

# Danyel Fisher

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## Research Interests

### CONNECTING BIG DATA AND VISUALIZATION

Topics include large-scale data analytics and visualization; high-density visuals; progressive data analytics; approximate query processing; uncertainty visualization.

### HOW USERS INTERACT WITH DATA

Visualization in practice; reducing abstract questions to specific tasks. Special topics include dashboards; data presentation; live coding notebooks; sequential data analysis; network analysis.

## Experience

### PRINCIPAL DESIGN RESEARCHER

2004-2018

Honeycomb

Created novel user experiences based on interviews, prototyping, and quantitative data analysis. Invented "BubbleUp", Honeycomb's signature tool for rapidly discovering the causes of failures. Designed, prototyped, and partially implemented features including SLO support and Service Map. Redesigned customer-facing documentation, and created sales and marketing training materials.

### SENIOR RESEARCHER

2004-2018

Microsoft Research, Redmond, WA

Carried out research on data visualization, influencing research on the connections between database architectures and data visualization, including progressive analysis. Created novel visualization tools for social networks, geographical data, event sequences, animation, and data storytelling. Influenced data visualization and extensibility architectures of Microsoft Office and PowerBI; shaped data analysis efforts across the company.

### RESEARCH INTERN

2002, 2000

IBM Research, Cambridge

### RESEARCH INTERN

1997

IBM Research, Almaden

### SOFTWARE DEVELOPMENT INTERN

1996

Microsoft, Redmond

## Education

### UNIVERSITY OF CALIFORNIA IRVINE, 2004

PhD in Information and Computer Science

Dissertation: "Social and Temporal Structures in Everyday Collaboration"

Advisor: Paul Dourish. Committee: Bonnie Nardi, David Redmiles

### UNIVERSITY OF CALIFORNIA, BERKELEY, 2000

MS in Engineering and Computer Science

### WASHINGTON UNIVERSITY, ST. LOUIS, 1997

BS IN COMPUTER SCIENCE

BA IN PHILOSOPHY

## Awards

### "TEST OF TIME" AWARD

IEEE VIS Conference, 2018. ([Award speech](#))

For "[Effectiveness of Animation in Trend Visualization](#)" (IEEE VIS 2008)

## Publications

### Books

D. Fisher, M. Meyer. *Making Data Visual: A Practical Guide to Using Visualization for Insight*. Sebastopol: O'Reilly Associates. 2018

C. Lueg, D. Fisher (edited, with introduction and conclusion). *From Usenet to Cowebs: Interacting with Social Information Spaces*. London: Springer. 2003

### Journals and Refereed Publications

A. Sarikaya, M. Correll, L. Bartram, M. Tory and D. Fisher, "What Do We Talk About When We Talk About Dashboards?," in *IEEE Transactions on Visualization and Computer Graphics*, vol. 25, no. 1, pp. 682-692, Jan. 2019, <http://doi.org/10.1109/TVCG.2018.2864903>

Bigelow, A., Drucker, S. M., Fisher, D., & Meyer, M. D. (2017). Iterating between Tools to Create and Edit Visualizations. *IEEE Transactions on Visualization and Computer Graphics*, 23(1), 481-490. <http://doi.org/10.1109/TVCG.2016.2598609>

Moritz, D., Fisher, D., Ding, B., & Wang, C. (2017). Trust, but Verify: Optimistic Visualizations of Approximate Queries for Exploring Big Data. In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems, Denver, CO, USA, May 06-11, 2017*. (pp. 2904-2915). ACM. <http://doi.org/10.1145/3025453.3025456>

Moritz, D., & Fisher, D. (2017). What Users Don't Expect about Exploratory Data Analysis on Approximate Query Processing Systems. In *Proceedings of the 2nd Workshop on Human-In-the-Loop Data Analytics, HILDA@SIGMOD 2017, Chicago, IL, USA, May 14, 2017* (p. 9:1--9:4). ACM. <http://doi.org/10.1145/3077257.3077258>

Battle, L., Fisher, D., DeLine, R., Barnett, M., Chandramouli, B., & Goldstein, J. (2016). Making Sense of Temporal Queries with Interactive Visualization. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems, San Jose, CA, USA, May 7-12, 2016* (pp. 5433-5443). ACM. <http://doi.org/10.1145/2858036.2858408>

