

Joshua Blumenstock

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Education

- **University of California at Berkeley**

Ph.D. candidate, School of Information, 2012 (anticipated).

M.A. Economics, 2010.

Dissertation title: “Essays on the Economic Impacts of Mobile Phones in sub-Saharan Africa”

Fields: *Development Economics, Political Economics*

References (Economics): Edward Miguel, Marcel Fafchamps, Alain de Janvry, Frederico Finan

References (Information): AnnaLee Saxenian, Tapan Parikh, John Chuang

- **Wesleyan University**

B.A. Computer Science, B.A. Physics, 2003. *Phi Beta Kappa*

High departmental honors in Computer Science and Physics

Job Market Paper

- “Charity and Reciprocity in Mobile Phone-Based Giving: Evidence from Rwanda”, *Center for the Study of African Economies Working Paper WPS/2011-19*.

Winner, *O.S. Braunstein Prize (Best Student Paper)*, Pacific Telecommunications Council.

Presented at Northeast Universities Development Conference, Pacific Development Conference, Midwest International Economic Development Conference, Oxford CSAE Annual Conference.

Recent Publications

- Blumenstock, J.E. & Eagle, N. (2012, in press). Divided We Call: Disparities in Access and Use of Mobile Phones in Rwanda. *Information Technology and International Development*.
- Blumenstock, J.E. (2012). “Inferring Patterns of Internal Migration from Mobile Phone Call Records,” *Information Technology for Development*, 18:2, pp. 1-19.
- Mehrotra, A., Mohan, M., Nguyen, A., & Blumenstock, J.E. (2012, forthcoming). The Role of Gender in Mobile Phone Use: Quantitative Evidence from Rwanda. To appear at: *The 5th International Conference on Information and Communication Technologies and Development*, Atlanta, GA.
- Blumenstock, J.E. & Eagle, N. (2011). Mobile Divides: Gender, Socioeconomic Status, and Mobile Phone Use in Rwanda. *Proceedings of the 4th IEEE/ACM International Conference on Information and Communication Technologies and Development*. ACM Press (14.1% Acceptance).
- Blumenstock, J.E. (2011). Using Mobile Phone Data to Measure the Ties Between Nations. *Proceedings of the 2011 iConference*. ACM Press, pp. 195-202.
- Blumenstock, J.E., Shen, Y., & Eagle, N. (2010). A Method for Estimating the Relationship Between Phone Use and Wealth. *Proceedings of the QualMeetsQuant Workshop at ICTD*.
- Blumenstock, J.E., Gillick, D., & Eagle, N. (2010). Who’s Calling? Demographics of Mobile Phone Use in Rwanda. *2010 AAAI Spring Symposium Series*. AAAI Publications, pp. 116-117.

Honors, Grants, and Fellowships

2011	O.S. Braunstein Prize for Best Student Paper, Pacific Telecommunications Council
2011	Doctoral Dissertation Improvement Grant, National Science Foundation (\$11,500 grant)
2011	Networks, Electronic Commerce, and Telecommunications Institute, NYU (\$4,500 grant)
2010	International Growth Centre, United Kingdom (\$70,000 grant, joint w/M.Fafchamps & N.Eagle)
2010	Institute for Money, Technology and Financial Inclusion, U.C. Irvine (\$16,500 grant)
2007-2009	Berkeley Graduate Fellowship, University of California at Berkeley
2009	ICT for Agriculture Grant, Bill and Melinda Gates Foundation (\$3,500 grant)
2009	Dean's Normative Time Fellowship, University of California, Berkeley
2009	Cultural Politics of Technology Grant, Intel Research (\$5,000 grant)
2006	William V. Power Award, University of California at Berkeley
2006	2nd place, CRV/Haas School of Business Venture Capital Competition
2003-2004	Watson Fellowship, Thomas J. Watson Foundation (\$22,000 fellowship)
2003	Phi Beta Kappa, Wesleyan University
2003	Senior Prize in Computer Science, Wesleyan University
2000	Johnston Prize in Physics, Wesleyan University

Teaching Experience

- **Global Poverty and Impact Evaluation (Econ 174/274)**
Graduate Student Instructor (TA) for Professor Frederico Finan
Evaluation for "Overall Teaching Effectiveness:" 5.56 (47 responses; 1=poor, 4=avg, 7=excellent)
- **Undergraduate Research Apprenticeship Program (Info 197)**
Head mentor to 4-7 undergraduate research assistants per semester
Evaluation for "Overall Teaching Effectiveness:" 6.72 (18 responses; 1=poor, 4=avg, 7=excellent)
- **Survey and Research Design and Methods**
Instructor to 20 research assistants at the Kigali Institute of Science and Technology in Rwanda

Older Publications

- Blumenstock, J.E. (2008). Size Matters: Word Count as a Measure of Quality on Wikipedia. *Proc. of the 17th Intl. Conf. on the World Wide Web* (pp. 1095-1096). ACM Press (11.7% Acceptance).
- Gordon, GJ, RV Jensen, LL Hsiao, SR Gullans, JE Blumenstock, WG Richards, MT Jaklitsch, DJ Sugarbaker, and R Bueno (2003). Using Gene Expression Ratios to Predict Outcome Among Patients With Mesothelioma. *Journal of the National Cancer Institute*, 95(8), 598-605.
- Gordon, GJ, RV Jensen, LL Hsiao, SR Gullans, JE Blumenstock, S Ramaswamy, WG Richards, DJ Sugarbaker, and R Bueno (2002). Translation of Microarray Data Into Clinically Relevant Cancer Diagnostic Tests Using Gene Expression Ratios in Lung Cancer and Mesothelioma. *Cancer Research*, 62(17), 4963-4967.
- Fryer, RM, J Randall, T Yoshida, LL Hsiao, JE Blumenstock, KE Jensen, T Dimofte, RV Jensen, and SR Gullans (2002). Global Analysis of Gene Expression: Methods, Interpretation, and Pitfalls. *Experimental Nephrology*, 10(2), 64-74.
- Hsiao, LL, RV Jensen, T Yoshida, KE Clark, JE Blumenstock, and SR Gullans (2002). Correcting for Signal Errors in the Analysis of Microarray Data. *Biotechniques*, 32 (2), 330-337.
- Gemmell, J, R Lueder, JE Blumenstock, E Solomon, and G Bell (2003). Telephone, Television and Radio in the Home of the Future. *Internet and Multimedia Systems and Applications*, 2003, 263-268.

Other Information

Citizenship: U.S.A.
Languages: English (Native); Spanish (Fluent); Mandarin and Portuguese (Competent).
Reviewer: Information Technology and International Development; Information Technology for Development; IEEE Pervasive Computing Magazine; IEEE/ACM International Conference on Information and Communication Technologies and Development; AAAI Spring Symposium on Artificial Intelligence for Development.
Computer Languages: Expert in R, Stata, C#/C++, Java, PHP, SQL, HTML/CSS.
Proficient in methods for high performance, distributed computing.
Web Engineering: Expert in Windows & Linux systems and administration. Experience managing large clusters of >200 servers running Linux, Apache, MySQL, etc.