

Joshua Blumenstock

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Education

- **University of California at Berkeley.** September 2006-*present*
Ph.D. candidate, School of Information
M.A. candidate, Department of Economics
Areas of Concentration: Development economics, Political economics, and Machine learning.
- **Wesleyan University.** 1998-2003
B.A. Physics and Computer Science, *Phi Beta Kappa*
High departmental honors in Physics
High departmental honors in Computer Science
Honors Thesis: "Mining Clusters for Knowledge: Finding Algorithm-Independent Groups in Microarray Data"

Honors, Grants, and Fellowships

2011	Doctoral Dissertation Improvement Grant, National Science Foundation
2010	Grant recipient, Institute for Money, Technology and Financial Inclusion at U.C. Irvine
2006-2010	Berkeley Graduate Fellowship, University of California at Berkeley
2009	ICT for Agriculture Grant, Bill and Melinda Gates Foundation
2009	Dean's Normative Time Fellowship, University of California, Berkeley
2009	Cultural Politics of Technology Grant, Intel Research
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
2003	Phi Beta Kappa, Wesleyan University
2003	Senior Prize in Computer Science, Wesleyan University
2000	Johnston Prize in Physics, Wesleyan University

Research Positions

- **Thomas J. Watson Foundation, Fellow, 2003-2004**
Project: "Outreach or Evangelism? Integrating Technology into Unexposed Communities"
Awarded \$22,000 grant to conduct qualitative research on access to information and communication technologies in China, South Africa, Cape Verde, Argentina, Brazil and Chile.
- **Microsoft Research, Intern, 2002**
MyLifeBits project, supervised by Jim Gray and Gordon Bell
Designed and prototyped novel databases that supported hyperlinks, annotations, reports, saved queries, pivoting, clustering, and fast search.

- **Harvard Institutes of Medicine**, *Research Associate*, 2001
Supervised by Roderick Jensen and Steve Gullans
Developed quantitative methods for analyzing DNA microarrays. Conducted exploratory data analysis using techniques from machine learning and computational statistics.

Publications

Journal Articles

- 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

Refereed Conference Proceedings

- **Blumenstock, JE**, and N Eagle (2010). "Mobile Divides: Gender, Socioeconomic Status, and Mobile Phone Use in Rwanda", *Proceedings of the International Conference on Information and Communication Technologies and Development*, (forthcoming).
- **Blumenstock, JE**, D Gillick, and N Eagle (2010). "Who's Calling? Demographics of Mobile Phone Use in Rwanda", *AAAI Spring Symposium 2010*, (forthcoming).
- **Blumenstock, JE** (2008). "Size Matters: Word Count as a Measure of Quality on Wikipedia", *Proceedings of the 17th International Conference on the World Wide Web*, ACM Press, 1095-1096.
- 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

Invited Presentations, Technical Reports, and Magazine Articles

- **Blumenstock, JE** (2008). "Automatically Assessing the Quality of Wikipedia Articles", University of California at Berkeley School of Information Technical Report #2008-021.
- **Blumenstock, JE** (2007). "Named Entity Recognition in Biographical Markup", ECAI/PNC Joint Meeting on Area Studies, October 2007.
- **Blumenstock, JE** (2004). "Closing the Gap: Solutions to South Africa's Digital Divide", *The Big Issue*. 81(8), 22-23
- **Blumenstock, JE** (2003). "Mining Clusters for Knowledge: Finding Algorithm-Independent Groups in Microarray Data", Undergraduate thesis, Wesleyan University

Other Skills

Spoken Languages: Close to fluent in Spanish and Portuguese; conversational in Mandarin.

Computer Languages: Expert programmer in C#/C++, R, Java, PHP, SQL, AJAX/DHTML; Proficient in MatLab, Stata, VBA, Python, ML, S-plus, shell scripts.

Systems: Expert in Windows & Linux systems and administration, with experience maintaining large networks of >200 web servers running linux, apache, mysql, etc.

Internet/Engineering: Expert web designer and web engineer; experience building and running websites serving millions of daily pageviews.