Barik, T., DeLine, R., Drucker, S. M., & Fisher, D. (2016). The bones of the system: a case study of logging and telemetry at Microsoft. In *Proceedings of the 38th International Conference on Software Engineering, ICSE 2016, Austin, TX, USA, May 14-22, 2016 - Companion Volume* (pp. 92-101). ACM. <http://doi.org/10.1145/2889160.2889231>

Fisher, D. (2016). Big data exploration requires collaboration between visualization and data infrastructures. In *Proceedings of the Workshop on Human-In-the-Loop Data Analytics, HILDA@SIGMOD 2016, San Francisco, CA, USA, June 26 - July 01, 2016* (p. 16). ACM. <http://doi.org/10.1145/2939502.2939518>

Zraggen, E., Drucker, S. M., Fisher, D., & DeLine, R. (2015). (s|q)eries: Visual Regular Expressions for Querying and Exploring Event Sequences. In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems, CHI 2015, Seoul, Republic of Korea, April 18-23, 2015* (pp. 2683-2692). ACM. <http://doi.org/10.1145/2702123.2702262>

DeLine, R., & Fisher, D. (2015). Supporting exploratory data analysis with live programming. In *2015 IEEE Symposium on Visual Languages and Human-Centric Computing, VL/HCC 2015, Atlanta, GA, USA, October 18-22, 2015* (pp. 111-119). IEEE Computer Society. <http://doi.org/10.1109/VLHCC.2015.7357205>

DeLine, R., Fisher, D., Chandramouli, B., Goldstein, J., Barnett, M., Terwilliger, J. F., & Wernsing, J. (2015). Tempe: Live scripting for live data. *2015 IEEE Symposium on Visual Languages and Human-Centric Computing, VL/HCC 2015, Atlanta, GA, USA, October 18-22, 2015* (pp. 137-141). IEEE Computer Society. <http://doi.org/10.1109/VLHCC.2015.7357208>

Fisher, D., Drucker, S. M., & Czerwinski, M. (2014). Business Intelligence Analytics [Guest editors' introduction]. *IEEE Computer Graphics and Applications*, 34(5), 22-24. <http://doi.org/10.1109/MCG.2014.86>

Morris, M. R., Danielescu, A., Drucker, S. M., Fisher, D., Lee, B., m. c. schraefel, & Wobbrock, J. O. (2014). Reducing legacy bias in gesture elicitation studies. *Interactions*, 21(3), 40-45. <http://doi.org/10.1145/2591689>

