

ICTD @ UW CSE

Richard Anderson

October 6, 2015

Gaetano Borriello



GHTC2015 Gaetano Borriello Feet on the Ground Humanitarian Symposium

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Please join us for the **Gaetano Borriello Feet on the Ground Humanitarian Symposium** on Saturday, October 10, 2015 from 1:30 to 6:00 pm at the DoubleTree by Hilton Seattle Airport. The symposium, which will feature talks by researchers and humanitarian leaders who are applying technology solutions to real-world problems, will be held during the Institute of Electrical and Electronics Engineers' Global Humanitarian Technology Conference (GHTC15), October 8-11 in Seattle.



Our friend and colleague, **Gaetano Borriello**, passed away earlier this year. He was a Fellow of the IEEE, a professor of computer science and engineering at the University of Washington, and a recognized leader in the fields of mobile and ubiquitous computing who devoted a significant portion of his career to developing technologies that improve conditions in low-resource settings. He led the development of a suite of open-source mobile data collection tools, known as the Open Data Kit (ODK), that are used by humanitarian programs worldwide to advance public health, human rights, political participation and environmental stewardship. Dr. Borriello demonstrated how research can impact the lives of people around the globe, and the symposium will honor his many contributions.

Jim Jefferies, President of the IEEE USA, will join the symposium to deliver a special announcement, which will be followed by a series of keynote presentations and technical talks by experts in developing and applying technologies to address humanitarian challenges. Featured speakers will include:

John Bennett, Associate Vice Chancellor for Innovation Initiatives, University of Colorado, Denver and past president, Engineers Without Borders

Eric Brewer, Professor, Computer Science Division, University of California, Berkeley

Kiersten Israel-Ballard, Technical Officer, Maternal and Child Health/Nutrition, PATH

David Thau, Manager of Developer Relations, Google Earth Engine & Google Earth Outreach

Heather Underwood, Associate Director, Inworks and Assistant Professor, University of Colorado, Denver

Lorenzo Violante Ruiz, Learning & Innovation Coordinator, International Federation of Red Cross and Red Crescent Societies

Roy Want, Research Scientist, Google

In addition, a panel of researchers who worked with Dr. Borriello on the Open Data Kit will offer their perspectives on its role in aiding humanitarian work around the globe, featuring **Waylon Brunette**, Ph.D. Candidate, Computer Science & Engineering, University of Washington; **Nicola Dell**, Assistant Professor, Computing & Information Sciences, Cornell University; and **Carl Hartung**, Co-founder & CTO, Nafundi, and **Sam Sudar**, Ph.D. candidate in Computer Science & Engineering, University of Washington.



