Human Computer Interaction and Experience Design,” Spring

- 2015 Instructor, “Human Computer Interaction and Experience Design,” Fall
 Instructor, “Human Computer Interaction and Experience Design,” Spring
- 2014 Instructor, “Human Computer Interaction and Experience Design,” Fall
 Instructor, “Human Computer Interaction and Experience Design,” Spring
- 2013 Instructor, “Human Computer Interaction and Experience Design,” Fall
 Instructor, “Human Computer Interaction and Experience Design,” Spring
- 2012 Instructor, “Information and Communication Technology for Development,” Spring
 Instructor, “Human Computer Interaction and Experience Design,” Fall

Virginia Tech, College of Engineering (Course Cross-Listed in Computer Science, Engineering Education, and Industrial Design Departments)

- 2011 Co-Instructor and course developer, “Engineering Design for Social Development,” Fall

Virginia Tech, College of Architecture and Urban Studies

- 2011 Co-Instructor and course developer, “Introduction to Human Computer Interaction,” Spring

Georgia Tech, School of Interactive Computing

- 2005 Graduate Teaching Assistant, “Introduction to Human-Centered Computing,” Fall

Cornell University, Department of Human Development

- 2003 Graduate Teaching Assistant, “Human Bonding,” Fall
 2001 Graduate Teaching Assistant, “Human Bonding,” Fall

Cornell University, Department of Design and Environmental Analysis

- 2002 Graduate Teaching Assistant, “Design Studio I,” Spring

STUDENTS ADVISED

Michigan State University (Ph.D.)

- Hope Chidziwisano, Media and Information, (Spring 2016-present), MIS Ph.D. Student, Primary Advisor
 Brian Geyer, Anthropology, (Fall 2016-present), Anthropology Ph.D. Student, Primary Advisor (with Dr. Chantal Tetrault, Anthropology)
 Megan Knittel, Media and Information (Spring 2019-present), MIS Ph.D., Dissertation Committee
 Ji Youn Shin, Media and Information (Spring 2019-present), MIS Ph.D., Dissertation Committee
 Dee Jordan, Geography, (Fall 2017-Spring 2019), Geography Ph.D. Student, Dissertation Committee
 Mengyan Ma, Advertising + Public Relations (Fall 2016- Spring 2019), MIS Ph.D., Dissertation Committee
 Tian Cai, Media and Information, MIS Ph.D., Dissertation Committee **(graduated Summer 2017)**
 Chimobi Ucha, Media and Information (Fall 2016-Fall 2017), MIS Ph.D.
 Chandan “Dan” Sarkar, Media and Information (Fall 2012-Spring 2013), MIS Ph.D., Dissertation Committee **(graduated Summer 2013)**

Michigan State University (M.A. and M.S.)

- Ruoyu “Nino” Shen, Media and Information, M.A. Student, Fall 2019-present
 Xinyi He, Media and Information, M.A. Student, Fall 2019-present
 Yufen Hsi, Media and Information, M.A. Student, **(graduated Summer 2019)**
 Hope Chidziwisano, Media and Information, M.A. Student **(graduated Fall 2017)**
 Emily Fesler, Media and Information, (Spring 2016-present), M.A. Student, Thesis Committee, **(graduated Summer 2019)**

Jeremy Rook, Media and Information, M.A. Student, Thesis Committee, **(graduated Fall 2018)**
Christopher Root, Agricultural, Food, and Resource Economics (AFRE), M.S. Student **(graduated Spring 2017)**
Daniel Ninsiima, Media and Information, M.A. Student **(graduated 2014)**
Shengjie “Holly” Zhou, Media and Information, M.A. Student **(graduated 2015)**
Leena Masquood, Media and Information, M.A. Student **(graduated 2014)**

PAID RESEARCH ASSISTANTS

Michigan State University

April Greenwood, Anthropology, Spring, Summer 2018
Hope Chidziwisano, Media and Information, (Spring 2016-present)
Holly Osmer, Media and Information (Fall 2016-Spring 2017)
Ashleigh Lovette, Communication (Spring 2014)
Brian Geyer, Anthropology (Spring 2014, Spring 2018)
Jonathon Choti, Department of Linguistics & Germanic, Slavic, Asian and African Language (Spring 2013)
Dominic Nangea, Agribusiness Management (Spring 2013)