- Bigelow, A., Drucker, S. M., Fisher, D., & Meyer, M. D. (2014). Reflections on how designers design with data. In *International Working Conference on Advanced Visual Interfaces, AVI 2014, Como, Italy, May 27-29, 2014* (pp. 17–24). ACM. <http://doi.org/10.1145/2598153.2598175>
- Ferreira, N., Fisher, D., & König, A. C. (2014). Sample-oriented task-driven visualizations: allowing users to make better, more confident decisions. In M. Jones, P. A. Palanque, A. Schmidt, & T. Grossman (Eds.), *CHI Conference on Human Factors in Computing Systems, CHI'14, Toronto, ON, Canada - April 26 - May 01, 2014* (pp. 571–580). ACM. <http://doi.org/10.1145/2556288.2557131>
- Kulesza, T., Amershi, S., Caruana, R., Fisher, D., & Charles, D. X. (2014). Structured labeling for facilitating concept evolution in machine learning. In M. Jones, P. A. Palanque, A. Schmidt, & T. Grossman (Eds.), *CHI Conference on Human Factors in Computing Systems, CHI'14, Toronto, ON, Canada - April 26 - May 01, 2014* (pp. 3075–3084). ACM. <http://doi.org/10.1145/2556288.2557238>
- Musson, R., Richards, J., Fisher, D., Bird, C., Bussone, B., & Ganguly, S. (2013). Leveraging the Crowd: How 48,000 Users Helped Improve Lync Performance. *IEEE Software*, 30(4), 38–45. <http://doi.org/10.1109/MS.2013.67>
- Hullman, J., Drucker, S. M., Riche, N. H., Lee, B., Fisher, D., & Adar, E. (2013). A Deeper Understanding of Sequence in Narrative Visualization. *IEEE Transactions on Visualization and Computer Graphics*, 19(12), 2406–2415. <http://doi.org/10.1109/TVCG.2013.119>
- Drucker, S. M., Fisher, D., Sadana, R., Herron, J., & m. c. schraefel. (2013). TouchViz: a case study comparing two interfaces for data analytics on tablets. In W. E. Mackay, S. A. Brewster, & S. Bødker (Eds.), *2013 ACM SIGCHI Conference on Human Factors in Computing Systems, CHI '13, Paris, France, April 27 - May 2, 2013* (pp. 2301–2310). ACM. <http://doi.org/10.1145/2470654.2481318>
- Barnett, M., Chandramouli, B., DeLine, R., Drucker, S. M., Fisher, D., Goldstein, J., ... Platt, J. C. (2013). Stat!: an interactive analytics environment for big data. In K. A. Ross, D. Srivastava, & D. Papadias (Eds.), *Proceedings of the ACM SIGMOD International Conference on Management of Data, SIGMOD 2013, New York, NY, USA, June 22-27, 2013* (pp. 1013–1016). ACM. <http://doi.org/10.1145/2463676.2463683>
- Fisher, D., Drucker, S. M., & König, A. C. (2012). Exploratory Visualization Involving Incremental, Approximate Database Queries and Uncertainty. *IEEE Computer Graphics and Applications*, 32(4), 55–62. <http://doi.org/10.1109/MCG.2012.48>
- Isonberg, P., Fisher, D., Paul, S. A., Morris, M. R., Inkpen, K., & Czerwinski, M. (2012). Co-Located Collaborative Visual Analytics around a Tabletop Display. *IEEE Transactions on Visualization and Computer Graphics*, 18(5), 689–702. <http://doi.org/10.1109/TVCG.2011.287>
- Zhao, J., Drucker, S. M., Fisher, D., & Brinkman, D. (2012). TimeSlice: interactive faceted browsing of timeline data. In G. Tortora, S. Levialdi, & M. Tucci (Eds.), *International Working Conference on Advanced Visual Interfaces, AVI 2012, Capri Island, Naples, Italy, May 22-25, 2012, Proceedings* (pp. 433–436). ACM. <http://doi.org/10.1145/2254556.2254639>
- Fisher, D., Popov, I. O., Drucker, S. M., & m. c. schraefel. (2012). Trust me, i'm partially right: incremental visualization lets analysts explore large datasets faster. In J. A. Konstan, E. H. Chi, & K. Höök (Eds.), *CHI Conference on Human Factors in Computing Systems, CHI '12, Austin, TX, USA - May 05 - 10, 2012* (pp. 1673–1682). ACM. <http://doi.org/10.1145/2207676.2208294>
- Isonberg, P., & Fisher, D. (2011). Cambiera: collaborative tabletop visual analytics. In P. J. Hinds, J. C. Tang, J. Wang, J. E. Bardram, & N. Ducheneaut (Eds.), *Proceedings of the 2011 ACM Conference on Computer Supported Cooperative Work, CSCW 2011, Hangzhou, China, March 19-23, 2011* (pp. 581–582). ACM. <http://doi.org/10.1145/1958824.1958916>
- Fisher, D., Drucker, S. M., Fernandez, R., & Ruble, S. (2010). Visualizations Everywhere: A Multiplatform Infrastructure for Linked Visualizations. *IEEE Transactions on Visualization and Computer Graphics*, 16(6), 1157–1163. <http://doi.org/10.1109/TVCG.2010.222>
- Basu, S., Fisher, D., Drucker, S. M., & Lu, H. (2010). Assisting Users with Clustering Tasks by Combining Metric Learning and Classification. In *Proceedings of the Twenty-Fourth AAAI Conference on Artificial Intelligence, AAAI 2010, Atlanta, Georgia, USA, July 11-15, 2010*. AAAI Press. <http://www.aaai.org/ocs/index.php/AAAI/AAAI10/paper/view/1918>

