Adam Perer

Human-Computer Interaction InstituteEmail:adamperer@cmu.eduSchool of Computer ScienceWeb:http://perer.orgCarnegie Mellon UniversityLab:http://dig.cmu.edu5000 Forbes Ave, Pittsburgh, PA 15213Citizenship:U.S.A.

EDUCATION

Ph.D. in Computer Science. University of Maryland, College Park, MD

August 2008

Dissertation: "Integrating Statistics and Visualization to Improve Exploratory Social Network Analysis"

Advisor: Ben Shneiderman, Committee: Ben Bederson, Lise Getoor, Jen Golbeck, Alan Neustadtl

M.S. in Computer Science, University of Maryland, College Park, MD May 2005

B.S. in Computer Science, Case Western Reserve University, Cleveland, OH May 2002

POSITIONS

Assistant Research Professor at Carnegie Mellon University, Pittsburgh, PA	2018-Present
Research Scientist at IBM Research, Yorktown Heights, NY	2011-2018
Adjunct Professor at Carnegie Mellon University, Pittsburgh, PA	2016-2018
Lecturer at University of Pennsylvania, <i>Philadelphia</i> , <i>PA</i>	2017
Research Scientist at IBM Research, Cambridge, MA	2010-2011
Research Scientist at IBM Research, Haifa, Israel	2008-2010
Research Intern at Microsoft Research, Redmond, Washington	2005,2006
Research Intern at Xerox PARC, Palo Alto, California	2004
Research Intern at Institute for Defense Analyses, Alexandria, Virginia	2003
Research Intern at Zaxel Systems, Inc, Pittsburgh, Pennsylvania	2002
Research Intern at TerraSim Inc., Pittsburgh, Pennsylvania	2001
Research Intern at Carnegie Mellon University's Robotics Institute, Pittsburgh, Pennsylvania	1999-2000
Research Intern at Carnegie Mellon University's Dept of Physics, Pittsburgh, Pennsylvania	1997-1998

PUBLICATIONS

BOOK CHAPTERS

- B.1 **Adam Perer** and Fred Hohman. Visualization for Machine Learning. In *Human-Centered Machine Learning*. Cambridge University Press. *In Preparation*.
- B.2 Jianying Hu, **Adam Perer**, and Fei Wang. Data Driven Analytics for Personalized Healthcare. In *Healthcare Informatics Management Systems: 4th Edition*. Springer. September 2015.
- B.3 **Adam Perer**. Finding Beautiful Insights in the Chaos of Social Network Visualizations. In *Beautiful Visualization*. O'Reilly Press. June 2010.

JOURNAL PAPERS (REFEREED)

- J.1 Hong Shen, Haojian Jin, Ángel Alexander Cabrera, **Adam Perer**, Haiyi Zhu, and Jason I. Hong. 2020. Designing Alternative Representations of Confusion Matrices to Support Non-Expert Public Understanding of Algorithm Performance. ACM on Human-Computer Interaction. Presented at ACM CSCW. (2020).
- J.2 Dylan Cashman, **Adam Perer**, Remco Chang, Hendrik Strobelt. Ablate, Variate, and Contemplate: Visual Analytics for Discovering Neural Architectures. IEEE Transactions in Visualization and

