

# Michael S. Bernstein

Assistant Professor of Computer Science  
Stanford University

msb@cs.stanford.edu  
<http://hci.stanford.edu/msb>  
353 Serra Mall, Room #384, Stanford CA 94305

## Education

**Massachusetts Institute of Technology**, Cambridge, MA 2012  
Ph.D., Electrical Engineering and Computer Science  
Thesis: *Crowd-Powered Systems*

**Massachusetts Institute of Technology**, Cambridge, MA 2008  
Master of Science, Electrical Engineering and Computer Science

**Stanford University**, Stanford, CA 2006  
Bachelor of Science with Honors and Distinction, Symbolic Systems

## Research Interests

Human-computer interaction, crowdsourcing, social computing, collective intelligence, future of work

## Employment

**Stanford University**, Stanford, CA 1/13 – present  
*Assistant Professor, Computer Science*

**Facebook Data Science Team**, Menlo Park, CA 7/12 – 12/12  
*Postdoctoral Researcher*

## Awards and Honors

2018 Best Paper honorable mention, ACM CHI  
2017 Best Paper award, ACM CHI  
Best Paper award, ACM CSCW  
Best Paper honorable mention, ACM UIST  
Best Paper Honorable Mention x2 (2 independent honorable mentions on different papers), ACM CHI  
Outstanding Academic Title, American Library Association, *Choice: Handbook of Collective Intelligence*  
2016 Sloan Research Fellowship  
Best Paper award, ACM CHI  
Best Paper honorable mention, ACM CHI  
2015 Invited paper in Communications of the ACM, Technical Perspective  
Best Paper Honorable Mention x5 (5 independent honorable mentions on different papers), ACM CHI  
Best Paper Honorable Mention, ACM CSCW  
2014 Best Paper award, ACM UIST  
National Academy of Sciences Kavli Fellow  
NSF CAREER award  
2013 Robert N. Noyce Family Faculty Scholar (2013–2015)  
Google Faculty Research Award  
Yahoo! Academic Career Enhancement Award  
Best Paper Honorable Mention, ACM CHI

2012	Best Paper Honorable Mention, ACM CHI Best Short Paper Honorable Mention, ACM CSCW George M. Sprows Award for best doctoral thesis in Computer Science at MIT
2011	Microsoft Research PhD Fellowship Best Paper, AAAI ICWSM
2010	Best Student Paper, ACM UIST
2009	Best Short Paper Honorable Mention, ACM CHI
2008	Xerox Graduate Fellowship
2007	National Science Foundation Graduate Research Fellowship
2006	Best Paper, ACM UIST

## Publications

The top-tier venues in human-computer interaction research are ACM CHI, UIST, Ubicomp, and CSCW. In 2018, CSCW transitioned to a hybrid journal structure under Proceedings of the ACM (PACM: CSCW). Students are typically named first. PhD and MS students bolded.

### Books

- [1] Malone, T., and Bernstein, M., Editors. 2015. *The Handbook of Collective Intelligence*. MIT Press.  
**Outstanding Academic Title citation, American Library Association Choice.**

### Conference and PACM (conference-journal hybrid) papers

- [2] **Krishna, R.**, Chami, I., Bernstein, M., and Li Fei-Fei. 2018. Referring Relationships. *CVPR 2018*.
- [3] **Zhou, S.**, Valentine, M., and Bernstein, M. 2018. In Search of the Dream Team: Temporally Constrained Multi-Armed Bandits for Identifying Effective Team Structures. *CHI 2018: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [4] **Fast, E.**, Chen, B., Mendelsohn, J., Bassen, J., and Bernstein, M. 2018. Iris: A Conversational Agent for Complex Tasks. *CHI 2018: SIGCHI Conference on Human Factors in Computing Systems*.
- [5] **Retelny, D.**, Bernstein, M., and Valentine, M. 2017. No Workflow Can Ever Be Enough: How Crowdsourcing Workflows Constrain Complex Work. *Proc. ACM Hum.-Comput. Interact. 1, CSCW, Article 89 (November 2017)*.
- [6] Vaish, R., Gaikwad, S., **Kovacs, G.**, Veit, A., **Krishna, R.**, Ibarra, I.A., Simoiu, C., Wilber, M., Belongie, S., Goel, S., Davis, J., Bernstein, M. Crowd Research: Open and Scalable University Laboratories. 2017. *UIST 2017: ACM Symposium on User Interface Software and Technology*. **Best Paper honorable mention.**
- [7] Lin, Z., **Salehi, N.**, Yao, B., Chen, Y., Bernstein, M. Better When It Was Smaller? Community Content and Behavior After Massive Growth. 2017. *ICWSM 2017: AAAI Conference on Web and Social Media*.
- [8] Valentine, M., **Retelny, D.**, **To, A.**, **Rahmati, N.**, **Doshi, T.**, Kim, M., Fonua, M., Bernstein, M. Flash Organizations: Crowdsourcing Complex Work by Structuring Crowds As Organizations. 2017. *CHI 2017: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper.**
- [9] **Alkhatib, A.**, Bernstein, M., Levi, M. Examining Crowd Work and Gig Work Through The Historical Lens of Piecework. 2017. *CHI 2017: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [10] **Kokkalis, N.**, Fan, C., Roith, J., Bernstein, M., Klemmer, S. MyriadHub: Efficiently Scaling Personalized Email Conversations with Valet Crowdsourcing. *CHI 2017: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [11] **Cheng, J.**, Bernstein, M., Danescu-Niculescu-Mizil, C., Leskovec, J. Anyone Can Become a Troll: Causes of Trolling Behavior in Online Discussions. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*. **Best Paper.**
- [12] **Salehi, N.**, McCabe, A., Valentine, M., and Bernstein, M. Huddler: Convening Stable and Familiar Crowd Teams Despite Unpredictable Availability. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*.

