

**Melissa R. Densmore (Ho)**

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#### UNIVERSITY ACTIVITIES

**University of Cape Town**, South Africa Aug 2014 – Present  
**Senior Lecturer, Department of Computer Science**

Member, UCT Centre in Information and Communications  
Technologies for Development (ICT4D)

Coordinator, HPI Research School on CS for Africa

Member, Telkom Centre of Excellence in Broadband  
Networks and Applications

Member, Faculty of Science Research Ethics and Library  
Committees

Member, Technology Innovation Agency Seed Fund  
Steering Committee

**Research** in ICTD, Human-Computer Interaction, and  
Networking

**National Research Foundation Rating: Y1**

**Designing for the First Thousand Days** – using co-  
design to investigate implications for the design of  
information technologies for and with bandwidth-  
constrained parents of infants and toddlers.

**Inethi Community Wireless Co-Design** – partnering with  
community members to co-create new interactions  
enabled by localized wireless infrastructure for  
townships and other communities in Cape Town.

**Resources and Inclusion in Development** – developing  
deeper understandings of ways in which access to  
resources and identity affect learning, participation and  
inclusion in ICT-based development initiatives.

#### **Teaching**

Mobile Design and Development (2<sup>nd</sup> yr); Advanced  
Software Development (3<sup>rd</sup> yr); Postgraduate Research  
Methods; Software Engineering (MSc IT); Human  
Computer Interaction (MSc IT, Honours, Masters);  
Intro to ICT4D (Masters);  
Course Convenor for Conversion Masters in Information  
Technology

<b>Postgraduate Students</b>	<b>Degree</b>	<b>Topic/Project</b>	<b>Year</b>
<b>June Jian</b> Present	MSc IT	Co-Design	2019 –
<b>Ntsako Mgiba</b> Present	MSc IT	mobile design	2019 –
<b>Sarah Dsane-Nsor</b> Present	PhD	Inethi (health)	2019 –
<b>Sarina Till</b> 2019	MSc IT	mobile security	2018 –
<b>Hafeni Mthoko</b> 2019	Postdoc	Inethi (social)	2018 –
<b>Natasha Zlobinsky</b> (wireless)	(2 <sup>nd</sup> w/DJ) PhD 2017 – Present	Inethi	

<b>Christine Wanjiru Mburu</b>	PhD	Design for
NICU	2017 - Present	
<b>Chelsea-Joy Wardle</b>	MSc CS	Design for
Mothers	2017 - 2019	
<b>Michael Graaf</b>	MPhil IT	Wikipedia
	2017 - 2018	
<b>Augustine Takyi</b> (1st w/DJ)	PhD	Inethi
(security)	2016 - Present	
<b>Amreesh Phokeer</b> (2nd w/DJ)	PhD	Inethi
(architecture)	2016 - Present	
<b>Grace Jegede</b>	MSc CS	Co-Design
	2016 - Present	
<b>Magdalene Lamola</b> (2nd w/DJ)	MSc CS	Inethi
(wireless)	2016 - Present	
<b>Richard Maliwatu</b> (2nd w/DJ)	PhD	Inethi
(wireless)	2015 - Present	
<b>Yamiko Msosa</b> (2nd w/MK)	PhD	Medical
Guidelines	2015 - 2018	
<b>Ntwa Katule</b> (1st w/UR)	PhD	intermediated health 2014 -
<b>Josiah Chavula</b> (2nd w/HS)	PhD	African
NRENS	2014 - 2017	
<b>'Maletsabisa Molapo</b>	PhD	Co-Design
	2014 - 2018	

indicated students are co-supervised with David Johnson (DJ), Maria Keet (MK), Hussein Suleman (HS) and Ulrike Rivett (UR)

#### External Examinations and Dissertation Committees

<b>Lindokhule Sindiso Duma</b>	MSc CS	UWC, South Africa
	2017	
<b>Ariel Schwartz</b>	PhD	UT Austin, USA
<b>Genevieve Chang</b>	MSc IT	UCT, South Africa
		2015

#### EDUCATION

**University of California, Berkeley** Aug 2005 - May 2012

PhD in Information, Management, and Systems

*Research Interests: Human-Computer Interaction for Development, Health Informatics, Mixed Methods Research, Mobile Technology for Development*

Thesis Title: The Evolving Braid: An Ethnography of Technology Change in Developing Regions

Committee:

