

# Michael Bernstein

Assistant Professor  
Stanford University  
Computer Science

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## Education

- Massachusetts Institute of Technology**, Cambridge, MA 2012  
Ph.D., Electrical Engineering and Computer Science  
Advisors: David R. Karger and Robert C. Miller  
Thesis: *Crowd-Powered Systems*
- Massachusetts Institute of Technology**, Cambridge, MA 2008  
S.M., Electrical Engineering and Computer Science  
Thesis: *Information Scraps – Understanding and Design*
- Stanford University**, Stanford, CA 2006  
B.S. with honors and distinction, Symbolic Systems  
Advisors: Scott R. Klemmer and Terry Winograd

## Research Interests

Human-computer interaction, crowdsourcing, social computing, data mining for interactive applications.

## Employment

- Stanford University**, Stanford, CA 1/13 –  
*Assistant Professor, Computer Science*
- Facebook**, Palo Alto, CA 7/12 – 12/12  
*Postdoctoral Researcher, Data Science team*
- MIT Computer Science and Artificial Intelligence Laboratory**, Cambridge, MA 9/06 – 6/12  
*Research Assistant, Haystack and User Interface Design Groups*
- Microsoft Research**, Cambridge, MA 11/11 – 6/12  
*Consulting Researcher*
- Microsoft Research**, Redmond, WA 6/11 – 9/11  
*Research Intern, Adaptive Systems and Interaction (ASI) Group*
- Palo Alto Research Center (PARC)**, Palo Alto, CA 6/09 – 8/09  
*Research Intern, Augmented Social Cognition Group*
- Microsoft Research**, Redmond, WA 5/08 – 8/08  
*Research Intern, Visualization and Interaction for Business and Entertainment (VIBE) Group*
- Google**, Mountain View, CA 6/06 – 9/06  
*User Interface Design Intern*
- Stanford University**, Stanford, CA 6/05 – 9/05  
*Research Intern, HCI group*
- Palo Alto Research Center (PARC)**, Palo Alto, CA 6/04 – 9/04  
*Research Intern, Human-Document Interaction group*
- 7 Studios**, Santa Monica, CA 6/03 – 9/03  
*Video Game Design Intern*