- [13] **Kim, J., Sterman, S.**, Cohen, A.A.B., and Bernstein, M. Mechanical Novel: Crowdsourcing Complex Work through Reflection and Revision. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*.
- [14] **Kim, J.**, Agrawala, M., and Bernstein, M. Mosaic: Designing Online Creative Communities for Sharing Works-in-Progress. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*. **Best Paper honorable mention.**
- [15] **Kokkalis, N.**, Fan, C., and Bernstein, M. Founder Center: Enabling Access to Collective Social Capital. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*.
- [16] **Hata, K., Krishna, R.**, Fei-Fei, L., and Bernstein, M. A Glimpse Far into the Future: Understanding Long-term Crowd Worker Accuracy. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*.
- [17] **Mark E. Whiting**, Dilrukshi Gamage, Aaron Gilbee, Snehal Gaikwad, Shirish Goyal, Aipta Ballav, Dinesh Majeti, Nalin Chhibber, Freddie Vargus, Teo Moura, Angela Richmond-Fuller, Varshine Chandrakanthan, Gabriel Bayomi Tinoco Kalejaiye, Tejas Seshadri Sarma, Yoni Dayan, Adam Ginzberg, Mohammed Hashim Kambal, Kristy Milland, Sayna Parsi, Catherine A. Mullings, Henrique Orefice, Sekandar Matin, Vibhor Sehgal, **Sharon Zhou**, Akshansh Sinha, Jeff Regino, Rajan Vaish, Michael S. Bernstein. Crowd Guilds: Worker-led Reputation and Feedback on Crowdsourcing Platforms. 2017. *CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing*.
- [18] Lu, C., **Krishna, R.**, Bernstein, M., and Fei-Fei, L. Visual Relationship Detection with Language Priors. 2016. *ECCV 2016: European Conference on Computer Vision*. Oral presentation.
- [19] Gaikwad, S.S., Morina, D., Ginzberg, A., Mullings, C., Goyal, S., Gamage, D., Diemert, C., Burton, M., Zhou, S., **Whiting, M.**, Ziulkoski, K., Ballav, A., Gilbee, A., Niranga, S.S., Sehgal, V., Lin, J., Kristianto, L., Richmond-Fuller, A., Regino, J., Chhibber, N., Majeti, D., Sharma, S., Mananova, K., Dhakal, D., Dai, W., Purynova, V., Sandeep, S., Chandrakanthan, V., Sarma, T., Matin, S., Nassar, A., Nistala, R., Stolzoff, A., Milland, K., Mathur, V., Vaish, R., and Bernstein, M. Boomerang: Rebounding the Consequences of Reputation Feedback on Crowdsourcing Platforms. 2016. *UIST 2016: ACM Symposium on User Interface Software and Technology*.
- [20] **Fast, E.**, and Bernstein, M. Meta: Enabling Programming Languages to Learn from the Crowd. 2016. *UIST 2016: ACM Symposium on User Interface Software and Technology*.
- [21] **Fast, E.**, Vachovsky, T., and Bernstein, M. Shirtless and Dangerous: Quantifying Linguistic Signals of Gender Bias in an Online Fiction Writing Community. 2016. *ICWSM 2016: AAAI Conference on Weblogs and Social Media*.
- [22] **Fast, E.**, Chen, B., and Bernstein, M. Empath: Understanding Topic Signals in Large-Scale Text. 2016. *CHI 2016: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper.**
- [23] **Fast, E.**, McGrath, W., Rajpurkar, P., and Bernstein, M. Augur: Mining Human Behaviors from Fiction to Power Interactive Systems. 2016. *CHI 2016: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [24] **Krishna, R.**, Hata, K., Chen, S., Kravitz, J., Shamma, D., Fei-Fei, L., and Bernstein, M. Embracing Error to Enable Rapid Crowdsourcing. 2016. *CHI 2016: SIGCHI Conference on Human Factors in Computing Systems*.
- [25] Suzuki, R., **Salehi, N.**, Lam, M., Marroqin, J., and Bernstein, M. Atelier: Repurposing Expert Crowdsourcing Tasks as Micro-internships. 2016. *CHI 2016: SIGCHI Conference on Human Factors in Computing Systems*.
- [26] Ikeda, K., and Bernstein, M. Pay It Backward: Per-Task Payments on Crowdsourcing Platforms Reduce Productivity. 2016. *CHI 2016: SIGCHI Conference on Human Factors in Computing Systems*.
- [27] Zhu, Y., Groth, O., Bernstein, M., and Li-Feifei, L. Visual7W: Grounded Question Answering in Images. 2016. *CVPR 2016*.
- [28] **Salehi, N.**, Irani, L., Bernstein, M., **Alkhatib, A.**, Ogbe, E., Milliland, K., and Clickhappier. We Are Dynamo: Overcoming Stalling and Friction in Collective Action for Crowd Workers. 2015. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [29] **Cheng, J.**, Teevan, J., Iqbal, S., and Bernstein, M. Break It Down: A Comparison of Macro- and Microtasks. 2015. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**