AnnaLee Saxenian, co-chair (Dean, School of Information)  
John Chuang, co-chair (School of Information)  
Eric Brewer (Computer Science Division)  
Jenna Burrell (School of Information)

**University College London, United Kingdom** Sept 2002 - Sept 2003

M.Sc. Data Communications, Networks, and Distributed Systems

Thesis Title: Improving Resource Consumption for Epidemic Routing in Intermittently Connected Networks

Advisor: Stephen Hailes (Computer Science)

**Cornell University, Ithaca, New York, United States** Aug 1995 - January 1999

Bachelor in Computer Science

RELATED  
RESEARCH  
EXPERIENCE

**Microsoft Research India**, Bangalore, India Aug 2012 - June 2014

**Postdoctoral Researcher, Technology for Emerging Markets**

*ASHA-Assist*: quantitatively evaluating persuasiveness of mobile phone-based video to flipcharts for maternal health education in Orissa, India. *External Use of Mobiles for Development*: studying organizational policies around non-work use of mobile phones deployed for health data collection. *Mobile Data Collection*: understanding data quality and quantity production in Ugandan health facilities. Interns: Anupama Roy (Nottingham), Ariel Schwartz (University of Texas, Austin)

**Berkeley Institute of Design, UC Berkeley**, California Aug 2011 - June 2012

**Graduate Student Researcher, (PI: John Canny)**

Developed content and research protocol for randomized control trial of persuasive mobile technologies for maternal health education in Orissa, India.

**TIER/ICT4B Group, UC Berkeley**, California Jan 2007 - Aug 2011

**Graduate Student Researcher, (PI: Eric Brewer)**

Conducted mixed methods research on use of new information technologies for health financing in Uganda (18 months fieldwork over three years). Researched use of information technology by doctors in Ghana, co-developed and deployed tele-consultation software (6 months fieldwork over two years). Deployed long-distance wireless links for inter-university library network in Ghana.

**TIER/ICT4B Group, UC Berkeley**, California Jan 2005 - Aug 2005

**Programmer Analyst, (PI: Eric Brewer)**

Conducted fieldwork to develop partnerships and perform needs assessments, deployed long distance wireless links in India, and Wikipedia appliance in Tijuana.

**Intel Research**, Berkeley, California Jan 2004 - Jan 2005  
**Research Intern (PI: Kevin Fall)**

Participated in architecture design for Delay Tolerant Networking, developing a proof-of-concept demonstrating the use of physical transport to collect sensor network data through intermittent wireless links.

RELATED  
RESEARCH  
EXPERIENCE  
(CONT.)

**Xerox Palo Alto Research Center (PARC)** May 1997 - Aug 1997

**Summer Research Intern (Dan Huttenlocher)** May 1998 - June 1998

Developed graphical editor for DigiPaper, a highly compact, token-based image compression format for multi-page documents, offering 7x improvement over TIFF.

RELATED WORK  
EXPERIENCE

**Actional**, Mountain View, CA (contract)      December 2001 - May 2002

**Web Application Design Expert**      August 2002 - September 2002

Successfully led team of 7 developers to build SOAPswitch, a Web services management platform based on J2EE and JSP, and *recipient of Web Services Journal's World Class Product Award*, by coordinating development and timelines of several teams, and integrating this project with the rest of the product. Also employed human-computer interaction design principles to create user interface, described by Web Services Journal as "*clear, unambiguous, and extremely well documented, and one of the best examples of a browser-based wizard I've worked with in a while.*"

**Ensim Corporation**, Sunnyvale, CA      September 1998 - October 2001

**Member of Technical Staff (Software Engineer)**

Co-designed and developed Web Appliance, a three-tiered web hosting control panel used to host over 750,000 domains. Single-handedly ported the web application from Linux to Windows. Also addressed customer issues through live troubleshooting and used feedback to design and evaluate new features.

Led team in development of OpCenter Java, the management console for Ensim's flagship product, ServerXchange, a centralized, automated software distribution and server monitoring solution used by over half of the top ten U.S. Service Providers. (early employee, founded 1998)

Other Projects: Reseller Billing Manager, Network Animation Viewer

TEACHING  
EXPERIENCE

**Mbarara University of Science and Technology, Uganda**

Jan 2009 - June 2009

**Object Oriented Programming in Java - Visiting Lecturer**

\*0 Developed and taught course on OOP in Java for 225 first-year undergraduates in bachelors programs on information technology, computer science, and computer engineering.