## Publications

### Conference Papers

- [1] **Bernstein, M.**, Teevan, J., Dumais, S., Liebling, D., and Horvitz, E. Direct Answers for Search Queries in the Long Tail. 2012. *CHI 2012: SIGCHI Conference on Human Factors in Computing Systems*. 23% acceptance rate.  
**Best Paper honorable mention.**
- [2] **Bernstein, M.**, Karger, D.R., Miller, R.C., and Brandt, J. Analytic Methods for Optimizing Realtime Crowdsourcing. 2012. *CI 2012: Collective Intelligence*. 17% acceptance rate for oral presentation.
- [3] André, P., **Bernstein, M.**, and Luther, K. 2012. Who Gives A Tweet? Evaluating Microblog Content Value. *CSCW 2012: ACM Conference on Computer-Supported Cooperative Work*. 9% acceptance rate for top-tier submissions.  
**Best Short Paper honorable mention.**
- [4] **Bernstein, M.**, Brandt, J., Miller, R.C., and Karger, D.R. 2011. Crowds in Two Seconds: Enabling Realtime Crowd-Powered Interfaces. *UIST 2011: ACM Symposium on User Interface Software and Technology*. 25% acceptance rate.
- [5] Xiao, X., **Bernstein, M.**, Yao, L., Lakatos, D., Gust, L., Acquah, K., Ishii, H. 2011. PingPong++: Community Customization in Games and Entertainment. *ACE 2011: ACM Conference on Advances in Computer Entertainment Technology*. 26% acceptance rate.
- [6] **Bernstein, M.**, Monroy-Hernandez, A., Harry, D., André, P., Panovich, K., and Vargas, G. 2011. 4chan and /b/: An Analysis of Anonymity and Ephemerality in a Large Online Community. *ICWSM 2011: AAAI Conference on Weblogs and Social Media*. 11% acceptance rate for oral presentation.  
**Best Paper award.**
- [7] Marcus, A., **Bernstein, M.**, Badar, O., Karger, D.R., Madden, S., and Miller, R.C. 2011. TwitInfo: Aggregating and Visualizing Microblogs for Event Exploration. *CHI 2011: SIGCHI Conference on Human Factors in Computing Systems*. 26% acceptance rate.
- [8] **Bernstein, M.**, Miller, R.C., Little, G., Ackerman, M., Hartmann, B., Karger, D.R., Crowell, D., and Panovich, K. 2010. Soylent: A Word Processor with a Crowd Inside. *UIST 2010: ACM Symposium on User Interface Software and Technology*. 18% acceptance rate.  
**Best Student Paper award.**
- [9] **Bernstein, M.**, Suh, B., Hong, L., Chen, J., Kairam, S., and Chi, E.H. 2010. Eddi: Interactive Topic-Based Browsing of Social Status Streams. *UIST 2010: ACM Symposium on User Interface Software and Technology*. 18% acceptance rate.
- [10] **Bernstein, M.**, Marcus, A., Karger, D.R., and Miller, R.C. 2010. Enhancing Directed Content Sharing on the Web. *CHI 2010: SIGCHI Conference on Human Factors in Computing Systems*. 22% acceptance rate.
- [11] Chen, J., Nairn, R., Nelson, L., **Bernstein, M.**, and Chi, E.H. Short and Tweet: Experiments on Recommending Content from Information Streams. *CHI 2010: SIGCHI Conference on Human Factors in Computing Systems*. 22% acceptance rate.
- [12] **Bernstein, M.**, Tan, D., Smith, G., Czerwinski, M., and Horvitz, E. 2009. Collabio: A Game for Annotating People within Social Networks. *UIST 2009: ACM Symposium on User Interface Software and Technology*. 17% acceptance rate.
- [13] Van Kleek, M., **Bernstein, M.**, Panovich, K., Vargas, G., Karger, D.R., and schraefel, mc. 2009. Note to Self: Examining Personal Information Keeping in a Lightweight Notekeeping Tool. *CHI 2009: SIGCHI Conference on Human Factors in Computing Systems*. 25% acceptance rate.  
**Best Short Paper honorable mention.**
- [14] **Bernstein, M.**, Sharger, J., and Winograd, T. 2008. Taskposé: Exploring Fluid Boundaries in a Task-Based Window Manager. *UIST 2008: ACM Symposium on User Interface Software and Technology*. 20.0% acceptance rate.
- [15] Miller, R.C., Chou, V., **Bernstein, M.**, Little, G., Van Kleek, M., Karger, D., and schraefel, mc. 2008. Inky: A Sloppy Command Line for the Web with Rich Visual Feedback. *UIST 2008: ACM Symposium on User Interface Software and Technology*. 20% acceptance rate.
- [16] Van Kleek, M., **Bernstein, M.**, Karger, D.R., and schraefel, mc. 2007. GUI — Phooey!: The Case for Text Input. In *Proceedings of UIST 2007: ACM Symposium on User Interface Software and Technology*. 17% acceptance rate.
- [17] Hartmann, B., Klemmer, S.R., **Bernstein, M.**, Abdulla, L., Burr, B., Robinson-Mosher, A., Gee, J. 2006. Reflective physical prototyping through integrated design, test, and analysis. In *Proceedings of UIST 2006: ACM Symposium on User Interface Software and Technology*. 23% acceptance rate.  
**Best Paper award.**

## Journal Articles

- [18] **Bernstein, M.**, Tan, D., Smith, G., Czerwinski, M., and Horvitz, E. Personalization via Friendsourcing. 2010. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 17(2).
- [19] **Bernstein, M.**, Van Kleek, M., Karger, D.R., and schraefel, mc. 2008. Information Scraps: How and Why Information Eludes our Personal Information Management Tools. *ACM Transactions on Information Systems (TOIS)*, 26(4).

## Editorships

- [20] Chi, E.H., and Bernstein, M (Eds.). *Special Issue on Crowdsourcing*. IEEE Internet Computer, 2012.

## Book Chapters

- [21] Little, G., Miller, R.C., Chou, V., **Bernstein, M.**, Lau, T., Cypher, A. Sloppy Programming. In Cypher, A., Dontheva, M., Lau, T., and Nichols, J. (Eds.), *No Code Required: Giving Users Tools to Transform the Web*. Burlington: Morgan Kaufmann, 2010.