PAID RESEARCH ASSISTANTS (TRAVELLED TO KENYA)

Michigan State University

Chimobi Ucha, Media and Information (Summer 2017)
Hope Chidziwisano, Media and Information (Summer, 2016 and Summer 2017)
Rellikson Kisiyula, Media and Information (Summer 2017)
Ian O’Bara, Media and Information (Summer 2016)
Florence Uwimbabazi, Advertising + Public Relations (Summer 2016)
Dominic Nangea, Agribusiness Management (Summer 2012)
Carol Myers-Scotton, PhD., Department of Linguistics & Germanic, Slavic, Asian and African Language (Summer 2012)

EXTERNAL EXAMINER FOR DISSERTATION

R. Ssembatya, Department of Computer Science, University of Cape Town
Frederick W. Meissner, Department of Computer Science, University of Cape Town

SERVICE TO PROFESSION

Associate Editor, *ACM Conference on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*

Guest Editor, *Information Technologies & International Development (ITID)*, “Best of ICTD 2016 Conference”

Papers Co-Chair, with Lakshmi Subramanian (NYU) ACM International Conference on Information and Communication Technologies and Development (ICTD’16), Ann Arbor, MI (2016)

Organizing Committee, iConference 2016, Drexel University, Philadelphia, PA (2016)

“CSCWhat’s Next” Co-Chair, with Mark Handel (Boeing), ACM Conf. on Computer Supported Cooperative Work (CSCW ‘14), Baltimore, MD (2014)

“Faculty Mentor,” Doctoral Colloquium, ACM Conf. on Computer Supported Cooperative Work (CSCW ‘13), San Antonio, TX (2013)

Papers Associate Chair, ACM Conference on Human Factors and Computing Systems (CHI)(2011, 2012, 2017, 2018)

Papers Associate Chair, IEEE/ACM International Conference on Information and Communication Technologies and Development (ICTD)(2011, 2014, 2017, 2018, 2019)

Papers Associate Chair, ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) (2014, 2019, 2020)

Papers Associate Chair, ACM Conference on Designing Interactive Systems (DIS)(2012, 2018)

Papers Associate Chair, ACM African Conference on Human Computer Interaction (AfriCHI)(2016, 2018)

Works-in-Progress Program Committee, ACM Conference on Human Factors and Computing Systems (CHI)(2013, 2016, 2017)

Big Ideas@Berkeley, Proposal Judge (2014)

Peer Review

2019 National Science Foundation (NSF)

2018 National Science Foundation (NSF)

2014 CHI 2014 Student Research Competition

Ongoing **Conferences:** ACM Conference on Human Factors and Computing Systems (CHI); ACM Conference on Computer-Supported Cooperative Work (CSCW); AfriChi, International Conference on Ubiquitous Computing (UbiComp); IEEE/ACM International Conference on Information and Communication Technologies and Development (ICTD); International Conference on Tangible, Embedded and Embodied Interaction (TEI); ACM Conference on Designing Interactive Systems (DIS); Participatory Design Conference (PDC)

Ongoing **Journals:** *Interacting with Computers*; *ACM Transactions on Computer-Human Interaction (TOCHI)*; *New Media & Society*; *Mobile Media & Communication*; *The Information Society*; *Journal of Communication*; *International Journal of Communication*; *Information Technologies & International Development*; *Sociological Forum*

2011 National Science Foundation (NSF)

SERVICE TO MICHIGAN STATE UNIVERSITY

Open-Rank Position in Media and Information Faculty Search Committee (Chair), 2019-present