- Computer Graphics (IEEE TVCG). Presented at IEEE Visual Analytics Science and Technology (VAST). (2019).
- J.3 Barbara Han, Subhabrata Majumdar, Flavio Calmon, Benjamin Glicksberg, Raya Horesh, Abhishek Kumar, **Adam Perer**, Elisa von Marschall, Dennis Wei, Aleksandra Mojsilović, Kush Varshney. Confronting data sparsity to identify potential sources of Zika virus spillover infection among primates. Epidemics. (2019).
- J.5 Bum Chul Kwon, Ben Eysenbach, Janu Verma, Kenney Ng, Christopher deFilippi, Walter F. Stewart, and **Adam Perer**. Clustervision: Visual Supervision of Unsupervised Clustering. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). Presented at IEEE Visual Analytics Science and Technology (VAST). (2017).
- J.6 Fan Du, Ben Shneiderman, Catherine Plaisant, Sana Malik, and **Adam Perer**. Coping with Volume and Variety in Temporal Event Sequences: Strategies for Sharpening Analytic Focus. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). (2017).
- J.7 Josua Krause, **Adam Perer**, and Harry Stavropoulous. Supporting Iterative Cohort Construction with Visual Temporal Queries. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). Presented at IEEE Visual Analytics Science and Technology (VAST). (2015).
- J.8 **Adam Perer**, Fei Wang, and Jianying Hu. Mining and Exploring Care Pathways from Electronic Medical Records with Visual Analytics. Journal of Biomedical Informatics (JBI). (2015).
- Josua Krause, **Adam Perer**, and Enrico Bertini. INFUSE: Interactive Feature Selection for Predictive Modelling of High Dimensional Data. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). Presented at IEEE Visual Analytics Science and Technology (VAST). (2014).
- J.10 Charles Stolper, **Adam Perer**, and David Gotz. Progressive Visual Analytics: User-Driven Visual Exploration of In-Progress Analytics. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). Presented at IEEE Visual Analytics Science and Technology (VAST). (2014).
- J.11 David Gotz, Fei Wang, and **Adam Perer**. A Methodology for Interactive Mining and Visual Analysis of Clinical Event Patterns using Electronic Health Records Data. Journal of Biomedical Informatics (JBI). (2014).
- J.12 Zhiyuan Zhang, David Gotz, and **Adam Perer**. Interactive Cohort Analysis and Exploration. Journal of Information Visualization (IVS). (2014).
- J.13 Jimeng Sun, Candace D McNaughton, Ping Zhang, Adam Perer, Aris Gkoulalas-Divanis, Joshua C
 Denny, Jacqueline Kirby, Thomas Lasko, Alexander Saip, Bradley A Malin. Predicting changes in
 hypertension control using electronic health records from a chronic disease management program. Journal of the American Medical Informatics Association (JAMIA). 21(2): 337-344 (2014)
- J.14 Jeffrey Heer and **Adam Perer**. ORION: A System for Modeling, Transformation and Visualization of Multi-dimensional Heterogeneous Networks. Information Visualization Journal. 13(2): 111-133. (2014).
- J.15 Adam Perer, Ido Guy, Erel Uziel, Inbal Ronen, Michal Jacovi. The Longitudinal Use of SaNDVis: Visual Social Network Analytics in the Enterprise. IEEE Transactions in Visualization and Computer Graphics (IEEE TVCG). (2013).
- J.16 **Adam Perer** and Ben Shneiderman. Integrating Statistics and Visualization for Exploratory Power: From Long-Term Case Studies to Design Guidelines. IEEE Computer Graphics and Applications (CG&A): Special Issue on Visual Analytics Evaluation. 29(3): 39-51 (2009).
- J.17 **Adam Perer**, Ben Shneiderman, Douglas W. Oard: Using rhythms of relationships to understand e-mail archives. Journal of the American Society for Information Science and Technology (JASIST) 57(14): 1936-1948 (2006).

CONFERENCE PAPERS (REFEREED)

C.1 Gregory Plumb, Maruan Al-Shedivat, Ángel Alexander Cabrera, **Adam Perer**, Eric Xing, Ameet
Adam Perer – Curriculum Vitae – 2

- Talwalkar. Regularizing Black-box Models for Improved Interpretability. Advances in Neural Information Processing Systems (NeurIPS 2020). Vancouver, Canada. (2020).
- C.2 Laura Beth Fulton, Ja Young Lee, Qian Wang, Zhendong Yuan, Jessica Hammer, **Adam Perer**.