## Videos, Thought Papers, Posters, Demonstrations (Peer Reviewed)

- [22] Marcus, A., **Bernstein, M.**, Badar, O., Karger, D.R., Madden, S., Miller, R.C. Tweets as Data: Demonstration of TweepQL and TwitInfo. In *SIGMOD 2011 Demos*.
- [23] **Bernstein, M.**, Ackerman, M.A., Chi, E.H., and Miller, R.C. The Trouble with Social Computing Systems Research. 2011. In *alt.chi 2011: Extended Abstracts of CHI 2011*.
- [24] **Bernstein, M.**, André, P., Luther, K., Poole, E., Solovey, E., Paul, S., Kane, S., and Grudin, J. CHistory. 2009. In *CHI 2009: SIGCHI Conference on Human Factors in Computing Systems*. Most Entertaining Video award.
- [25] **Bernstein, M.**, Van Kleek, M., schraefel, mc, and Karger, D.R. 2007. Management of Personal Information Scraps. 2007. In *Extended Abstracts of CHI 2007: Work-in-progress*. People's Choice award.
- [26] **Bernstein, M.**, Robinson-Mosher, A., Yeh, R.B., Klemmer, S.R. 2006. Diamond's Edge: From Notebook to Table and Back Again. In *Conference Supplement to Ubicomp 2006: Posters*.
- [27] Hartmann, B., Klemmer, S.R., **Bernstein, M.**, and Mehta, N. 2005. *d.tools: Visually Prototyping Physical UIs through Statecharts*. In *Conference Supplement to UIST 2005: Demonstrations*. Seattle, WA, October 2005.

## Magazine Articles

- [28] Marcus, A., **Bernstein, M.**, Badar, O., Karger, D.R., Madden, S., and Miller, R.C. Processing and Visualizing the Data in Tweets. *SIGMOD Record*, to appear.
- [29] **Bernstein, M.** Doing work, or Doing Work? *Communications of the ACM* 53, 8 (Aug. 2010), 8-9.

## Workshop Papers

- [30] **Bernstein, M.**, Kairam, S., Suh, B., Hong, L., and Chi, E.H. 2010. A Torrent of Tweets: Managing Information Overload in Online Social Streams. In *Proceedings of the 2010 CHI Workshop on Microblogging: What and How Can We Learn from It?*
- [31] André, P., schraefel, mc, **Bernstein, M.**, Dix, A., Luther, K., and White, R. Designing for Schadenfreude (or, how to express well-being and see if you're boring people). In *Proceedings of the 2010 CHI Workshop on Microblogging: What and How Can We Learn from It?*
- [32] Suh, B., Hong, L., Convertino, G., Chi, E.H., and **Bernstein, M.** Sensemaking with Tweeting. In *Proceedings of the 2010 CHI Workshop on Microblogging: What and How Can We Learn from It?*
- [33] **Bernstein, M.**, Marcus, A., Karger, D.R., and Miller, R.C. 2010. Who am I? Two-four-six-oh-one! In *Proceedings of the 2010 CSCW Workshop on Revisiting Research Ethics in the Facebook Era*.
- [34] **Bernstein, M.**, Van Kleek, M., schraefel, mc, and Karger, D.R. 2008. Evolution and Evaluation of an Information Scrap Manager. In *Proceedings of PIM 2008: CHI 2008 Workshop on Personal Information Management*.
- [35] Van Kleek, M., **Bernstein, M.**, André, P., Pertunnen, M., Karger, D.R., schraefel, mc. 2008. Simplifying knowledge creation and access for end users on the SW. In *Proceedings of the SWUI 2008: CHI 2008 Workshop on Semantic Web User Interfaces*.
- [36] **Bernstein, M.**, Van Kleek, M., Karger, D.R., and schraefel, mc. 2007. Personal Information Retrieval and the Problem of Information Scraps. In *Proceedings of HCIR 2007: Workshop on Human-Computer Interaction and Information Retrieval*.
- [37] **Bernstein, M.**, Van Kleek, M., Karger, D.R., and schraefel, mc. 2007. Information Scraps: Eluding our Personal Information Management Tools. In *Proc. CSW 2007: CSAIL Student Workshop*.