\*1 Evaluated programming assignments, group work, and exams. Encouraged development of presentation and writing skills.

**UC Berkeley School of Information**      Aug 2005 - Dec 2005

**Distributed Computing Applications and Infrastructure - Reading Tutor**

\*2 Developed, tested and graded assignments, held office hours.

**Goldsmiths College**

Jan 2003 - March 2003

**Software Engineering - Visiting Tutor**

\*3 Developed lessons to complement taught lectures in Object Oriented Design, UML and Rational Unified Process to undergraduate students.

\*0 Devised milestones and guidelines for development of

software engineering project in the classroom context.  
Evaluated, commented on, and graded student work.

**Cornell University**, Ithaca, NY September 1996 - December 1998

**Structure and Interpretation of Computer Programs - Undergrad TA**

- \*1 Aided professors in teaching a computer science course targeted to first- and second-year students.
- \*2 Taught bi-weekly recitations. Tutored students individually during office hours and dealt with disciplinary issues as necessary.
- \*3 Provided software support for Java-based Dylan (Object-oriented Scheme) interpreter. Ensured cross-platform compatibility on MacOS, Windows, and Unix machines.
- \*4 Worked with course staff to write and grade problem sets and exams.

TEACHING  
EXPERIENCE  
(CONT)

**Cornell University**, Ithaca, NY September 1998 - December 1998

**Transition to Java - Undergraduate Teaching Assistant**

- \*5 Collaborated to design and teach Java programming course to students with existing understanding of object-oriented and structured programming.

JOURNAL  
PUBLICATIONS

**A review of perspectives and challenges for**

**international development in information and**

**communications technologies.** J. Abdelnour-Nocera and M. Densmore. Annals of the International Communication Association. Vol. 41, Iss 3-4, 2017.

**Human-Computer Interaction for Development: The**

**Past, Present and Future.** M. R. Ho, T. N. Smyth, M.

Kam, and A. Dearden. In Information Technology and International Development (ITID), Vol. 5, No. 4. Dec. 2009.

**Stories from the Field: Reflections on HCI4D**

**Experiences.** Y. Anokwa, T. N. Smyth, D. Ramachandran, J. Sherwani, Y. Schwartzman, R. Luk, M. Ho, N. Moraveji, B. Derenzi. In Information Technology and International Development (ITID), Vol. 5, No. 4. Dec 2009.

**The Challenges of Technology Research for Developing**

**Regions.** E. Brewer, M. Demmer, M. Ho, R.J. Honicky, J.

Pal, M. Plauché, and S. Surana. IEEE Pervasive Computing. Volume 5, Number 2, pp. 15-23, April-June 2006.

**The Case for Technology for Developing Regions.** E.

Brewer, M. Demmer, B. Du, K. Fall, M. Ho, M. Kam, S. Nedevschi, J. Pal, R. Patra, and S. Surana. IEEE Computer. Volume 38, Number 6, pp. 25-38, June 2005.

BOOK CHAPTERS

**Human Computer Interaction for Development:**

**Changing HCI to Change the World.** S. M. Dray, A.

Light, A. Dearden, V. Evers, M. Densmore, D.

Ramachandran, M. Kam, G. Marsden, N. Sambasivan, T.

Smyth, D. van Gruenen and N. Winters. The Human-

Computer Interaction Handbook: Fundamentals, Evolving

Technologies, and Emerging Applications. Third Edition

(Human Factors and Ergonomics). Chapter 61, pp. 1369-

1394. Ed. Julie Jacko. CRC Press. 2012.

CONFERENCE  
PAPERS

**A Characterisation of Digital Native Approaches to Mobile Privacy and Security.** C.M. Till, M. Densmore. In Proceedings of SAICSIT 2019. Skukuza, South Africa. September 2019.

**On the potential of Google AMP to promote local content in developing regions.** A Phokeer, J Chavula, D. L. Johnson, M. Densmore, G. Tyson, A. Sathiaselan, and N. Feamster. In Proceedings of IEEE COMSNETS. Bangalore, India. January 2019.

**Co-designing with Mothers and Neonatal Unit Staff: Use of Technology to Support Mothers of Preterm Infants.** C. Mburu, C. Wardle, Y. Joolay, and M. Densmore. In Proceedings of AfriCHI2018. Windhoek, Namibia. December 2018

**Experimental Analysis of 5 GHz WiFi and UHF-TVWS Hybrid Wireless Mesh Network Back-Haul Links.** R. Maliwatu, N Zlobinsky, M Lamola, A Takyi, D.L. Johnson, and M Densmore. In Proceedings of CROWNCOM 2018. January 2019.