- [30] **Cheng, J.**, Teevan, J., and Bernstein, M. Measuring Crowdsourcing Effort with Error-Time Curves. 2015. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [31] **Kim, J.**, Dontcheva, M., Li, W., Bernstein, M., and Steinsapir, D. Motif: Supporting Novice Creativity through Expert Patterns. 2015. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [32] Lasecki, W., Kim, J., Rafter, N., **Sen, O.**, Bigham, J., and Bernstein, M. Apparition: Crowdsourced User Interfaces That Come To Life As You Sketch Them. 2015. *CHI 2015: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [33] Johnson, J., **Krishna, R.**, Stark, M., Li-Jia Li, Shamma D., Bernstein, M., Li Fei-Fei. Image Retrieval using Scene Graphs. 2015. *CVPR 2015: Computer Vision and Pattern Recognition*.
- [34] **Kulkarni, C.**, Bernstein, M., and Klemmer, S. Rapid peer feedback in MOOCs emphasizes iteration and improves performance. 2015. *Learning@Scale 2015*.
- [35] Kotturi, Y., **Kulkarni, C.**, Bernstein, M., and Klemmer, S. 2015. Structure and messaging techniques for online peer learning systems that increase stickiness. *Learning@Scale 2015*.
- [36] **Cheng, J.**, and Bernstein, M. Flock: Hybrid Crowd-Machine Learning Classifiers. 2015. *CSCW 2015: ACM Conference on Computer-Supported Cooperative Work*. **Best Paper honorable mention.**
- [37] **Kulkarni, C.**, Cambre, J., Kotturi, Y., Bernstein, M., and Klemmer, S. Making Distance Matter with Small Groups in Massive Classes. 2015. *CSCW 2015: ACM Conference on Computer-Supported Cooperative Work*.
- [38] **Retelny, D.**, Robaszekiewicz, S., To, A., Lasecki, W., Patel, J., Rahmati, N., Doshi, T., Valentine, M., and **Bernstein, M.** Expert Crowdsourcing with Flash Teams. 2014. *UIST 2014: ACM Symposium on User Interface Software and Technology*. **Best Paper award.**
- [39] Verroios, V., and Bernstein, M. Context Trees: Crowdsourcing Global Understanding from Local Views. 2014. *HCOMP 2014: AAAI Conference on Human Computation and Crowdsourcing*.
- [40] Demiralp, Ç., Bernstein, M., and Heer, J. Learning Perceptual Kernels for Visualization Design. 2014. *InfoVis 2014: IEEE Transactions on Visualization and Computer Graphics*.
- [41] **Fast, E.**, Steffee, D., Wang, L., and Bernstein, M. Emergent, Crowd-scale Programming Practice in the IDE. 2014. *CHI 2014: SIGCHI Conference on Human Factors in Computing Systems*.
- [42] Vaish, R., Wyngarden, K., Chen, J., Cheung, B., Bernstein, M. Twitch Crowdsourcing: Crowd Contributions in Short Bursts of Time. 2014. *CHI 2014: SIGCHI Conference on Human Factors in Computing Systems*.
- [43] Deng, J., Russakovsky, O., Krause, J., Bernstein, M., Berg, A., and Li Fei-Fei. Scalable Multi-label Annotation. 2014. *CHI 2014: SIGCHI Conference on Human Factors in Computing Systems*.
- [44] Bakshy, E., Eckles, D., Bernstein, M. Advanced Internet Experimentation with PlanOut. 2014. *WWW 2014: International World Wide Web Conference*.
- [45] **Kulkarni, C.**, Socher, R., Bernstein, M., Klemmer, S. Scaling Short-answer Grading by Combining Peer Assessment with Algorithmic Scoring. *Learning@Scale 2014*.
- [46] **Cheng, J.**, Bernstein, M. Catalyst: Triggering Collective Action with Thresholds. 2014. *CSCW 2014: ACM Conference on Computer-Supported Cooperative Work*.
- [47] **Kim, J.**, **Cheng, J.**, Bernstein, M. Ensemble: Exploring Complementary Strengths of Leaders and Crowds in Creative Collaboration. 2014. *CSCW 2014: ACM Conference on Computer-Supported Cooperative Work*.
- [48] **Fast, E.**, Lee, C., Aiken, A., Bernstein, M., Koller, D., and Smith, E. Crowd-scale Interactive Formal Reasoning and Analytics. 2013. *UIST 2013: ACM Symposium on User Interface Software and Technology*.
- [49] Bernstein, M., Bakshy, E., Burke, M., and Karrer, B. Quantifying the Invisible Audience in Social Networks. 2013. *CHI 2013: SIGCHI Conference on Human Factors in Computing Systems*. **Best Paper honorable mention.**
- [50] *Kokkalis, N.*, Koehn, T., Pfeiffer, C., Chorneyi, D., Bernstein, M., and Klemmer, S. EmailValet: Managing Email Overload through Private, Accountable Crowdsourcing. 2013. *CSCW 2013: ACM Conference on Computer-Supported Cooperative Work*.

- [51] Kittur, A., Nickerson, J., Bernstein, M., Gerber, E., Shaw, A., Zimmerman, J., Lease, M., and Horton, J. The Future of Crowd Work. 2013. *CSCW 2013: ACM Conference on Computer-Supported Cooperative Work*.
- [52] 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*. **Best Paper honorable mention.**
- [53] Bernstein, M., Karger, D.R., Miller, R.C., and Brandt, J. Analytic Methods for Optimizing Realtime Crowdsourcing. 2012. *CI 2012: Collective Intelligence*.
- [54] 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*. **Best Short Paper honorable mention.**
- [55] 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*.
- [56] 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*.
- [57] 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*. **Best Paper award.**
- [58] 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*.
- [59] 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*. **Best Student Paper award.**
- [60] 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*.
- [61] 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*.
- [62] 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*.
- [63] 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*.
- [64] 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*. **Best Short Paper honorable mention.**
- [65] 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*.
- [66] 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*.
- [67] 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*.
- [68] 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*. **Best Paper award.**

## Journal Articles

- [69] **Salehi, N.**, Bernstein, M. 2018. Ink: Increasing Worker Agency to Reduce Friction in Hiring Crowd Workers. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 25(2).
- [70] **Krishna, R.**, Zhu, Y., Groth, O., Johnson, J., **Hata, K.**, Kravitz, J., Chen, S., Kalantidis, Y., Jia-Li, L., Shamma, D.A., Bernstein, M., Fei-Fei, L. 2017. Visual Genome: Connecting Language and Vision Using Crowdsourced Dense Image Annotations. *International Journal of Computer Vision (IJCV)*.
- [71] Russakovsky, O., Deng, J., Su, H., Krause, J., Satheesh, S., Ma, S., Huang, Z., Karpathy, A., Khosla, A., Bernstein, M., Berg, A.C. and Fei-Fei, L. 2015. ImageNet Large Scale Visual Recognition Challenge. *International Journal of Computer Vision (IJCV)*.
- [72] Bernstein, M., Tan, D., Smith, G., Czerwinski, M., and Horvitz, E. Personalization via Friendsourcing. 2010. *ACM Transactions on Computer-Human Interaction (TOCHI)*, 17(2).
- [73] 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).