## Invited Panelist

- [38] RepliCHI – CHI should be replicating and validating results more: discuss. 2011. In *Proceedings of CHI 2011*.

## Unrefereed Publications

- [39] **Bernstein, M.**, Van Kleek, M., Karger, D.R., and schraefel, mc. 2007. Wicked Problems and Gnarly Results: Reflecting on Design and Evaluation Methods for Idiosyncratic Personal Information Management Tasks. *MIT Technical Report MIT-CSAIL-TR-2008-007*.
- [40] Hartmann, B., Klemmer, S.R., and **Bernstein, M.** 2006. Prototypes Enable Collaboration in Product Design – Let’s Help Designers Build More of Them. Boaster Paper in *Human Computer Interaction Consortium Winter Workshop*.
- [41] Hartmann, B., Klemmer, S.R., and **Bernstein, M.** *d.tools: Integrated Prototyping for Physical Interaction Design*. Work-in-Progress report in *IEEE Pervasive Computing*, Oct-Dec 2005.

### **Exhibitions**

- [42] Streaming crowd data from PingPong++ [5] embedded in:  
Dublon, G., Pardue, L., Mayton, B., Swartz, N., Hurst, P., Joliat, N., and Paradiso, J. 2011. DoppelLab. Ars Electronica.

## **Awards**

- Best Paper, AAAI ICWSM (2011)
- Best Student Paper, ACM UIST (2010)
- Best Paper Honorable Mention, ACM CHI 2012
- Best Paper co-recipient, ACM UIST (2006)
- Best Short Paper co-nominee, ACM CSCW 2012, ACM CHI 2009
  
- George M. Sprows Award for best doctoral thesis in Computer Science at MIT (2012)
- Microsoft Research PhD Fellowship (2011)
- Xerox Fellowship (2008)
- National Science Foundation Graduate Research Fellowship (2007)
- Phi Beta Kappa, Stanford University (2006)
- Firestone Award for Excellence in Undergraduate Research, Stanford University (2006)
- Nomination, Boothe Prize for Excellence in Writing, Stanford University (2003)

## **Service**

### **Program Committee**

- ACM UIST 2011
- AAAI ICWSM 2011–2012
- HCOMP 2012
- CSCW PIM workshop 2012
- KDD CrowdKDD workshop 2012

### **Chair**

- Videos, Technical Program: ACM CHI 2012, CHI 2011.
- Proceedings, Collective Intelligence 2012.
  
- CHI workshop on Rapidly Iterating Ideas in Crowdsourcing and Human Computation. 2012.
- CHI workshop on Crowdsourcing and Human Computation. 2011.
- Student Volunteering, ACM UIST 2010.
- First Workshop on Human Computer Interaction and Information Retrieval (HCIR). 2007.

### **Editor**

- IEEE Computing, special issue on crowdsourcing. 2012.
- CrowdResearch.org blog. 2011 – present.
- ACM XRDS magazine (formally Crossroads). 2010 – 2011.

### **Reviewing**

- CHI 2007 – 2012, UIST 2008 – 2012, CSCW 2009 – 2013, ICWSM 2011 – 2012, IUI 2012, UBICOMP 2012, ISWC 2009, ITS 2012.

### **Student Volunteer**

- UIST 2010 (chair), CSCW 2010, CHI 2006.

## Organizations

Founding Organizer, CrowdResearch.org. 2011 – present.

Founding Organizer, BostonCHI Labs research consortium. 2009 – 2012.

Organizer, MIT CSAIL Human-Computer Interaction Speaker Seminar. 2006 – 2010.

Founding Organizer, MIT Human-Computer Interaction Reading Group. 2006 – 2010.

DARPA ISAT Future Ideas Symposium. Selected as one of seventeen graduate students nationwide to participate. 2010.

Invited blogger, ACM Communications of the ACM Blog. 2009 – 2010.