- Isenberg, P., Fisher, D., Morris, M. R., Inkpen, K., & Czerwinski, M. (2010). An exploratory study of co-located collaborative visual analytics around a tabletop display. In *Proceedings of the IEEE Conference on Visual Analytics Science and Technology, IEEE VAST 2010, Salt Lake City, Utah, USA, 24-29 October 2010, part of VisWeek 2010* (pp. 179–186). IEEE Computer Society. <http://doi.org/10.1109/VAST.2010.5652880>
- Sud, A., Fisher, D., & Lee, H.-P. (2010). Fast Dynamic Voronoi Treemaps. In M. A. Mostafavi (Ed.), *Seventh International Symposium on Voronoi Diagrams in Science and Engineering, ISVD 2010, Quebec, Canada, June 28-30, 2010* (pp. 85–94). IEEE Computer Society. <http://doi.org/10.1109/ISVD.2010.16>
- Dwyer, T., Lee, B., Fisher, D., Quinn, K. I., Isenberg, P., Robertson, G. G., & North, C. (2009). A Comparison of User-Generated and Automatic Graph Layouts. *IEEE Transactions on Visualization and Computer Graphics*, 15(6), 961–968. <http://doi.org/10.1109/TVCG.2009.109>
- Teevan, J., Cutrell, E., Fisher, D., Drucker, S. M., Ramos, G., André, P., & Hu, C. (2009). Visual snippets: summarizing web pages for search and revisitation. In D. R. O. Jr., R. B. Arthur, K. Hinckley, M. R. Morris, S. E. Hudson, & S. Greenberg (Eds.), *Proceedings of the 27th International Conference on Human Factors in Computing Systems, CHI 2009, Boston, MA, USA, April 4-9, 2009* (pp. 2023–2032). ACM. <http://doi.org/10.1145/1518701.1519008>
- Robertson, G. G., Fernandez, R., Fisher, D., Lee, B., & Stasko, J. T. (2008). Effectiveness of Animation in Trend Visualization. *IEEE Transactions on Visualization and Computer Graphics*, 14(6), 1325–1332. <http://doi.org/10.1109/TVCG.2008.125>
- Elias, M., Elson, J., Fisher, D., & Howell, J. (2008). Do I live in a flood basin?: synthesizing ten thousand maps. In M. Czerwinski, A. M. Lund, & D. S. Tan (Eds.), *Proceedings of the 2008 Conference on Human Factors in Computing Systems, CHI 2008, 2008, Florence, Italy, April 5-10, 2008* (pp. 255–264). ACM. <http://doi.org/10.1145/1357054.1357100>
- Baumer, E., & Fisher, D. (2008). Smarter Blogroll: An Exploration of Social Topic Extraction for Manageable Blogrolls. In *41st Hawaii International Conference on Systems Science (HICSS-41 2008), Proceedings, 7-10 January 2008, Waikoloa, Big Island, HI, USA* (p. 155). IEEE Computer Society. <http://doi.org/10.1109/HICSS.2008.398>
- Gamon, M., Basu, S., Belenko, D., Fisher, D., Hurst, M., & König, A. C. (2008). BLEWS: Using Blogs to Provide Context for News Articles. In *Proceedings of the Second International Conference on Weblogs and Social Media, ICWSM 2008, Seattle, Washington, USA, March 30 - April 2, 2008*. The AAAI Press. <http://www.aaai.org/Library/ICWSM/2008/icwsm08-015.php>
- Fisher, D., Hoff, A., Robertson, G. G., & Hurst, M. (2008). Narratives: A visualization to track narrative events as they develop. In *Proceedings of the IEEE Symposium on Visual Analytics Science and Technology, IEEE VAST 2008, Columbus, Ohio, USA, 19-24 October 2008* (pp. 115–122). IEEE Computer Society. <http://doi.org/10.1109/VAST.2008.4677364>
- Fisher, D. (2007). Hotmap: Looking at Geographic Attention. *IEEE Transactions on Visualization and Computer Graphics*, 13(6), 1184–1191. <http://doi.org/10.1109/TVCG.2007.70561>
- Fisher, D., Brush, A. J. B., Hogan, B., Smith, M. A., & Jacobs, A. (2007). Using Social Metadata in Email Triage: Lessons from the Field. In M. J. Smith & G. Salvendy (Eds.), *Human Interface and the Management of Information. Interacting in Information Environments, Symposium on Human Interface 2007, Held as Part of HCI International 2007, Beijing, China, July 22-27, 2007, Proceedings, Part II* (Vol. 4558, pp. 13–22). Springer. [http://doi.org/10.1007/978-3-540-73354-6\\_2](http://doi.org/10.1007/978-3-540-73354-6_2)
- Fisher, D., Smith, M. A., & Welsler, H. T. (2006). You Are Who You Talk To: Detecting Roles in Usenet Newsgroups. In *39th Hawaii International Conference on Systems Science (HICSS-39 2006), CD-ROM / Abstracts Proceedings, 4-7 January 2006, Kauai, HI, USA*. IEEE Computer Society. <http://doi.org/10.1109/HICSS.2006.536>
- Fisher, D. (2005). Using Egocentric Networks to Understand Communication. *IEEE Internet Computing*, 9(5), 20–28. <http://doi.org/10.1109/MIC.2005.114>