**Localize-It: Co-designing a Community-Owned Platform.** M.R. Lorini, M. Densmore, D Johnson, S Hadzic, H Mthoko, G Manuel, M. Waries, and A. van Zyl. In Proceedings of IDIA2018. Gauteng, South Africa. August 2018.

**Exploring Co-Design with Breastfeeding Mothers.** C. Wardle, M. Green, C. Mburu, and M. Densmore. In Proceedings of CHI 2018, **with Honorable Mention.** Montreal, Canada. April 2018.

CONFERENCE  
PAPERS (CONT)

- Performance analysis of a collaborative DSA-based network with malicious nodes.** A Takyi, *M. Densmore*, S Hadzic, and D. Johnson. In Proceedings of Africomm 2017. Lagos, Nigeria.
- Negotiating Access to Information: The Case of the Sri Lankan Cucurbit Farmer.** C. Rajapakse, P. Gamage, A Dearden, M Densmore, and M Walton. In Proceedings of CPRsouth 2017. Yangon, Myanmar.
- Video Consumption Patterns for First Time Smartphone Users: Community Health Workers in Lesotho.** ‘M. Molapo, B. DeRenzi, and *M. Densmore*. In Proc. of CHI2017, *with Honorable Mention*. Denver, Colorado, USA. May 2017.
- Head to head battle of TV White Space and WiFi for connecting developing regions.** D.L. Johnson, N. Zlobinsky, A. Lysko, M. Lamola, S. Hadzic, R. Maliwatu, M. Densmore. In Proc. of Africomm 2016. December 2016
- Designing with Community Health Workers; Enabling Productive Participation through Exploration.** M. Molapo, *M. Densmore* and L. Morie. In Proceedings of the First African Conference for Human-Computer Interaction (AfriCHI2016), *Most Interesting/Provocative Contribution*. Nairobi, Kenya. November 2016.
- A First Look at Mobile Internet Use in Township Communities in South Africa.** A. Phokeer, D. Johnson, *M. Densmore*, and N. Feamster. In Proceedings of ACM DEV 2016. Nairobi, Kenya. November 2016.
- Apps and Skits: Enabling New Forms of Village-To-Clinic Feedback for Rural Health Education.** M. Molapo, *M. Densmore*, L. Morie. In Proceedings of ACM DEV 2016. Nairobi, Kenya. November 2016.
- A Family Health App: Engaging Children to Manage Wellness of Adults.** N. Katule, *M. Densmore*, and U. Rivett. In Proceedings of ACM DEV 2016. Nairobi, Kenya. November 2016.
- Leveraging Intermediated Interactions to Support Utilisation of Personal Health Informatics.** N. Katule, *M. Densmore*, and U. Rivett. In Proc. of ICTD2016. Ann Arbor, Michigan, USA. May 2016.
- Reducing Latency in African NRENS Using Performance-based LISP/SDN Traffic Engineering.** J. Chavula, *M. Densmore*, and H. Suleman. In Proceedings of the 7<sup>th</sup> International Conference on Networks & Communication (NETCOM 2015). Edited by D. Wyld. Sydney, Australia. December 2015.  
DOI:10.5121/csit.2015.51608
- Real Mobiles: Kenyan and Zambian Smallholder Farmers’ Current Attitudes Towards Mobile Phones.** S.P. Wyche, *M. Densmore*, and B.S. Geyer. In Proceedings of the Seventh International Conference on Information and Communications Technologies and Development (ICTD2015). Article 9. ACM. May 2015
- Online Gaming for Crowd-sourcing Phrase-equivalents.** A. Kumaran, *M. Densmore*, and S. Kumar. In Proc. of the 25<sup>th</sup> International Conference on Computational

SHORT  
CONFERENCE  
PAPERS/NOTES

**Characterisation of Clinical Practice Guideline Changes.**

Y. Msosa, C.M. Keet, and *M. Densmore*. In Proceedings of BIOSTEC/HEALTHINF2016. Rome, Italy. 248-255. February 2016.

**A road map for wireless mesh routing with DSA. R.**

Maliwatu, N. Zlobinsky, *M. Densmore*, and D.L. Johnson. In Proc. of SATNAC2016. September 2016