## Software

- [74] Daemo crowdsourcing platform, as part of the Stanford Crowd Research Collective. Released open-source and launched as a research platform at <https://www.daemo.org>.
- [75] PlanOut web experimentation framework. Developed with Eytan Bakshy and Dean Eckles. Released open-source. Others have since ported the system to PHP, Java, Ruby, Go, and Javascript.

## Book Chapters

- [76] Bigham, J., Bernstein, M., and Adar, E. Human-Computer Interaction and Collective Intelligence. In Malone, T. and Bernstein, M., Editors. *Collective Intelligence Handbook*. MIT Press, 2015.
- [77] 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., Editors. *No Code Required: Giving Users Tools to Transform the Web*. Burlington: Morgan Kaufmann, 2010.

## Tutorials and summer schools

- [78] Lipari Summer School on Computational Complex Systems. 2015.

## Nonarchival Papers, Posters, Videos, Works in Progress, Demonstrations (Peer Reviewed)

- [79] **Whiting, M.**, Gamage, D., Goyal, S., Gilbee, A., Majeti, D., Fuller, A., Salih, M., Sarma, T., Mathur, V., Pandey, M., Gaikwad, S., Vaish, R., and Bernstein, M. Designing a constitution for a self-governing crowdsourcing marketplace. In *Collective Intelligence 2017*.
- [80] Valentine, M., Bernstein, M., and **Retelny, D.** 2016. Crowd organizations: crowdsourcing complex work via reconfigurable organizational structures. In *Collective Intelligence 2016*.
- [81] **Metaxa-Kakavouli, D.**, Rusak, G., Teevan, J., Bernstein, M. The Web Is Flat: The Inflation of Uncommon Experiences Online. In *CHI 2016*. **Best paper, late-breaking work.**
- [82] Gaikwad, S., Morina, D., Nistala, R., Agarwal, M., Cossette, A., Bhanu, R., Savage, S., Narwal, V., Rajpal, K., Regino, J., Mithal, A., Ginzberg, A., Nath, A., R. Ziulkoski, K., Cossette, T., Gamage, D., Richmond-Fuller, A., Suzuki, R., Herrejon, J., V. Le, K., Flores-Saviaga, C., Thilakarathne, H., Gupta, K., Dai, W., Sastry, A., Goyal, S., Rajapakshe, T., Abolhassani, N., Xie, A., Reyes, A., Ingle, S., Jaramillo, V., . Godinez, M., Angel, W., Godinez, M., Toxtli, C., Flores, J., Gupta, A., Sethia, V., Padilla, D., Milland, K., Setyadi, K., Wajirasena, N., Batagoda, M., Cruz, R., Damon, J., Nekkanti, D., Sarma, T., . Saleh, M., Gongora-Svartzman, G., Bateni, S., Toledo-Barrera, G., Pena, A., Compton, R., Aariff, D., Palacios, L., P. Ritter, M., ha K.K., Ni, Kay, A., Uhrmeister, J., Nistala, S., Esfahani, M., Bakiu, E., Diemert, C., Matsumoto, L., Singh, M., Jaramillo-Lopez, V., Patel, K., **Krishna, R.**, **Kovacs, G.**, Vaish, R., Bernstein, M. 2015. Daemo: a Self-Governed Crowdsourcing Marketplace. In *UIST 2015*.
- [83] **Salehi, N.**, Bernstein, M. 2015. Drawing Crowds out of Markets and Into Users' Just-in-Time Needs. In *Collective Intelligence 2015*.
- [84] Vaish, R., Davis, J., Bernstein, M. 2015. Crowdosurcing the Research Process. In *Collective Intelligence 2015*.

- [85] **Kim, J.**, Bagla, A., Bernstein, M. 2015. Designing Creativity Support Tools for Failure. In *Creativity and Cognition 2015*.
- [86] **Fast, E.**, Rajpurkar, P., Bernstein, M. 2015. Text Mining Human Behaviors for Interactive Systems. In *CHI 2015*.
- [87] Pandey, V., Kotturi, Y., **Kulkarni, C.**, Bernstein, M., and Klemmer, S. Connecting Stories and Pedagogy Increases Participant Engagement in Discussions. In *Learning@Scale 2015*.
- [88] Embiricos, A., **Rahmati, N.**, Zhu, N., and Bernstein, M. Structured handoffs in expert crowdsourcing improve communication and work output. 2014. In *UIST 2014*.
- [89] **Retelny, D.**, Robaszkiewicz, S., To, A., Bernstein, M. Expert Crowdsourcing with Flash Teams. 2013. In *CrowdConf 2013*.
- [90] Marcus, A., Bernstein, M., Badar, O., Karger, D.R., Madden, S., Miller, R.C. 2011. Tweets as Data: Demonstration of TweepQL and TwitInfo. In *SIGMOD 2011 Demos*.
- [91] 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*.
- [92] 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.
- [93] 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.
- [94] 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*.
- [95] 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

- [96] Bernstein, M., Miller, R.C., Little, G., Ackerman, M., Hartmann, B., Karger, D.R., Crowell, D., and Panovich, K. 2015. Soylent: A Word Processor with a Crowd Inside. Research Highlight, *Communications of the ACM*.
- [97] Marcus, A., Bernstein, M., Badar, O., Karger, D.R., Madden, S., and Miller, R.C. Processing and Visualizing the Data in Tweets. *SIGMOD Record* 40, 4 (2012).
- [98] Bernstein, M. Doing work, or Doing Work? *Communications of the ACM* 53, 8 (Aug. 2010), 8-9.