 Getting Playful with Explainable AI: Games with a Purpose to Improve Human Understanding of AI. Extended Abstracts of ACM Conference on Human Factors in Computing Systems (CHI 2020). Honolulu, HI (2020).
- C.3 Joseph Chee Chang, Nathan Hahn, **Adam Perer**, Aniket Kittur. SearchLens: Composing and Capturing Complex User Interests for Exploratory Search. ACM Conference on Intelligent User Interfaces (IUI 2019). Los Angeles, USA. (2019).
- C.4 Luana Micallef, Hans-Jorg Schulz, Marco Angelini, Michael Aupetit, Remco Chang, Jorn Kohlhammer, **Adam Perer**, Giuseppe Santucci. The Human User in Progressive Visual Analytics. Eurographics Counference on Visualization (EuroVis 2019). Porto, Portugal. (2019).
- C.5 Josua Krause, **Adam Perer**, and Kenney Ng. Interacting with Predictions: Visual Inspection of Black-box Machine Learning Models. ACM Conference on Human Factors in Computing Systems (CHI 2016). San Jose, California. (2016).
- C.6 Adam Perer and Fei Wang. Frequence: Interactive Mining and Visualization of Temporal Frequent Event Sequences. ACM Conference on Intelligent User Interfaces (IUI 2014). Haifa, Israel. (2014)
- C.7 Yiqin Yu, Haifeng Liu, Jing Li, Xiang Li, Jing Mei, Guotong Xie, **Adam Perer**, Fei Wang, and Jianying Hu. Care Pathway Workbench: Evidence Harmonization from Guideline and Data. European Medical Informatics Conference (MIE 2014). Istanbul, Turkey (2014).
- C.8 **Adam Perer** and David Gotz. Data-Driven Exploration of Care Plans for Patients. Extended Abstracts of ACM Conference on Human Factors in Computing Systems (CHI 2013). Paris, France. (2013).
- C.9 **Adam Perer**, Jimeng Sun. MatrixFlow: Temporal Network Visual Analytics to Track Symptom Evolution during Disease Progression. American Medical Informatics Association Annual Symposium (AMIA 2012). Chicago, Illinois. (2012).
- C.10 Michael Muller, Kate Ehrlich, Ido Guy, Tara Matthews, **Adam Perer**, Inbal Ronen. Diversity among Enterprise Online Communities: Collaborating, Teaming, and Innovating through Social Media. ACM Conference on Human Factors in Computing Systems (CHI 2012). Austin, Texas. (2012).
- C.11 **Adam Perer**, Ido Guy, Erel Uziel, Inbal Ronen, Michal Jacovi: Visual Social Network Analytics for Relationship Discovery in the Enterprise. IEEE Conference on Visual Analytics Science and Technology (VAST 2011). Providence, Rhode Island, USA. (2011). **Best Paper Honorable Mention.**
- C.12 Jeffrey Heer, **Adam Perer**: Orion: A System for Modeling, Transformation and Visualization of Multidimensional Heterogeneous Networks. IEEE Conference on Visual Analytics Science and Technology (VAST 2011). Providence, Rhode Island, USA. (2011).
- C.13 Michal Jacovi, Ido Guy, **Adam Perer**, Inbal Ronen, Erel Uziel and Michael Maslenko. Digital Traces of Interest: Deriving Interest Relationships from Social Media Interactions. European Conference on Computer-Supported Cooperative Work (ECSCW 2011). Aarhus, Denmark. (2011).
- C.14 Ido Guy, Adam Perer, Tal Daniel, Ohad Greenshpan, Itai Turbahn: Guess Who? Enriching the Social Graph through a Crowdsourcing Game. ACM Conference on Human Factors in Computing Systems (CHI 2011). Vancouver, Canada. (2011).
- C.15 Ido Guy, Sigalit Ur, Inbal Ronen, **Adam Perer**, Michal Jacovi: Do You Want to Know? Recommending Strangers in the Enterprise. ACM Conference of Computer Supported Cooperative Work (CSCW 2011). Hangzhou, China. (2011).
- C.16 Ido Guy, Michal Jacovi, **Adam Perer**, Inbal Ronen and Erel Uziel: Same Places, Same Things, Same People? Mining User Similarity on Social Media. ACM Conference of Computer Supported Cooperative Work (CSCW 2010). Savannah, Georgia, USA. (2010).
- C.17 Frank van Ham and **Adam Perer**: "Search, Show Context, Expand on Demand": Supporting Large Graph Exploration with Degree-of-Interest. IEEE Conference on Information Visualization (Infovis 2009). Atlantic City, New Jersey, USA. (2009).
- C.18 Marc A. Smith, Ben Shneiderman, Natasha Milic-Frayling, Eduarda Rodrigues, Vladimir Barash,