## Talks

- [1] *Crowd-Powered Systems — Job Talk*
  - Facebook Data Science, Menlo Park, CA, April 2 2012.
  - Microsoft Research, Redmond, WA, March 29 2012.
  - Michigan School of Information, Ann Arbor, MI, March 26 2012.
  - Michigan Computer Science and Engineering, Ann Arbor, MI, March 22 2012.
  - Carnegie Mellon University, Pittsburgh, PA, March 19 2012.
  - UC San Diego Computer Science and Engineering, La Jolla, CA, March 16 2012.
  - UC San Diego Cognitive Science, La Jolla, CA, March 14 2012.
  - Brown University, Providence, RI, March 8 2012.
  - Stanford University, Stanford, CA, March 5 2012.
  - Google Research, Mountain View, CA, March 2 2012.
  - University of Washington Computer Science and Engineering, Seattle, WA, February 28 2012.
  - Princeton University, Princeton, NJ, February 22 2012.
  - University of Washington Information School, Seattle, WA, February 16 2012.
  - UC Berkeley, Berkeley, CA, February 7 2012.
  - UC Los Angeles, Los Angeles, CA, February 2 2012.
  - Columbia University, New York, NY, January 30 2012.
- [2] *Crowd-Powered Systems*
  - Emory University, Atlanta, GA, January 27 2012.
  - Georgia Institute of Technology, Atlanta, GA, January 26 2012.
  - Microsoft Research New England, Cambridge, MA, January 20 2012.
  - Tufts University, Cambridge, MA, January 19 2012.
  - IBM Research, Cambridge, MA, May 24 2011.
- [3] *Crowd-Powered Interfaces*
  - Carnegie Mellon University, Pittsburgh, PA, March 1 2011.
  - IBM Research, Haifa, Israel, December 29 2010.
- [4] *Soylent: A Word Processor with a Crowd Inside*
  - Cyberlaw: Difficult Issues with Jonathan Zittrain, Harvard University, Cambridge MA, Sept 27 2010.
- [5] *Data for the people, by the people*
  - HarambeeNet 2010, Durham, NC, July 9 2010.
- [6] *Crowd-Powered Interfaces*
  - DARPA ISAT, Washington D.C., June 24 2010.
- [7] *Personalization via Friendsourcing*
  - IBM Research Almaden, CA, July 22 2009.
- [8] *Information Scraps: Understanding and Design*
  - University of Washington, Seattle, WA, June 11 2008.

## Selected Press

- [1] More Search Could Be Crowdsourced. PCWorld, May 2012.  
[http://www.pcworld.com/article/255171/acm\\_chi\\_more\\_search\\_could\\_be\\_crowdsourced.html](http://www.pcworld.com/article/255171/acm_chi_more_search_could_be_crowdsourced.html)
- [2] What Makes a Great Tweet. Harvard Business Review, May 2012.
- [3] The Worst Kinds Of Tweets: STUDY. Huffington Post, April 2012.  
[http://www.huffingtonpost.com/2012/04/18/the-worst-kinds-of-tweets\\_n\\_1434727.html?ref=technology](http://www.huffingtonpost.com/2012/04/18/the-worst-kinds-of-tweets_n_1434727.html?ref=technology)
- [4] Newsflash: Two-Thirds of Tweets Boring, Says Study. Time, February 2012.  
<http://techland.time.com/2012/02/02/newsflash-two-thirds-of-tweets-boring-says-study/>