### Workshop Papers

- [99] Bernstein, M. 2016. Working for the Machine. In *Proceedings of the 2016 CHI Workshop on Productivity Decomposed*.
- [100] 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?*
- [101] 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?*
- [102] 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?*
- [103] 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*.
- [104] 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*.
- [105] 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*.
- [106] 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*.

- [107] 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*.

### Panelist

- [108] Supporting Big Tasks Through Microtasks. *Microsoft Research Faculty Summit 2016*.  
[109] Micro-volunteering: helping the helpers in development. In *Proceedings of CSCW 2013*.  
[110] Hunting for fail whales: lessons from deviance and failure in social computing. In *Proceedings of CHI 2012*.  
[111] RepliCHI – CHI should be replicating and validating results more: discuss. 2011. In *Proceedings of CHI 2011*.

### Exhibitions

- [112] Streaming crowd data from PingPong++ [56] embedded in:  
Dublon, G., Pardue, L., Mayton, B., Swartz, N., Hurst, P., Joliat, N., and Paradiso, J. 2011. Doppellab. Ars Electronica.

### Patents

- [113] Teevan, J., Dumais, S.T., Bernstein, M.S., Horvitz, E., Morris, M., Jeong, J., Liebling, D. 2016. Providing crowdsourced answers to information needs presented by search engine and social networking application users.  
[114] Bernstein, M., Hong, L., Chi, E., and Suh, B. 2014. System and method for identifying topics for short text communications.

## Professional Activities

### Program Committee Chair

- 2019 UIST: ACM Symposium on User Interface Software and Technology  
2017 Collective Intelligence

### Program Committee

- 2018 ACM UIST  
2017 ACH CHI  
ACM CSCW  
2016 ACM CHI  
2015 ACM UIST  
2014 ACM UIST  
ACM CSCW  
2013 ACM WWW  
AAAI HCOMP  
AAAI ICWSM  
2012 AAI HCOMP  
AAAI ICWSM  
2011 ACM UIST  
AAAI ICWSM

### Editor

- 2016– current ACM Transactions on Social Computing  
2012 IEEE Computing, special issue on crowdsourcing  
2011–2012 CrowdResearch.org blog  
2010–2011 ACM XRDS magazine (formally Crossroads)

### Venue Chair

- 2012 ACM CHI videos chair, Technical Program  
COLLECTIVE INTELLIGENCE proceedings chair



- 2011 CHI workshop on Rapidly Iterating Ideas in Crowdsourcing and Human Computation  
ACM CHI videos chair, Technical Program
- 2010 CHI workshop on Crowdsourcing and Human Computation  
AAAI UIST student volunteer chair  
AAAI ICWSM program committee
- 2007 General Chair, First Workshop on Human Computer Interaction and Information Retrieval (HCIR)

### Reviewing

CHI 2007 – 2018, UIST 2008 – 2018, CSCW 2009 – 2017, HCOMP 2012 – 2013, ICWSM 2011 – 2013, IUI 2012, UBICOMP 2012, ITS 2012, ISWC 2009.

### Organizations

- Founding Organizer, CrowdResearch.org. 2011 – 2014.
- 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. 2010.
- Invited blogger, ACM Communications of the ACM Blog. 2009 – 2010.

### University and Departmental Service

- 2017 HCI Lecturer search committee  
Symbolic Systems steering committee  
Center for Computational Social Science steering committee
- 2016 Symbolic Systems steering committee  
Stanford Center for the Study of Language and Information advisory board  
Curriculum committee task force on scaling CS educational capacity
- 2015 Year of Learning steering committee  
Symbolic Systems steering committee  
Stanford Center for the Study of Language and Information advisory board
- 2014 Online learning ad-hoc committee  
Symbolic Systems steering committee  
Stanford Center for the Study of Language and Information advisory board
- 2013 Symbolic Systems steering committee  
Stanford Center for the Study of Language and Information advisory board

### Seminars

- Organizer, Stanford Seminar on People, Computers and Design. 2013 – current.

### Invited Talks

- [1] Crowds, Computation, and the Future of Work  
University of Washington. Seattle, Washington. December 5 2018.  
Pinterest Distinguished Speaker Series. San Francisco, California. July 26 2018.
- [2] *In A Flash: Crowdsourcing Organizations, Teams, and Research*  
Northwestern University Segal Speaker Series. Evanston, Illinois. May 15 2018.  
Cornell Computer Science Colloquium Series. Ithaca, New York. November 16 2017.  
Adobe Research. San Francisco, California. February 14 2017.  
Carnegie Mellon University HCII Department Seminar. Pittsburgh, Pennsylvania, February 10 2017.  
Data On Purpose Conference. Stanford, California, February 8 2017.
- [3] *Crowdsourcing A Meeting of Minds: Designing the Future of Work*  
Harvard Digital Seminar. Cambridge, Massachusetts, November 30 2016.  
University of Washington. Seattle, Washington, August 8 2016.