- Cody Dunne, Tony Capone, **Adam Perer** and Eric Gleave: Analyzing (Social Media) Networks with NodeXL. International Conference on Communities and Technologies (C&T 2009). University Park, Pennsylvania, USA. (2009).
- C.19 **Adam Perer** and Ben Shneiderman. Integrating Statistics and Visualization: Case Studies of Gaining Clarity During Exploratory Data Analysis. ACM Conference on Human Factors in Computing Systems (CHI 2008). Florence, Italy. (2008).
- C.20 **Adam Perer** and Ben Shneiderman. Systematic Yet Flexible Discovery: Guiding Domain Experts Through Exploratory Data Analysis. International Conference on Intelligent User Interfaces (IUI 2008). Gran Canaria, Canary Islands, Spain. (2008).
- C.21 **Adam Perer** and Ben Shneiderman: Balancing Systematic and Flexible Exploration of Social Networks. IEEE Transactions on Visualization and Computer Graphics (InfoVis 2006). 12(5): 693-700. Baltimore, Maryland, USA. (2006).
- C.22 Adam Perer and Marc A. Smith: Contrasting portraits of email practices: visual approaches to reflection and analysis. International Conference on Advanced Visual Interfaces (AVI 2006): 389-395. Venice, Italy. (2006)
- C.23 **Adam Perer** and Ben Shneiderman. Improving Interactive Exploration of Social Networks. International Sunbelt Social Network Conference (SUNBELT). Vancouver, Canada (2006).
- C.24 Adam Perer: Making sense of social networks. Extended Abstracts of ACM conference on Human factors in computing systems (CHI 2006): 1779-1782. Montreal, Canada (2006).
- C.25 Eric Bier and **Adam Perer**. Icon Abacus: positional display of document attributes. Proceedings of the 5th ACM/IEEE Joint Conference on Digital Libraries (JCDL 2005): 289-290. Denver, Colorado, USA (2005).

WORKSHOP PAPERS (REFEREED)

- W.1 Hong Shen, Ángel Alexander Cabrera, **Adam Perer**, Jason Hong. "Public(s)-in-the-Loop": Facilitating Deliberation of Algorithmic Decisions in Contentious Public Policy Domains. Fair & Responsible AI Workshop at CHI 2020. Honolulu, Hawaii. (2020).
- W.2 Hendrik Strobelt, Sebastian Gehrmann, Michael Behrisch, **Adam Perer**, Hanspeter Pfister, Alexander M. Rush. Debugging Sequence-to-Sequence Models with Seq2Seq-Vis. EMNLP Workshop on the analysis and interpretation of neural networks for Natural Language Processing. Brussels, Belgium. (2018).
- W.3 Josua Krause, **Adam Perer** and Enrico Bertini. A User Study on the Effect of Aggregating Explanations for Interpreting Machine Learning Models. KDD Workshop on Interactive Data Exploration and Analytics (IDEA). London, UK. (2018).
- W.4 **Adam Perer**, Bum Chul Kwon, Janu Verma, Kenney Ng, Ben Eysenbach, Christopher deFilippi, Walter Stewart. Visual Supervision of Unsupervised Clustering of Patients with Clustervision. Machine Learning for Healthcare (MLHC). Boston, MA. (2017)
- W.5 Bum Chul Kwon, Ben Eysenbach, Janu Verma, Kenney Ng, and **Adam Perer**. Interactive Unsupervised Clustering with Clustervision. KDD Workshop on Interactive Data Exploration and Analytics (IDEA). Halifax, Canada. (2017).
- W.6 **Adam Perer**, Bum Chul Kwon, Janu Verma. The Critical Role of Data Mining for Analyzing Real-World Event Sequences. IEEE VIS Workshop on Temporal & Sequential Event Analysis (The Event Event). Baltimore, MD. (2016).
- W.7 Bum Chul Kwon, Janu Verma and **Adam Perer**. Peekquence: Visual Analytics for Event Sequence Data. KDD Workshop on Interactive Data Exploration and Analytics (IDEA). San Francisco, CA. (2016).
- W.8 Josua Krause, **Adam Perer** and Kenney Ng. Interacting with Predictions: Visual Inspection of Black-box Machine Learning Models. KDD Workshop on Interactive Data Exploration and Analytics (IDEA). San Francisco, CA. (2016).
- W.9 Josua Krause, **Adam Perer** and Enrico Bertini. Using Visual Analytics to Interpret Predictive Machine Learning Models. ICML Workshop on Human Interpretability in Machine Learning. New York, NY. (2016).
- W.10 Stein Olav Skrovseth, **Adam Perer**, Conor P. Delaney, Arthur Revhaug, Rolv-Ole Lindsetmo and Adam Perer Curriculum Vitae 4