Wattenberg, M., & Fisher, D. (2003). A Model of Multi-Scale Perceptual Organization in Information Graphics. In *9th IEEE Symposium on Information Visualization (InfoVis 2003)*, 20-21 October 2003, Seattle, WA, USA (pp. 23–30). IEEE Computer Society. <http://doi.org/10.1109/INFVIS.2003.1249005>

Yee, K.-P., Fisher, D., Dhamija, R., & Hearst, M. A. (2001). Animated Exploration of Dynamic Graphs with Radial Layout. In K. Andrews, S. F. Roth, & P. C. Wong (Eds.), *IEEE Symposium on Information Visualization 2001 (INFOVIS'01)*, San Diego, CA, USA, October 22-23, 2001. (pp. 43–50). IEEE Computer Society. <http://doi.org/10.1109/INFVIS.2001.963279>

Fisher, D., Hildrum, K., Hong, J. I., Newman, M. W., Thomas, M., & Vuduc, R. (2000). SWAMI: a framework for collaborative filtering algorithm development and evaluation. In E. J. Yannakoudakis, N. J. Belkin, P. Ingwersen, & M.-K. Leong (Eds.), *SIGIR 2000: Proceedings of the 23rd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, July 24-28, 2000, Athens, Greece* (pp. 366–368). ACM. <http://doi.org/10.1145/345508.345658>

### Editorships

D. Fisher, S. Drucker and M. Czerwinski, "Business Intelligence Analytics," in *IEEE Computer Graphics and Applications*, vol. 34, no. 5, pp. 22-24, Sept.-Oct. 2014. <http://doi.org/10.1109/MCG.2014.86>

### Invited Chapters & Journal Articles

D. Fisher. "BubbleUp: Supporting DevOps With Data Visualization." *IEEE Computer Graphics and Applications* 41(1): 99-105 (2021) <https://doi.org/10.1109/MCG.2020.3024039>

J.-D. Fekete, D. Fisher, A. Nandi, M. Sedlmair. *Progressive Data Analysis and Visualization*. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2019, <https://doi.org/10.4230/DagRep.8.10.1>

D. Fisher. "Understanding the User". In G. Andrienko, N. Andrienko, et al. "Big Data Visualization and Analytics: Future Research Challenges and Emerging Applications". 3rd Intl. Workshop on Big Data Visual Exploration & Analytics (BigVis 2020). [\[PDF\]](#)

D. Fisher. "[Animation for Visualization: Opportunities and Drawbacks](#)." In J. Steele and N. Illinski, eds. *Beautiful Visualization*. Sebastopol: O'Reilly Press, 2010.

D. Fisher, R. DeLine, M. Czerwinski, S. Drucker. "Interactions with Big Data Analytics." *Interactions* vol 19 no. 3. pp 50-59. May 2012. <https://doi.org/10.1145/2168931.2168943>

G. Robertson, M. Czerwinski, D. Fisher, B. Lee. "Selected Human Factors in Information Visualization." In *Reviews of Human Factors & Ergonomics*, vol. 5, issue 1, pp 41-81. Sept 1, 2009. <https://doi.org/10.1518/155723409X448017>

D. Fisher and B. Nardi. "Soylent and ContactMap – Tools for Constructing the Social Workscape" in V. Kaptalenin and M. Czerwinski, eds. *Beyond the Desktop Metaphor*. Cambridge: MIT Press, 2006.

D. Fisher. "Communications Technologies." In D. Levinson and K. Christensen. *Encyclopedia of Community: From the Village to the Virtual World, Volume 1*. Sage Publications. 2003.