- Keynote: Open and User Innovation Conference. Boston, Cambridge, August 1 2016.  
 Microsoft Research Faculty Summit. Redmond, Washington, July 14, 2016.  
 Plenary: Collective Intelligence. New York, New York, June 2 2016.  
 New York University, GovLab Seminar. New York, New York, June 2 2016.  
 University of Illinois Urbana Champaign HCI Seminar. Urbana, Illinois, December 8 2015.  
 NYU IS Seminar. New York, New York, November 6 2015.  
 Carnegie Mellon University. Pittsburgh, Pennsylvania, October 27 2015.
- [4] *A Meeting of Minds: Enabling Expert Crowdsourcing*  
 UC Berkeley BiD Seminar. Berkeley, CA, March 31 2015.  
 University of Toronto. Toronto, Ontario, Canada, March 27 2015.  
 University of Waterloo. Waterloo, Canada, March 26 2015.  
 UCI Informatics Seminar Series. Irvine, CA, January 16 2015.  
 Stanford Liberation Technology Seminar. Stanford, CA, January 15 2015.  
 Technion. Haifa, Israel, December 22 2014.  
 Accenture Distinguished Lecture Series. San Jose, CA, December 12 2014.  
 HCOMP Workshop on Crowdsourcing, Online Education, and MOOCs. Pittsburgh, PA, November 2 2014.  
 Google, Mountain View, CA, July 28 2014.  
 Foundation Capital, Menlo Park, CA, June 30 2014.  
 oDesk, Menlo Park, CA, June 12 2014.  
 Stanford Computational Science Conference, Stanford, CA, April 11 2014.
- [5] *Collective Intelligence*  
 Kavli Frontiers of Science, Irvine, CA, November 17 2014.
- [6] *Crowd-Powered Systems*  
 Vanguard [next], San Francisco, CA, December 10 2013.  
 NIPS crowdsourcing workshop, Lake Tahoe, NV, December 9 2013.  
 KredibleNet Workshop, Stanford, CA, October 18 2013.  
 Drexel University, Philadelphia, PA, August 20 2013.  
 Keynote at WebScience SoHuman workshop, Paris, France, May 1 2013.  
 Twitter, San Francisco, CA, April 25 2013.  
 Stanford Computer Forum, Stanford, CA, April 16 2013.  
 Symbolic Systems Forum, Stanford, CA, January 14 2013.  
 MediaX, Stanford, CA, January 8 2013.  
 Institute for the Future, Palo Alto, CA, November 7 2012.  
 CrowdConf, San Francisco, CA, October 23 2012.  
 University of Illinois at Urbana-Champaign, Urbana, IL, October 16 2012.  
 Stanford CS 300 Seminar, Stanford, CA, October 3 2012.
- [7] *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.
- [8] *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.
- [9] *Crowd-Powered Interfaces*  
Carnegie Mellon University, Pittsburgh, PA, March 1 2011.  
IBM Research, Haifa, Israel, December 29 2010.
- [10] *Soylent: A Word Processor with a Crowd Inside*  
Cyberlaw: Difficult Issues with Jonathan Zittrain, Harvard University, Cambridge MA, Sept 27 2010.
- [11] *Data for the people, by the people*  
HarambeeNet 2010, Durham, NC, July 9 2010.
- [12] *Crowd-Powered Interfaces*  
DARPA ISAT, Washington D.C., June 24 2010.
- [13] *Personalization via Friendsourcing*  
IBM Research Almaden, CA, July 22 2009.
- [14] *Information Scraps: Understanding and Design*  
University of Washington, Seattle, WA, June 11 2008.

## Selected Press

- [1] The Pop-Up Employer: Build a Team, Do the Job, Say Goodbye. New York Times. July 2017.  
<https://www.nytimes.com/2017/07/12/business/economy/flash-organizations-labor.html>
- [2] We're All Internet Trolls (Sometimes). Wall Street Journal. March 2017.  
<https://www.wsj.com/articles/were-all-internet-trolls-sometimes-1488718803>
- [3] There's a Troll Inside All of Us, Researchers Say. Technology Review. February 2017.  
<https://www.technologyreview.com/s/603489/theres-a-troll-inside-all-of-us-researchers-say/>
- [4] Working for the Machine. Pacific Standard. August 2015.  
<http://www.psmag.com/business-economics/the-future-of-work-working-for-the-machine>
- [5] Le Turc Mécanique. France 2. May 2015.  
[http://www.francetvinfo.fr/replay-magazine/france-2/envoye-special/envoye-special-du-jeudi-4-juin-2015\\_925735.html](http://www.francetvinfo.fr/replay-magazine/france-2/envoye-special/envoye-special-du-jeudi-4-juin-2015_925735.html)  
<https://www.youtube.com/watch?v=eoWccc8Jwo0&feature=youtu.be&t=1200>
- [6] Amazon's Mechanical Turk workers protest: 'I am a human being, not an algorithm'. The Guardian. December 2014.  
<http://www.theguardian.com/technology/2014/dec/03/amazon-mechanical-turk-workers-protest-jeff-bezos>
- [7] Amazon's Turkers Kick Off the First Crowdsourced Labor Guild. The Daily Beast. December 2014.  
<http://www.thedailybeast.com/articles/2014/12/03/amazon-s-turkers-kick-off-the-first-crowdsourced-labor-guild.html>
- [8] Amazon's Mechanical Turk workers want to be treated like humans. Engadget. December 2014.  
[http://www.engadget.com/2014/12/03/amazon-mechanical-turk-workers-ask-for-respect/?ncid=rss\\_truncated](http://www.engadget.com/2014/12/03/amazon-mechanical-turk-workers-ask-for-respect/?ncid=rss_truncated)
- [9] The Next Frontier in Crowdsourcing: Your Smartphone. MIT Technology Review. March 2014.  
<http://www.technologyreview.com/news/525481/the-next-frontier-in-crowdsourcing-your-smartphone/>
- [10] Service sorts messy email inbox into tidy to-do list. ABC 7 KGO-TV News, San Francisco, March 2013.  
<http://abclocal.go.com/kgo/story?section=news/technology&id=9015834>
- [11] 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)
- [12] What Makes a Great Tweet. Harvard Business Review, May 2012.
- [13] 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)