- Knut Magne Augestad. Detecting Novel Associations for Surgical Hospital Readmissions in Large Datasets by Interactive Visual Analytics. AMIA Workshop on Visual Analytics in Healthcare. Washington, DC. (2014).
- W.11 **Adam Perer**. The Value of Integrating Analytics and Visualizations for Understanding Electronic Medical Records: Why, When, and Which?. IEEE VIS Workshop on EHRVis: Visualizing Electronic Health Record Data. Paris, France. (2014).
- W.12 **Adam Perer** and David Gotz. Visualizations to Support Patient-Clinician Communication of Care Plans. ACM CHI 2013 Workshop on Patient-Clinician Communication. Paris, France. (2013).
- W.13 Zhiyuan Zhang, David Gotz and **Adam Perer**. "Interactive Visual Patient Cohort Analysis". Workshop on Visual Analytics in Healthcare. IEEE VisWeek 2012. Seattle, Washington (2012).
- W.14 **Adam Perer**. Healthcare Analytics for Clinical and Non-Clinical Settings. Bridging Clinical and Non-clinical Health Practice Workshop at CHI 2012. Austin, Texas, USA. (2012).
- W.15 **Adam Perer**. The Value of Analyzing Behavior on Multiple Social Mediating Technologies. Social Mediating Technologies: Developing the Research Agenda Workshop at CHI 2009. Boston, Massachusetts, USA. (2009).
- W.16 **Adam Perer**, Ben Shneiderman. Supporting Exploration in Social Data Analysis. Social Data Analysis Workshop at CHI 2008. Florence, Italy. (2008).
- W.17 **Adam Perer**. Analyzing the Networked: Visual Techniques for Understanding the Social Structure of Social Software. Public Practices, Social Software: Examining social practices in networked publics. 3rd Annual Communities and Technologies Conference. East Lansing, Michigan, USA. (2007).
- W.18 **Adam Perer**, Ben Shneiderman. Orderly Analysis of Social Visualizations. Social Visualization Workshop at CHI 2006. Montreal, Canada. (2006).

TUTORIALS

- T.1 Steffen Oeltze-Jafra, Uli Niemann, Jurgen Bernard, **Adam Perer**. Visual Analytics of Medical Cohort Study Data: From Individuals to Populations. IEEE Visualization (VIS 2017). Phoenix, Arizona (2017). https://projects.iccas.de/dpm/tutorials/IEEEVis2017/
- T.2 Jesus Caban, David Gotz, **Adam Perer**. Introduction to Visual Analytics in Healthcare. American Medical Informatics Association Annual Symposium (AMIA 2015). San Francisco, California. (2015).

PANELS

- P.1 Organizer. **Adam Perer**, Beatriz Sousa Santos, Eytan Adar, Polo Chau, Min Chen, Daniela Oelke. Visualization for Data Scientists: How specific is it? Eurographics Conference on Visualization (EuroVis 2020). Norrökoping. Sweden (2020).
- P.2 **Adam Perer**, Fei Sha, Klaus Mueller, Srinivasan Parthasarathy, Tamara Munzner. Exploratory Data Analysis. Workshop on Exploratory Data Analysis. SIAM Conference on Data Mining (SDM 2014). Philadelphia, PA. (2014).
- P.3 **Adam Perer,** David Gotz, Diana MacLean, Yuval Shahar, Ben Shneiderman. Visual Analytics in Healthcare. American Medical Informatics Association Annual Symposium (AMIA 2012). Chicago, Illinois. (2012).