Year in review

Alums



Nicki Dell
Cornell Tech

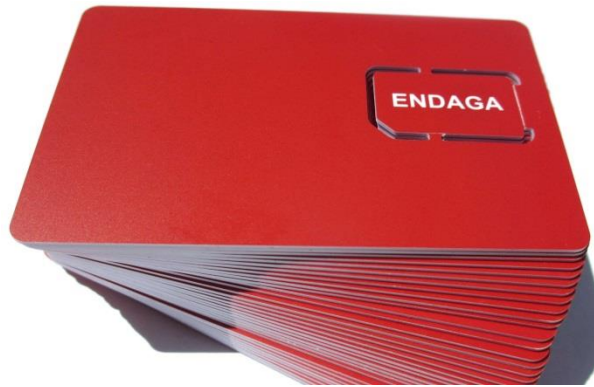
Neha Kumar
Georgia Tech



Papers

- [VCT15] Aditya Vashistha, Ed Cutrell, and William Thies, "Increasing the Reach of Snowball Sampling: The Impact of Fixed versus Lottery Incentives", **CSCW'15**
- [DPK+15] Nicola Dell, Trevor Pernier, Neha Kumar, Mitchell Lee, Rachel Powers, and Gaetano Boriello. 2015. Paper-Digital Workflows in Global Development Organizations. **CSCW'15**. ACM, New York, NY, USA, 1659-1669.
- [DDB15] Dell, N., D'Silva, K., and Boriello, G. Mobile Touch-Free Interaction for Global Health. 2015. **HotMobile '15**.
- [KR15] Neha Kumar and Richard J. Anderson. 2015. Mobile Phones for Maternal Health in Rural India. **CHI '15**. ACM, New York, NY, USA, 427-436.
- [PDD+15] Trevor Pernier, Nicola Dell, Brian DeRenzi, Richard Anderson, John Kinuthia, Jennifer Unger, and Grace John-Stewart. 2015. Engaging Pregnant Women in Kenya with a Hybrid Computer-Human SMS Communication System. **CHI '15**. 1429-1438.
- [VCBT15] Aditya Vashistha, Ed Cutrell, Gaetano Boriello, and William Thies, "Sangeet Swara: A Community-Moderated Voice Forum in Rural India", **CHI'15**, April 2015, Seoul, Korea.
- [KPD+15] Neha Kumar, Trevor Pernier, Michelle Desmond, Kiersten Israel-Ballard, Vikrant Kumar, Sudip Mahapatra, Anil Mishra, Shreya Agarwal, Rikin Gandhi, Pallavi Lal, and Richard Anderson. 2015. Projecting health: community-led video education for maternal health. **ICTD '15**. ACM, New York, NY, USA.
- [PPSR15] Pervaiz, Fahad, Trevor Pernier, Sompasong Phongphila, and Richard Anderson. "User errors in SMS based reporting systems." **ICTD'15** (Note) p. 55. ACM, 2015
- [PNA15] Pervaiz, F., Newland, S., Anderson, R., Data Specification for Information Systems for the Immunization Cold Chain, Proceedings of the 13th International Conference on Social Implications of Computers in Developing Countries, **IFIP, Negombo, Sri Lanka**, May 2015.
- [VVCT15] Aditya Vashistha, Rajan Vaish, Ed Cutrell, and William Thies, "The Whodunit Challenge: Mobilizing the Crowd in India", **INTERACT 2015**, September 2015, Bamberg, Germany.
- [VCDA15] Aditya Vashistha, Ed Cutrell, Nicola Dell, and Richard Anderson, "Social Media Platforms for Low-Income Blind People in India", **ASSETS 2015**, October 2015, Lisbon, Portugal.
- [PDA15] Pernier, T., DeRenzi, B., Anderson, R., USSD: The Third Universal App, **DEV 6**, London, UK, 2015
- [SA15] Sudar, S., Anderson, R., DUCES: A Framework for Characterizing and Simplifying Mobile Deployments in Low-Resource Settings, **DEV 6**, London, UK, 2015
- [WVL+15] Brunette, W., Vigil, M., Levani, S., Pervaiz, F., Anderson, R., Optimizing Mobile Application Communication for Challenged Network Environments, **DEV 6**, London, UK, 2015
- [KBD+15] Kumar, N., Brunette, W., Dell, N., Pernier, T., Kolko, B., Boriello, G., Anderson, R., Understanding sociotechnical implications of mobile health deployments in India, Kenya, and Zimbabwe, **ITID**, 11(4), 2015
- [GDB+16] Ginsburg, A., Delarosa, J., Brunette, W., Levani, S., Sundt, M., Larson, C., Agyemang, C., Newton, S., Boriello, G., Anderson, R., mPneumonia: Development of an innovative mHealth Application for Diagnosing and Treating Childhood Pneumonia in Low-Resource Settings, To Appear, **PLoSOne**

Joining September 2016



Open Data Kit

1. Build form

The screenshot shows the Open Data Kit form builder interface. It includes a menu bar with 'File', 'Edit', 'View', and 'Help'. The main area displays a form titled 'Untitled Form' with several fields: 'First name' (text), 'Please record your location' (location), 'When is your birthday?' (date), and 'Please take a picture of yourself' (image). A 'Properties' panel on the right allows users to configure each field, including setting the data name, caption text, hint, and kind (text, numeric, date, location, media). At the bottom, there are buttons for 'Add new' and 'Select Multiple'.