### Popular and Technical Press

D. Fisher. "How the '3 Pillars of Observability' Miss the Big Picture." *The New Stack*, 2020. <https://thenewstack.io/how-the-3-pillars-of-observability-miss-the-big-picture/>

D. Fisher. "Observability and the Misleading Promise of AIOps." *The New Stack*, 2020. <https://thenewstack.io/observability-and-the-misleading-promise-of-aiops/>

## Conference and Journal Organization and Service

### Workshops Organized

IEEE LDAV (Large Scale Data Analysis and Visualization) Workshop 2018 at IEEE Vis 2018  
Co-organized with Jean-Daniel Fekete, Arnab Nandi, and Michael Sedlmair

Dagstuhl Seminar on Progressive Data Analysis and Visualization 2018  
Co-organized with Jean-Daniel Fekete, Arnab Nandi, and Michael Sedlmair

The Event Event: Temporal and Sequential Event Analysis at IEEE Vis 2016

Co-organized with Adam Perer, Steven Drucker, and David Gotz

DSIA (Data Systems for Interactive Analysis) at IEEE VIS 2017

Co-Organized with Remco Cheng, Jeff Heer, and Carlos Scheidegger

DSIA (Data Systems for Interactive Analysis) at IEEE VIS 2017

Co-Organized with Remco Cheng, Jeff Heer, and Carlos Scheidegger

Workshop on Social Networks at ACM CSCW. 2004

Co-Organized with David McDonald and Shelly Farnham

Social Network Workshop at ECSCW 2003

Co-Organized with David McDonald

Dealing with Community Data at CSCW 2000

Co-Organized with A. Bruckman, T. Erickson, and C. Lueg.

## **Panels Organized**

VAST Special Session: Industrial Success Stories in the American Southeast: Visual "Atlanta"-lytics at IEEE VisWeek 2013

Speakers: J. Walker (Adobe), M. Martimo (Airsage), L. Ide (Rimidi), A. Dash (Reed)

InfoVis Special Session: Tales from the Trenches at IEEE VisWeek 2012

Speakers: J. Hopson (Bungie), K. Rees (Periscopic), L. Williams (Tableau), P. Speyer (IHME)  
IEEE VisWeek

VAST Special Session: Visual Analytics in Practice at IEEE VisWeek 2012

Speakers: J. Alcock (Appature), J. Schwabisch (Congressional Budget Office),  
K. Lynagh (Keming Labs), S. Wahid (Bloomberg)

Industry Presentations: A View for the Future at IEEE VisWeek 2012

Speakers: F. van Ham (IBM), J. Miller (Intel), W. Schroeder (Kitware), J. Mackinlay (Tableau)  
IEEE VisWeek

Tapping the Social Web for CSCW Research: Terms of Service, Ethics, and Bias at CSCW 2010

Co-Organized with D. McDonald

Speakers: Elizabeth Churchill, Karrie Karaholios, Cliff Lampe, Andrew Brooks, and Amy Bruckman.

## **Chairing**

Panels Chair, IEEE VIS 2018

Video Showcase Chair, ACM CHI 2017, 2018

Industry Chair, IEEE VisWeek 2012-2014 (founding chair; now named "Vis in Practice")

Doctoral Colloquium Panelist, IEEE VIS 2013

Workshops Chair, IEEE VisWeek 2010, 2011, 2012

Doctoral Colloquium Panelist, ACM CSCW 2012

Demonstrations Chair, ACM CSCW 2012

Publications Chair, ACM CSCW 2010

## **Program Committee**

SIGMOD 2018

HILDA (Human-in-the-Loop Data Analytics) 2017, 2018

IEEE VIS (Infovis) 2011, 2012, 2013, 2014, 2017, 2018

ACM CSCW 2010, 2012, 2014

Eurovis 2014

## **Other Reviewing**

CHI Conference, 2000-2022

IEEE VIS (Infovis), 2006-2022

CSCW 2000-2014

TVCG, 2010-2018

C&T (Communities & Technologies), 2009

Social Intelligence and Technology, 2013  
WWW, 2010  
National Science Foundation (USA)  
National Sciences and Engineering Research Council (Canada)

## Invited Speaker

**Selected Invited** [Pitfalls in Measuring SLOs](#)

**Speaking** QCon London, 2020

**(Conferences and Workshops)** [Fast and Simple Deployments: Observing Code at Honeycomb](#)

Trajectory Live 2020

[Making Sense of Data: the Human Side of Data Analysis](#)

IPAM Workshop on Culture Analytics 2016

Microsoft Data Insights Summit 2016

[Why Exploring Big Data is Hard \(and What We Can Do About It\)](#)

OpenVis Conference 2015

What Designers and Data Scientists Can Learn from Each Other

O'Reilly Strata+Hadoop World Conference 2015

How Designers Design with Data

EyeO Conference (Lunchtime 'Sponsor' session, by O'Reilly publishers) 2014

Big Data: Visualization Techniques

Guest Lecturer at University of Washington HCDE 548 ("Information Visualization") 2014