**Collaborative neighbor monitoring in TV white space networks.** A. Takyi, *M. Densmore*, D.L. Johnson. In Proc. of SATNAC2016. September 2016

**How to choose a mobile phone for an ICT4D project.** M. Molapo and *M. Densmore*. In Proceedings of the Seventh International Conference on Information and Communications Technologies and Development (ICTD2015). Article 48. ACM. May 2015 (peer-reviewed)

**Towards and architectural design of a guideline-driven EMR system: a contextual inquiry of Malawi.** Y.J.

Msosa, *M. Densmore*, and C.M. Keet. In Proceedings of the Seventh International Conference on Information and Communications Technologies and Development (ICTD2015). Article 49. ACM. May 2015 (peer-reviewed)

**Understanding Jugaad: ICTD and the tensions of appropriation, innovation and utility.** N. Rangaswamy and *M. Densmore*. In Proceedings of the Sixth International Conference on Information and Communications Technologies and Development: Notes (ICTD2013). Vol. 2 (pp. 120-123). ACM. December 2013. (peer-reviewed)

**Balancing burden and benefit: non-prescribed use of employer-issued mobile devices.** A. Schwartz, M. Bhavsar, E. Cutrell, J. Donner, and *M. Densmore*. In Proceedings of ICTD2013 (Notes). Vol. 2 (pp. 140-143). ACM. December 2013. (peer-reviewed)

**Experiences with Bulk SMS for Health Financing in Uganda.** *M. Densmore*. In Extended Abstracts of CHI 2012, May 2012. **(juried)**

**Cultural Divides in the Construction of Socioprofessional Medical Practice.** Rowena Luk, *Melissa Ho*, and Paul Aoki. Annual Meeting of the Society for Social Studies of Science (4S 2008), Rotterdam, August 2008.

**[A Framework for Designing Teleconsultation Systems in Africa.](#)** Rowena L. Luk, *Melissa Ho* and Paul Aoki. Proc. Int'l Conf. on Health Informatics in Africa (HELINA 2007), Bamako, Mali, 28(1-5). Jan. 2007.



TECHNICAL  
REPORTS AND  
WORKING PAPERS

**Resources, Learning and Inclusion in Open**

**Development.** M. Walton, A. Dearden, and *M. Densmore*. Singapore Internet Research Centre (SIRCA White Paper 2).

[http://www.sirca.org.sg/wp-content/uploads/2015/08/Walton\\_WhitePaper.pdf](http://www.sirca.org.sg/wp-content/uploads/2015/08/Walton_WhitePaper.pdf)

**Optimizing Mobile Deployments.** A. Schwartz, M. Bhasvar, E. Cutrell, J. Donner, and *M. Densmore*. Microsoft Research Technical Report: MSR-TR-2014-45. April 1, 2014.

**Implementing Delay Tolerant Networking.** Michael Demmer, Eric Brewer, Kevin Fall, Sushant Jain, *Melissa Ho*, Rabin Patra. Intel Research Technical Report: IRB-TR-04-020, Dec. 28, 2004.

WORKSHOP  
PAPERS AND  
POSTERS

**Using Co-Design to Discern and Overcome Barriers to Employment in Cape Town.** G. Jegede and *M. Densmore*. In ACM DEV 2016. Nairobi, Kenya. November 2016.

**The Case of the Interdisciplinary Researcher: Using Mixed Methods to Observe ICT in Healthcare in Uganda.** *Melissa R. Densmore*. In Qual Meets Quant Workshop held at ICTD2010 (QMQ2010). December 2010

**Communication and computing in health facilities of southwest Uganda.** *Melissa R. Ho*. In Proceedings of CHI'10 Extended Abstracts (Poster). ACM, New York, NY, USA, 4207-4212. April 2010.

**[Re-assessing Long Distance Wireless for West](#)**

**[Africa](#).** *Melissa R. Ho* and RJ Honicky. Workshop on Wireless Broadband Access for Communities and Rural Developing Regions (WIRELESS4D). Karlstad, Sweden. December 2008

**[Applying User-Centered Design to Telemedicine](#).** *Melissa Ho*, Rowena Luk, Paul M. Aoki. CHI 2007 Workshop on User Centered Design for International Development, Apr. 2007.

**Rethinking Wireless in the Developing World.** L. Subramanian, S. Surana, R. Patra, S. Nedeveschi, *M. Ho*, E. Brewer and A. Sheth. Hot Topics in Networks (HotNets-V), Nov 2006.