Annual Performance Review Committee, 2019-present

Department Chair Search Committee, 2018-2019

Undergraduate Curriculum Committee, 2017

Human-Centered Computing Faculty Search Committee, 2016

Internet Economics Faculty Search Committee, 2015

Annual Performance Review Committee, 2013

Social Computing Faculty Search Committee, 2012

ICTD/Agricultural Economics Faculty Search Committee, 2013

ICTD/Agricultural Economics Faculty Search Committee, 2012

Invited Judge, MIS Ph.D. Research Symposium, 2015

INDUSTRY RESEARCH EMPLOYMENT

2007 Intel Research, Berkeley, CA
Research Intern

2006 Microsoft Research, Cambridge, United Kingdom
Research Intern, Socio-Digital Systems Group

PROFESSIONAL EMPLOYMENT/INTERNSHIPS

2009-present IslamTech LLC, Atlanta, GA
Co-Founder, Chief Design Officer,

2004 Intel Corporation, Hillsboro, OR
Design Research Intern, User-Centered Design Group

2003 S.C. Johnson & Son, Inc., Racine, WI
Design Research Intern, Consumer and Product Insights Group

DESIGN PATENTS

2003 “Container,” U.S. Patent number: D484365, Issue date: December 30. Assignee: Libbey Glass Inc.

2002 “Goblet,” U.S. Patent number: D460323, Issue date: July 16. Assignee: Libbey Glass Inc.

“Glass,” U.S. Patent number: D456214, Issue date: April 30. Assignee: Libbey Glass Inc.

“Stem for an article of stemware,” U.S. Patent number: D453282, Issue date: February 5. Assignee: Libbey Glass Inc.

2001 “Glass,” U.S. Patent number: D451346, Issue date: December 4. Assignee: Libbey Glass Inc.

“Glass,” U.S. Patent number: D462238, Issue date: September 3. Assignee: Libbey Glass Inc.

“Baking Dish,” U.S. Patent number: D441598, Issue date: May 8. Assignee: Libbey Glass Inc.

“Baking Dish,” U.S. Patent number: D441597, Issue date: May 15. Assignee: Libbey Glass Inc.

“Baking Dish,” U.S. Patent number: D442019, Issue date: May 8. Assignee: Libbey Glass Inc.

“Baking Dish,” U.S. Patent number: D442425, Issue date: May 22. Assignee: Libbey Glass Inc.

2000 “Glass,” U.S. Patent number: D424377, Issue date: May 9. Assignee: Libbey Glass Inc.

INVITED WORKSHOPS AND DOCTORAL CONSORTIUM PARTICIPATION

2018 “Consortium for the Science of Socio-Technical Systems (CSST) Research Institute,” NSF
Sponsored Workshop, Ann Arbor, MI

2011 “Consortium for the Science of Socio-Technical Systems (CSST) Summer Research Institute,” NSF
Sponsored Workshop, Captiva Island, FL

“Slow Down, You Move Too Fast”: Rethinking the Culture of Busyness and IT, NSF Sponsored
Workshop, University of Washington, Seattle, WA

2010 “Computing at the Margins,” NSF Sponsored Workshop, Georgia Tech, Atlanta, GA

2008 “The Discipline of Design,” NSF Sponsored Workshop, University of Michigan, Ann Arbor, MI

SELECTED PRESS

2016 “Next Billion People Online Will Get Odd Versions of the Internet.” *New Scientist*, February 3,
2016. <https://www.newscientist.com/article/2075978-next-billion-people-online-will-get-odd-versions-of-the-internet/>

2013 “Facebook Is Being Redefined by Its Developing World Users.” *MIT Technology Review*, July 22.
<http://www.technologyreview.com/view/517371/facebook-is-being-redefined-by-its-developing-world-users/>

- 2010 “A CI Fellow’s Perspective: “Becoming a Better Researcher.” *The Computing Community Consortium Blog*, March 31, 2010. <http://www.cccb.org/2011/03/31/a-cifellows-perspective-becoming-a-better-researcher/>
- 2009 “Time to Pray? Better Check Your Phone.” *DISCOVER: Science, Technology, and The Future*, April 7. <http://blogs.discovermagazine.com/discoblog/2009/04/07/time-to-pray-better-check-your-phone/>
- “Sun Dial -Mobile Phone App Alerts Muslims About Prayer Times.” *Scientific blogging*, April 5. http://www.scientificblogging.com/news_releases/sun_dial_mobile_phone_app_alerts_muslims_about_prayer_times
- “Mobile Phone Application “Mobile Phone Application Reminds Muslims When to Pray,” *PBA Online*, the website of Public Broadcasting Atlanta, online interview, April 7