Chalmers Initiative Seminar on Big Data 2014

[What Data Visualization is For: A Perceptual Overview and a Handful of Examples](#)

Institute for Health Metrics and Evaluation Guest Speaker Series 2013

(Big Data) Presentation is Different from (Big Data) Exploration

IEEE VisWeek Panel: The Role of Visualization in the Big Data Era: An End to a Means or a Means to an End? 2013

Why System Building matters to HCI, and Vice Versa

Invited Keynote at MexIHC: The Fourth Mexican Congress on Human-Computer Interaction 2012

[Big Data Analytics](#)

Design Research Conference: IIT Institute of Design. 2012

[Bridging Academia and Industry](#)

Invited Guest, "Data Stories Podcast", episode 9, 2012

Big Data: Information Visualization

IConference Panel: [Big Data](#), 2011

WebCharts: Extending Applications with Web-Authored, Embeddable Visualizations

Microsoft Research Faculty Summit: *Visualization and Interaction Today—Selected Perspectives on NUI*, 2010

Data Cartography: The View from HCI

The Joint Statistical Meeting of the American Statistical Association Panel: *Statistics and Visualization*, 2009

Using Metadata to Orient Search: Geography & Faceted Search

Microsoft Research Faculty Summit Panel: *Beyond Search - Seeking and Locating Information in Context*, 2007

Understanding and Visualizing Community Activity  
University of Washington DUB Talk Series, 2007

Data Flow in the Real World: Why Scripting, SQL, and Sociology Go So Well Together  
University of Washington Center for Statistics and the Social Sciences, 2006

## Mentoring

### Interns

Dominik Moritz (2016, 2017), PhD in process  
Leilani Battle (2015), PhD 2017, now at University of Maryland  
Alper Sarikaya (2014), PhD 2017, now at Microsoft PowerBI  
James Davenport (2013), PhD 2015, now at Western Washington University  
Nivan Ferreira (2013), PhD 2015, now at Universidade Federal de Pernambuco  
Igor Popov (2012), PhD 2013, now at Duedil  
Ramik Sadana (2012), PhD in process  
Chinmay Kulkarni (2010), PhD 2015, now at CMU  
Xiaoji Chen (2010), MS 2011, now at Uber  
Sharoda Paul (2009), PhD 2009, now at PARC  
Uta Hinrichs (2009), PhD 2012, now at St. Andrews  
Petra Isenberg (2008), PhD 2009, now at INRIA  
Xiaoyu Wang (2007), PhD 2011, now at UNC Charlotte  
Eric Baumer (2006), PhD 2009, now at Lehigh University  
Bernie Hogan (2005), PhD 2008, now at Oxford Internet Institute  
Howard Welser (2005), PhD 2008, now at Ohio University

## Patents

**Patents Granted (by Grant Date)** FAST APPROXIMATE RESULTS AND SLOW PRECISE RESULTS (10552435)  
Chi Wang, Bolin Ding, Danyel A. Fisher, Robyn Dominik Moritz. 2020.

DIFFERENCE VISUALIZATION BETWEEN DATA SETS (10453228)  
Bolin Ding, Chi Wang, Danyel A. Fisher, Robyn Dominik Moritz. 2019.

GESTURES INVOLVING DIRECT INTERACTION WITH A DATA VISUALIZATION (10437445)  
Steven M. Drucker, Danyel A. Fisher, et al. 2019.

DASHBOARD CONTROLS TO MANIPULATE VISUAL DATA (10114875)  
Gur Kimchi, Danyel Fisher, et al. 2018.

PARTICLE BASED VISUALIZATION OF ABSTRACT INFORMATION (9589378)  
Steven M Drucker, Roland Fernandez, Danyel A Fisher. 2017.

GENERATING VORONOI TREEMAPS (9569868)  
Avneesh Sud, Danyel A Fisher. 2017.

GESTURES INVOLVING DIRECT INTERACTION WITH A DATA VISUALIZATION (9760262)  
Steven M. Drucker, Danyel A. Fisher, et al 2017.

PROGRESSIVE QUERY COMPUTATION USING STREAMING ARCHITECTURES (9607045)  
Danyel A. Fisher, Steven M. Drucker, et al. 2017.

VISUALIZATION OF CHANGING CONFIDENCE INTERVALS (9436740)



- Danyel A. Fisher, Arnd Christian König, Steven Drucker. 2016.
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