2. Collect data



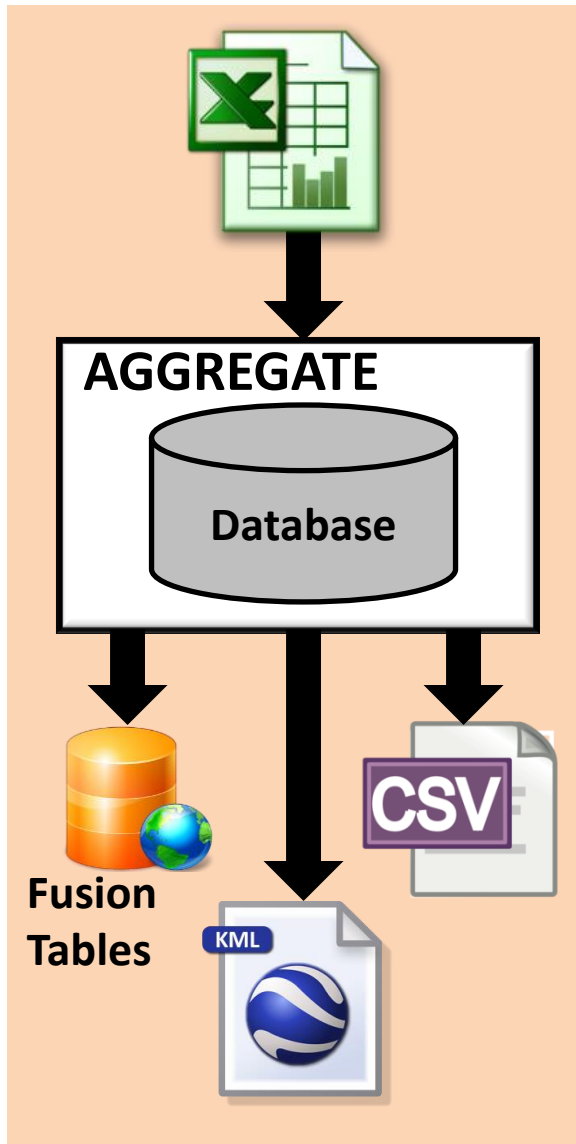
3. Aggregate results



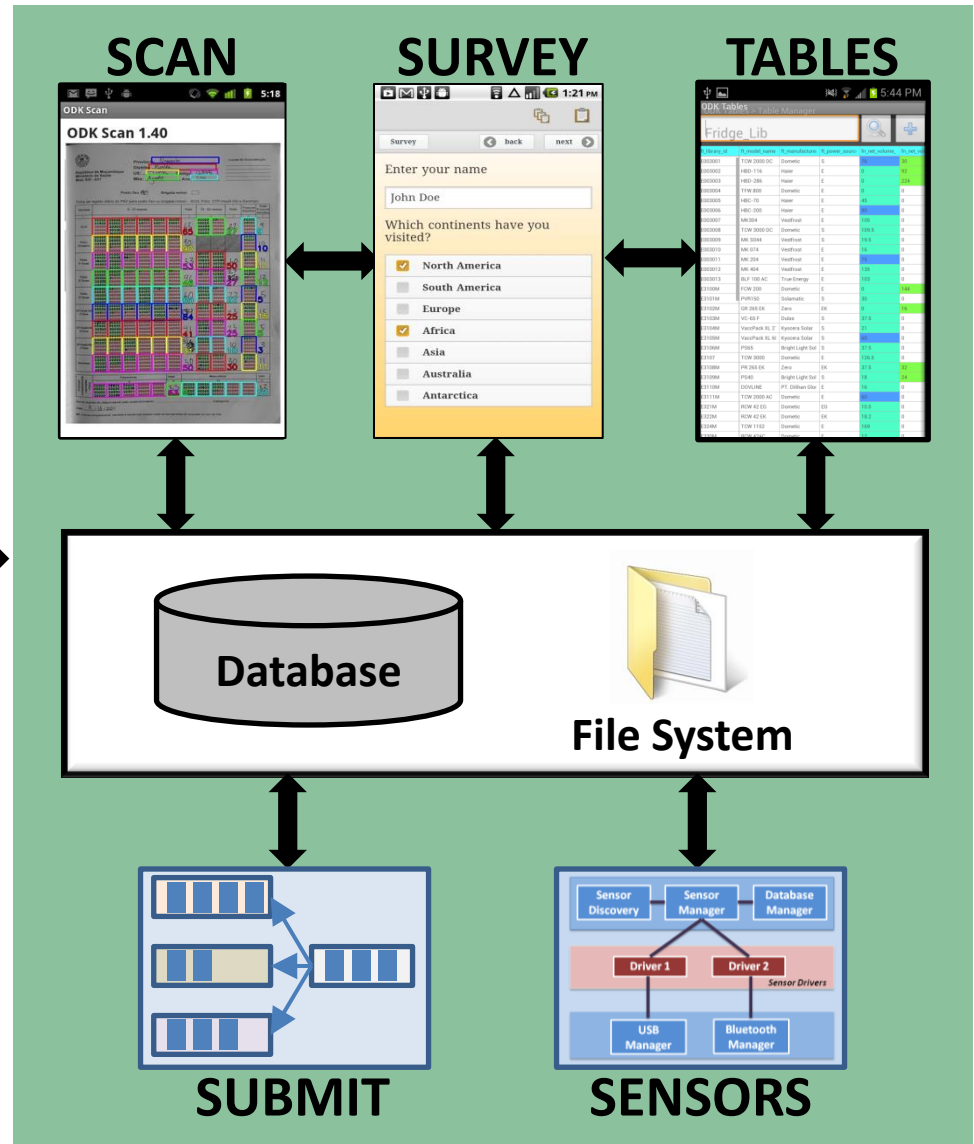
<http://opendatakit.org>

ODK 2.0 Architecture

CLOUD



MOBILE DEVICE



Projecting Health



Projecting Health 2.0



Areas of focus

- Security
- Messaging
- Voice platforms
- Working with Data
- Digital Financial Services

Partnership with PATH



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