- [14] 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/>
- [15] Only About a Third of Tweets Are Worth Reading [STUDY]. Mashable, February 2012.  
<http://mashable.com/2012/02/01/third-of-tweets-worth-reading/>
- [16] 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/>
- [17] 4chanomics. Slate, June 2011.  
<http://www.slate.com/id/2297492>
- [18] 4 Online Services to Satisfy Your Vanity. CNN, January 2011.  
<http://edition.cnn.com/2011/TECH/social.media/01/12/vanity.netiquette/>
- [19] Are Your Tweets Boring Or Beneficial? Mashable, December 2010.  
<http://mashable.com/2010/12/30/who-gives-a-tweet/>
- [20] MIT Researchers Build A 'Hot Or Not' for Twitter. TechCrunch, December 2010.  
<http://techcrunch.com/2010/12/30/who-gives-a-tweet/>
- [21] 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/>
- [22] Adding Human Intelligence to Software. Technology Review, October 2010.  
<http://www.technologyreview.com/computing/26535/>
- [23] 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/)
- [24] 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)
- [25] 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>
- [26] What's in a Tweet? Technology Review, April 2010.  
<http://www.technologyreview.com/web/25189/>
- [27] 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>
- [28] Pourquoi les ordinateurs n'arrivent-ils pas à concurrencer les Post-it? Le Monde, March 2009.  
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- [32] Lifehacker.com: Featured Firefox Extension: list.it Synchronizes Firefox Notes in Firefox  
<http://lifehacker.com/5113054/listit-synchronizes-text-notes-in-firefox>
- [33] 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

- [1] Spring 2018  
CS547: Seminar on People, Computers, and Design. 80 students.
- [2] Winter 2018  
CS247: Human-Computer Interaction Design Studio. 81 students.  
CS547: Seminar on People, Computers, and Design. 80 students.

- [3] Fall 2017  
CS376: Research Topics in Human-Computer Interaction. 30 students.  
CS547: Seminar on People, Computers, and Design. 61 students.
- [4] Spring 2017  
CS547: Seminar on People, Computers, and Design. 99 students.
- [5] Winter 2017  
CS247: Human-Computer Interaction Design Studio. 120 students.  
CS547: Seminar on People, Computers, and Design. ~70 students.
- [6] Fall 2016  
CS376: Research Topics in Human-Computer Interaction. 36 students.  
CS547: Seminar on People, Computers, and Design. ~70 students.
- [7] Spring 2016  
CS547: Seminar on People, Computers, and Design. 92 students.
- [8] Winter 2016  
CS247: Human-Computer Interaction Design Studio. 120 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [9] Fall 2015  
CS247: Human-Computer Interaction Design Studio. 40 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [10] Spring 2015  
CS376: Research Topics in Human-Computer Interaction. 50 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [11] Winter 2015  
CS247: Human-Computer Interaction Design Studio (redesigned). ~130 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [12] Spring 2014  
CS376: Research Topics in Human-Computer Interaction. 60 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [13] Winter 2014  
CS147: Introduction to Human-Computer Interaction Design. 260 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [14] Fall 2013  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [15] Spring 2013  
CS376: Research Topics in Human-Computer Interaction. 58 students.  
CS547: Seminar on People, Computers, and Design. ~80 students.
- [16] Winter 2013  
CS247: Human-Computer Interaction Design Studio (with Jeff Heer). 79 students.

## Students

### Ph.D.: Current

- [1] Ali Alkhatib
- [2] Geza Kovacs
- [3] Ranjay Krishna
- [4] Sharon Zhou

### Ph.D.: Alumni

- [1] Niloufar Salehi, 2018. Assistant Professor at UC Berkeley.
- [2] Ethan Fast, 2018. NEX.
- [3] Justin Cheng, 2017. Facebook Data Science team. Co-advised with Jure Leskovec.
- [4] Daniela Retelny, 2017. B12. Co-advised with Melissa Valentine.

- [5] Joy Kim, 2017. Adobe Research.
- [6] Chinmay Kulkarni, 2015. Assistant Professor at Carnegie Mellon University. Co-advised with Scott Klemmer.

#### **Ph.D.: Rotation Students**

- [1] Spring 2018: Jingyi Li
- [2] Winter 2017: Mitchell Gordon, Ranjay Krishna
- [3] Fall 2016: Cody Coleman, Zhiyuan (Jerry) Lin
- [4] Fall 2014: Kesler Tanner, Ali Alkhatib
- [5] Spring 2014: Minjae Kim
- [6] Winter 2014: Geza Kovacs, Niloufar Salehi
- [7] Spring 2013: Vasilis Verroios
- [8] Winter 2013: Justin Cheng, Will McGrath, Jon Bassen, Joy Kim, Ethan Fast

#### **Postdoctoral Scholars: Current**

- [1] Mark Whiting

#### **Postdoctoral Scholars: Alumni**

- [2] Nicolas Kokkalis

#### **Group members who later pursued Ph.D. degrees**

- [1] Gobi Dasu, Northwestern University, 2018
- [2] Jay Patel, UC San Diego, 2018
- [3] Sharon Zhou, Stanford CS, 2017
- [4] Kenji Hata, Princeton CS, 2017
- [5] Catherine Mullings, Stanford CS, 2017
- [6] Mo Tiwari, Stanford CS, 2017
- [7] Allegra Cohen, University of Florida, 2017
- [8] Julia Cambre, Carnegie Mellon HCII, 2017
- [9] Neil Gaikwad, MIT Media Lab, 2016
- [10] Ranjay Krishna, Stanford CS, 2016
- [11] Sarah Serman, Berkeley EECS, 2016
- [12] Yasmine Kotturi, Carnegie Mellon HCII, 2016
- [13] Danae Metaxa-Kakavouli, Stanford CS, 2015
- [14] Alexandra To, Carnegie Mellon University HCII, 2015

#### **Masters student researchers**

- [1] Spring 2018: Don Lee
- [2] Winter 2018: Jay Patel, Don Lee, Mohana Prasad Sathya Murthy
- [3] Fall 2017: Jay Patel, Don Lee, Mohana Prasad Sathya Murthy
- [4] Spring 2017: Jay Patel, Don Lee, Govi Dasu
- [5] Winter 2017: Jay Patel, Don Lee, Govi Dasu
- [6] Fall 2016: Jay Patel, Ellen Blaine, Don Lee
- [7] Spring 2016: Ranjay Krishna, Kenji Hata, Sarah Serman
- [8] Winter 2015: Onkur Sen, Ranjay Krishna
- [9] Fall 2015: Onkur Sen, Ranjay Krishna
- [10] Spring 2015: Onkur Sen, Alexandra To, Ranjay Krishna
- [11] Winter 2015: Sarah Serman, Onkur Sen, Alexandra To, Negar Rahmati, Ranjay Krishna
- [12] Fall 2014: Sarah Serman, Onkur Sen, Alexandra To, Negar Rahmati, Ranjay Krishna
- [13] Summer 2014: Alexandra To, Negar Rahmati
- [14] Spring 2014: Negar Rahmati, Jay Patel