**Poster: Delay Tolerant Networking for Sensor Networks.** *M. Ho* and K. Fall. Proceedings of the First IEEE Conference on Sensor and Ad Hoc Communications and Networking (SECON). 2004. (invited)

ORGANIZED  
WORKSHOPS AND  
PANELS

**Smart and Inclusive Networks: Innovating for South African Infrastructures.** Panelist at Innovation Bridge/Science Forum SA. Pretoria, South Africa. December 2019.

**Artful Integrations of Infrastructures by Community-based Telecoms.** At Communities and Technologies 2019, co-convened in Cape Town, South Africa. N Bidwell, M Densmore, A. van Zyl, S Belur, and N Pace. June 2019.

**Research Ethics for HCI: A Roundtable Discussion.** At CHI2018. C Feisler, J Hancock, A Bruckman, M Muller, C Munteanu, and M Densmore. April 2018.

**Ethics in ICTD.** Open Session at **ICTD2017**. D Kleine. A Dearden, M. Densmore, and B. Chaudhury. November 2017

**Community Wireless.** Workshop at **ICTD2017**. S. Hadzic, K. Ali, K. Heimerl, S Hassan, D. Johnson, A. Phokeer, M. Densmore. November 2017.

**TVWS/Cognitive Radio Workshop.** Joint EE/CS workshop at UCT. S. Hadzic, A. Mishra, D. Johnson, and M. Densmore. 9 April 2017.

**Co-Design Across Borders.** Special Interest Group at **CHI2017**. I Holeman, E Blake, M Densmore, 'M Molapo, F Ssozi, E Goodman, I Thies, and S Wyche. Denver, Colorado, USA. May 8, 2017.

**Research Ethics in HCI: A Town Hall Meeting.** At CHI2017. C Frauenberger, A Bruckman, C Munteanu, M Densmore, and J Waycott. April 2017.

**Workshop on Ethics in ICTD.** Hosted by the UCT Centre in ICTD, UWC BANG, and ICTDEVers. A. Dearden, *M Densmore*, C Stanley, and B Tucker. Cape Town, South Africa. April 20, 2017.

**Mentorship Panel.** At **AfriCHI2016**. H Twinomuziri and M Densmore. November 2016.

**Development Consortium: HCI Across Borders.** Workshop at **CHI2016**. N. Kumar, S. Dray, A. Dearden, N. Dell, *M. Densmore*, et al. San Jose, California, USA. May 7-8, 2016.

**Workshop on Learning from Failure.** Hosted by the UCT Centre in ICT4D. *M. Densmore*, E. Blake, and M. Walton. Cape Town, South Africa. January 20, 2015

**Human Computer Interaction for Development.** Special Interest Group at **CHI2013**. B. Al-Ani, *M. Densmore*, E. Cutrell, A. Dearden, R. Grinter, J. C. Thomas, M. Kam, and A. Peters. Paris, France. April 29, 2013

**FAILFaire@ICTD2012.** Open Session at **ICTD2012**. *M. Densmore*, P. C. Rogers, W. Vota, and K. Verclas. Atlanta, Georgia, USA. March 12, 2012.

**ICTD Curriculum: A Conversation on the Challenges of Teaching Across the Academic Spectrum.** Workshop at **ICTD2009**. R. Anderson, S.R. Sterling, *M. Ho*, J. Weber, R. Anderson, and J. Bennett. April 17, 2009.

ORGANIZED  
WORKSHOPS AND  
PANELS (CONT.)

**Human-centered Computing in International**

**Development.** Workshop at **CHI2009**. N. Sambasivan, *M. Ho*, M.Kam, N. Kodagoda, S. Dray, J. C. Thomas, A. Light, and K. Toyama. In Proceedings CHI'09 Extended Abstracts. April 2009. **Workshop on Technology and Infrastructure for Emerging Regions (TIER).**

University of California, Berkeley. October 17-18, 2008.

**What is Research in ICTD?** Panel at **TIER Workshop**

(Moderator). University of California, Berkeley. October 17, 2008.

**Having Global Impact as a Technical Woman:**

**Information Technology Applied to the Developing World.** R. Anderson, S. R. Sterling, E.Basha and *M. Ho*. Grace Hopper Celebration of Women and Computing. Keystone, Colorado. October 2008.