- [5] Only About a Third of Tweets Are Worth Reading [STUDY]. Mashable, February 2012.  
<http://mashable.com/2012/02/01/third-of-tweets-worth-reading/>
- [6] Be Better at Twitter: The Definitive, Data-Driven Guide. The Atlantic, January 2012.  
<http://www.theatlantic.com/technology/archive/12/01/be-better-at-twitter-the-definitive-datadriven-guide/252273/>
- [7] 4chanonomics. Slate, June 2011.  
<http://www.slate.com/id/2297492>
- [8] 4 Online Services to Satisfy Your Vanity. CNN, January 2011.  
<http://edition.cnn.com/2011/TECH/social.media/01/12/vanity.netiquette/>
- [9] Are Your Tweets Boring Or Beneficial? Mashable, December 2010.  
<http://mashable.com/2010/12/30/who-gives-a-tweet/>
- [10] MIT Researchers Build A 'Hot Or Not' for Twitter. TechCrunch, December 2010.  
<http://techcrunch.com/2010/12/30/who-gives-a-tweet/>
- [11] It's People! Meet Soylent, the Crowdsourced Copy Editor. Harvard Nieman Journalism Lab, November 2010.  
<http://www.niemanlab.org/2010/11/its-people-meet-soylent-the-crowdsourced-copy-editor/>
- [12] Adding Human Intelligence to Software. Technology Review, October 2010.  
<http://www.technologyreview.com/computing/26535/>
- [13] Soylent: A Word Processor with a Crowd Inside. Wired, September 2010.  
[http://www.wired.com/beyond\\_the\\_beyond/2010/09/soylent-a-word-processor-with-a-crowd-inside/](http://www.wired.com/beyond_the_beyond/2010/09/soylent-a-word-processor-with-a-crowd-inside/)
- [14] Palo Alto Researchers Create Tool for Dealing with Twitter's "Information Overload". ReadWriteWeb, April 2010.  
[http://www.readwriteweb.com/archives/palo\\_alto\\_researchers\\_create\\_tool\\_for\\_dealing\\_with\\_twitter\\_information\\_overload.php](http://www.readwriteweb.com/archives/palo_alto_researchers_create_tool_for_dealing_with_twitter_information_overload.php)
- [15] Eddi Organizes All the Crap On Twitter Into Neat Piles. Fast Company, April 2010.  
<http://www.fastcompany.com/1629462/parc-researchers-make-tweets-easier-to-browse>
- [16] What's in a Tweet? Technology Review, April 2010.  
<http://www.technologyreview.com/web/25189/>
- [17] list.it: Post-It Notes for the Twitter Generation. New York Times, February 2010.  
<http://www.nytimes.com/external/readwriteweb/2010/02/02/02readwriteweb-listit-post-it-notes-for-the-twitter-genera-13868.html>
- [18] Pourquoi les ordinateurs n'arrivent-ils pas à concurrencer les Post-it? Le Monde, March 2009.  
[http://www.lemonde.fr/technologies/article/2009/03/20/pourquoi-les-ordinateurs-n-arrivent-ils-pas-a-concurrencer-les-post-it\\_1170786\\_651865.html](http://www.lemonde.fr/technologies/article/2009/03/20/pourquoi-les-ordinateurs-n-arrivent-ils-pas-a-concurrencer-les-post-it_1170786_651865.html)
- [19] Tip of the Week: Managing Post-It Notes. New York Times, January 2009.  
<http://www.nytimes.com/2009/01/29/technology/personaltech/29askk-003.html>
- [20] Why Computers Can't Kill Post-Its. Forbes, January 2009.  
[http://www.forbes.com/2009/01/21/postits-digital-tools-tech-intel-cz\\_lg\\_0122postits.html](http://www.forbes.com/2009/01/21/postits-digital-tools-tech-intel-cz_lg_0122postits.html)
- [21] New York Times Tech Talk Podcast, January 2009.  
<http://podcasts.nytimes.com/podcasts/2009/01/21/22techtalk.mp3>
- [22] Lifehacker.com: Featured Firefox Extension: list.it Synchronizes Firefox Notes in Firefox  
<http://lifehacker.com/5113054/listit-synchronizes-text-notes-in-firefox>
- [23] Microsoft Conducts Research on Facebook with Collabio. TechCrunch, August 2008.  
<http://www.techcrunch.com/2008/08/22/microsoft-uses-facebook-to-conduct-research-with-collabio/>

## Teaching

Graduate Student Teaching Certificate Program, MIT	2011
User Interface Design and Implementation (6.813/6.831), MIT	2010
Interactive Technology Design (6.089), MIT	2009 – 2011
Introduction to Human-Computer Interaction (CS 147), Stanford University	2005
Programming Methodologies (CS 106A), Stanford University	2004

## Mentoring

- [1] Fall–Spring 2010: Kavya Joshi
- [2] Summer 2010 to Spring 2011: David Crowell – now a Masters student at MIT
- [3] Spring 2010: Margaret Leibovic – now at Mozilla
- [4] Spring 2008: Nicholas Edelman – now a Masters student at MIT
- [5] Summer 2007: Rajeev Nayak – now at Google, Curtis Liu – now at Google

## References

**David R. Karger**

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University of Michigan  
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