- [15] Winter 2014: Negar Rahmati, Deniz Kahramaner, Jingshu Chen, Jay Patel, Julie Fortuna
- [16] Fall 2013: Negar Rahmati, Deniz Kahramaner, Jingshu Chen
- [17] Spring 2013: Brandon Cheung, Sebástien Robaszkievicz

### **Undergraduate researchers**

- [1] Spring 2018: Sho Arora, Junwon Park, Jihyeon Lee, Michelle Lam
- [2] Winter 2018: Sho Arora, Junwon Park, Emily Hu, Jenny Han, Jihyeon Lee, Michelle Lam
- [3] Fall 2017: Sho Arora, Junwon Park, Emily Hu, Jenny Han, Jihyeon Lee, Michelle Lam
- [4] Summer 2017: Alison Chi, Jenny Han, Emily Hu, Matt Mistele, Radha Jain, Wenqin Chen, Julie Kim, Sara Valderrama, James Carroll
- [5] Spring 2017: Sho Arora, Kimberly Te, Catherine Xu, Lewin Carey, Kaylie Zhu, Junwon Park
- [6] Winter 2017: Julia Mendelsohn, Junwon Park, Brahm Kapoor, Sarah Tieu, Radha Jain, Catherine Xu, Swathi Iyer, Danna Xue
- [7] Fall 2016: Jared Bitz, Srinivas Malladi, Julia Mendelsohn, Albert Tung, Junwon Park, Lewin Cary, Sarah Tieu, Brahm Kapoor
- [8] Summer 2016: Jared Bitz, Srinivas Malladi, Andrew McCabe, Julia Mendelsohn, Anika Raghuvanshi, Sam Reamer, Albert Tung, Neven Wang-Tomic, Philip Weiss
- [9] Spring 2016: Bradley Emi, Albert Feng, Michelle Lam, Andrew McCabe, Jessica Zhang, Srinivas Malladi
- [10] Winter 2016: Adam Ginzberg, Michelle Lam, Margaret Shen, Jocelyn Hickcox, Connie Zeng
- [11] Fall 2015: Adam Ginzberg, Michelle Lam, Avi Bagla, Allegra Cohen, Margaret Shen, Jocelyn Hickcox, Connie Zeng, Kartik Sawhney
- [12] Summer 2015: Allegra Cohen, Yunha Hwang, Adam Ginzberg, Juan Carlos Marroquin, Michelle Lam, Michael Kim, Tina Vachovsky, Stephanie Chen, Joshua Kravitz
- [13] Spring 2015: Kenji Hata, Jocelyn Hickcox, Margaret Shen, Allegra Cohen, Tulsee Doshi, Ishita Prasad, Kartik Sawhney, Vincent Chen, Devangi Vivrekar, Avi Bagla, Yunha Hwang, Danae Metaxa-Kakavouli
- [14] Winter 2015: Kenji Hata, Sherman Leung, Margaret Shen, Jocelyn Hickcox, Allegra Cohen, Tulsee Doshi, Jare Fagbemi, Kylie Jue, Ishita Prasad, Kartik Sawhney, Avi Bagla, Michelle Guo, Danae Metaxa-Kakavouli
- [15] Fall 2014: Margaret Shen, Jocelyn Hickcox, Stephen Yang, Stephany Yong, Allegra Cohen, Tulsee Doshi, Jare Fagbemi, Danae Metaxa-Kakavouli
- [16] Summer 2014: Maggie Goulder, Pranav Rajpurkar, Eva Ogbe, Courtney Noh, Margaret Shen, Jocelyn Hickcox, Jay Moon, Kylie Jue, Danae Metaxa-Kakavouli
- [17] Spring 2014: Alexandra To, Julia Cambre, Keith Wyngarden
- [18] Winter 2014: Keith Wyngarden, Alexandra To, Julia Cambre, Tulsee Doshi, Lucas Throckmurton
- [19] Fall 2013: Keith Wyngarden, Alexandra To, Julia Cambre
- [20] Summer 2013: Keith Wyngarden, Lucas Throckmurton, Jimmy Lee, Lucy Wang, Daniel Steffee, Ryan Voldstad, Alexandra To, Julia Cambre

### **Master's theses**

- [1] Kenji Hata, Computer Science. 2017. Analyzing, Improving, and Leveraging Crowdsourced Visual Knowledge Representation. Co-advised with Fei-Fei Li.
- [2] Ranjay Krishna, Computer Science. 2016. Visual Genome: Crowdsourced Visual Knowledge Representations. Christofer Stephenson Memorial Award for best Stanford MSCS Thesis. Co-advised with Fei-Fei Li.
- [3] Alexandra To, Symbolic Systems. 2015. Experts On Demand: Enabling Flash Organizations with Rapid Onboarding.

### **Undergraduate honors theses**

- [1] Michelle Lam, Computer Science. 2018. Eevee: Transforming Images to Bridge High-level and Low-level Understanding.
- [2] Elaine Zhou, Computer Science. 2015. Bounding Creativity: Explicit and Implicit Constraints in the Design Process Yield More Novel Results.
- [3] Pranav Rajpurkar, Computer Science. 2015. Driverseat: Crowdstrapping Learning Tasks for Autonomous Driving.
- [4] Alexandra To, Symbolic Systems. 2014. Foundry: an authoring environment for expert crowd teams.