**Bridging the Divide Between Theory and Practice in ICT for Development.** *M. Ho* and R. Veeraraghavan.

Roundtable at **iConference 2008**. April 2008

TALKS

- Beyond Access: Promoting Local Innovation in Digital Content and Services.** Engineering for Change Virtual Salon: ICT Access and IoT in Low-Resource Settings. November 21, 2019.
- Co-Designing Digital Resources for Bandwidth-Constrained Communities.** University of Melbourne Computer Science Seminar. November 20, 2019
- Minimum Ethical Standards for ICTD Research.** 4<sup>th</sup> Annual Western Cape Human Research Ethics Workshop. Cape Town. October 9, 2019.
- Ethics and Values in Co-Design for Development.** Guest Lecture, Honours ICT4D, University of Western Cape. Cape Town. August 19, 2019
- Design for Strengthening of Bandwidth-Constrained Communities: Moms, Mobiles, and iNethi.** University of Energy and Natural Resources. Ghana. July 7, 2019.  
Koforidua Technical University. Ghana. July 2, 2019.
- 14<sup>th</sup> Annual Symposium on Future Trends in Service-Oriented Computing. Potsdam, Germany, April 11, 2019
- Empowering Moms in Tech to Thrive.** Lightning Women in Tech. Cape Town, South Africa, March 9 2019.
- Women in Energy.** Panel at IEEE PowerAfrica 2018. Cape Town, South Africa. June 26, 2018.
- Technology and Community Development and Rural Connectivity and Open Source: Challenges and Opportunities.** Panels at the OpenCellular Workshop on Open Source Rural Access. Nairobi, Kenya. June 19-20, 2017.
- Co-Design Across Borders.** Opening keynote, 12<sup>th</sup> Annual Symposium on Future Trends in Service-Oriented Computing (Doctoral Symposium). Potsdam, Germany. April 26, 2017.
- Information and Communications Technology for Development: Current Trajectories.** Cambridge University Computing Laboratory. April 25, 2013
- Surveillance, Detection & Prevention: Keeping India healthy through smart diagnostics & devices.** Panelist. BIRAC Grand Challenges Meet: Setting the Future Agenda, New Delhi, India. March 21, 2013
- From Research to Practice.** Innovations with Social Impact, MYRA School of Business, Mysore, India. January 2013
- Mobiles and Rural Healthcare: Applications, Challenges, and Design Strategies.** USID2012, Bangalore, India. October 2012.
- Insurance Innovation in mHealth: Results from a Pilot in Uganda.** mHealth Summit 2010, Washington, DC. November 2010.
- Text Messaging for Management in Uganda Output-Based Voucher Program,** with Ben Bellows. SHOPS/mHealth Alliance Online Conference: Using Mobile Technologies to Improve Family Planning, Maternal Health, and Newborn Services in the Developing World. May 2010.

TALKS (CONT.)

**Communication and Computing in Health Facilities of South-western Uganda.** ICT4D Collective, Royal Holloway, University of London. April 7, 2010.

**Higher Education in South Asia and Sub-Saharan Africa.** Guest Lecture: The Role of Technology in Learning in the 21<sup>st</sup> Century. Carnegie Mellon Human-Computer Interaction Institute (via Skype). Jan 2010.

**Technology and Infrastructure for Emerging Regions.** EpiHandy Workshop. Kampala, Uganda. Dec 5, 2008.

**Mobile Phones, Health Information Management, and Output-Based Aid.** Intel People and Practices Research, Portland, Oregon, USA. November 2008.

**SmartClaims: The context motivating the use of mobile phones to improve output-based aid in Uganda.** American Public Health Association 2008. San Diego, California, USA. October 2008.

**Mobile Phones, Health Information Management, and Output-Based Aid.** TIER Workshop, Berkeley, California, USA. October 2008.

**ICTs and Healthcare Information Management in Uganda.** University of Waterloo. Waterloo, Ontario, Canada July 18, 2008.

**Smartphones and Information Management for Rural Health Care Clinics in Africa.** Blum "Global Development in Action" Student Symposium, Berkeley, California, USA. October 4, 2007.

**Networking in Developing Countries.** Guest Lecture: i250 Computer Based Communications Networks and Systems. University of California, Berkeley, USA. November 5, 2007.

**Disconnected Internet Access for Youth in Tijuana.** Technology and Infrastructure for Emerging Regions Workshop. University of California, Berkeley, California, USA. October 29, 2005.

PRESS RELEASES  
AND NEWS

**Preemie Care App.** 15 January 2020. UCT TV.

<https://www.youtube.com/watch?v=4jW10Go0M3Q>

**Co-Creating a locally relevant web,** by Nadia Krige. 22

Nov 2019. UCT News. <https://www.news.uct.ac.za/article/-2019-11-22-co-creating-a-locally-relevant-web>

**Grooming young tech innovators. Niemah Davids.** 20

June 2019. UCT News. <https://www.news.uct.ac.za/article/-2019-06-20-grooming-young-tech-innovators>

**Empowering communities with digital access, content.**

14 Nov 2019. Spoor & Fisher.

<https://www.spoor.com/en/News/empowering-communities-with-digital-access-content/>

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**National Academies Keck Futures Initiative Announces Winners of the NAKFI Challenge.** 4 Sept 2018. Press Release.

<https://www.nationalacademies.org/news/2018/09/national-academies-keck-futures-initiative-announces-winners-of-the-nakfi-challenge>

PROFESSIONAL  
SERVICE

Journal Reviewer: ITID, Pervasive Computing Journal (Special Issue on ICT4D, 2011)

Conference Reviewer: CHI, CSCW, ICTD

Proposal Reviewer: National Science Foundation

Conference Chairs: AfriCHI2016 (Sponsors, Languages, and Mentoring), ICTD2017 (Open Sessions)

Program Committee: CHI2014, CHI2015, CHI2020, ICTD2013-2017, ICTD2020, ACMDEV 2014-2016, InterSol 2018-2019, ACM COMPASS 2017-2018

Steering Committee: ACM COMPASS

GRANTS AND AWARDS	<p>2018 OpenCellular Telecom Infra Project (US\$25,000)</p> <p>2018 NAKFI Challenge (US\$500,000)</p> <p>2015 Strengthening Information Society Research Capacity Alliance (SIRCA) III on Open Development Grant (US\$16,710)</p> <p>2010 Global Social Venture Competition Social Impact Assessment Award (First Place, US\$5,000)</p> <p>2007-2010 Blum Center for Developing Economies Grant (US\$90,000)</p> <p>2005/06, 2007/08, 2009/10 SIMS Fellowship Recipient - 3 years tuition+stipend</p> <p>2008-2009 Dean's Normative Time Fund Fellowship - 1 year tuition+stipend</p> <p>2008 Grace Hopper Celebration Scholarship Recipient</p> <p>2008 Thomas I. Yamashita Foundations for Change Prize (US\$2,500 Honorarium)</p> <p>2008 UCB Big Ideas Contest: IT for Society (Honorable Mention, US\$1000)</p> <p>2007 UCB Big Ideas Contest: Neglected Diseases (First Place, US\$10,000)</p> <p>2007 UCB Big Ideas Contest: IT for Society (First Place, US\$8,500)</p> <p>2006 UCB Big Ideas Contest: Curriculum Innovation (First Place, US\$4,000)</p> <p>2006 Mayfield Fellow and Team Leader</p> <p>2003 Recipient of the Anvil Prize for Best Masters Project (UCL)</p>
AFFILIATIONS	<p><b>De Novo Group</b>, Founder, Advisory Board Chair 2008 - 2012</p> <p><b>WE CARE Solar</b>, Technical Advisor 2008 - 2014</p> <p><b>Association for Computing Machinery</b>, Member since August 2004</p> <p><b>IEEE</b>, Member 2004 - 2014</p> <p><b>HCI4D Community</b>, Vice-Chair/Chair Elect 2012</p> <p><b>HCI4D Community</b>, Chair 2013 - 2014</p> <p><b>HCI4D Community</b>, Advisory Board since 2014</p> <p><b>SIGCHI Research Ethics Committee</b>, Member since 2016</p> <p><b>Development Implications of Digital Economies (DIODE)</b></p> <p><b>Strategic Research Network</b>, Core Researcher 2016-2018</p> <p><b>ACM SIGCHI Protea Chapter</b>, Chair and Founder since 2018</p>
PROFILES	<p><b>DBLP:</b>  <a href="https://dblp.uni-trier.de/pers/hd/d/Densmore:Melissa">https://dblp.uni-trier.de/pers/hd/d/Densmore:Melissa</a></p> <p><b>Google Scholar:</b> <a href="https://scholar.google.co.za/citations?user=5Bqgw2gAAAAJ&amp;hl=en">https://scholar.google.co.za/citations?user=5Bqgw2gAAAAJ&amp;hl=en</a></p>