DEMOS, POSTERS, AND CHALLENGES (REFEREED)

- D.1 Denis Newman-Griffis, Venkatesh Sivaraman, **Adam Perer**, Eric Fosler-Lussier and Harry Hochheiser. TextEssence: A Tool for Interactive Analysis of Semantic Shifts Between Corpora. 2021 NAACL Systems Demonstration Track. Mexico City, Mexico. *Under submission*.
- D.2 John Hwong, Pierre Amelot, Kathryn McManus, **Adam Perer**. Exploring Hidden Dimensions of the Riiksmuseum. IEEE VIS Conference. Phoenix. Arizona. (2017).
- D.3 Josua Krause and **Adam Perer**. Data-Driven Cohort Construction with Interactive Visual Queries. Workshop on Visual Analytics in Health Care. IEEE Visual Analytics Science and Technology (VAST). Chicago, Illinois. (2015).

- D.4 **Adam Perer,** Ido Guy. SaNDVis: Visual Social Network Analytics for the Enterprise. ACM Conference of Computer Supported Cooperative Work (CSCW 2012). Seattle, Washington. (2012).
- D.5 **Adam Perer**, Ido Guy, Erel Uziel, Inbal Ronen, Michal Jacovi. Unearthing People from the SaND: Relationship Discovery with Social Media in the Enterprise. AAAI Conference on Weblogs and Social Media (ICWSM 2011). Barcelona, Spain. (2011).
- D.6 **Adam Perer**. Using SocialAction to uncover structure in social networks over time. IEEE Symposium on Visual Analytics Science and Technology (VAST 2008): 213-214. Columbus, Ohio, USA. (2008).
- D.7 **Adam Perer**, Ben Shneiderman. The Global Network of Terrorism: Dynamic Trends from 1969-1997. Competition on Visualizing Network Dynamics: International Workshop and Conference on Network Science. New York Hall of Science, New York, USA. (2007).
- D.8 **Adam Perer**, Ben Shneiderman. Beyond Threads: Identifying Discussions in Email Archives. IEEE Symposium on Information Visualization (InfoVis 2005). Minneapolis, Minnesota, USA. (2005).
- D.9 Eric Bier, **Adam Perer**. Icon Abacus and Ghost Icons. Proceedings of the 5th ACM/IEEE Joint Conference on Digital Libraries (JCDL). Denver, Colorado, USA. (2005).

OTHER PUBLICATIONS

- O.1 Adam Perer and Chris Wilson. The Steroids Social Network: An interactive feature on the Mitchell report. Slate Magazine. Dec. 21, 2007. http://www.slate.com/id/2180392/
- O.2 Eric Bier and **Adam Perer**. Icon Abacus and Ghost Icons. IEEE Technical Committee on Digital Libraries Bulletin, 2(1). (2005)

PATENTS

- PAT.1 Peter Bak, Swapnil Chhabra, Joern Jaskolowski, **Adam Perer**, Avi Yaeli. Relative Signature Traits of Cohorts. US Patent 10818051. Issued October 27, 2020.
- PAT.2 Avi Yaeli, Peter Bak, **Adam Perer**, Shay Segal. Systems and Methods for Constructing Clinical Pathways within a GUI. US Patent 10692254. Issued June 23, 2020.
- PAT.3 Josua Krause, Kenney Ng, **Adam Perer**. Identifying and Ranking Impactful Risk Factors from Trained Predictive Models. US Patent 20170323075. Issued November 9, 2017.
- PAT.4 David Gotz, **Adam Perer**, and Zhiyuan Zhang. Iterative Refinement of Cohorts using Visual Exploration and Data Analytics. US Patent 9104786. Issued October, 27, 2015.
- PAT.5 David Gotz, **Adam Perer**, and Fei Wang. Interactive Visual Analysis of Clinical Episodes. US 20150106022. Issued April 16, 2015.
- PAT.6 Jianying Hu, **Adam Perer**, and Fei Wang. Hierarchical Exploration of Longitudinal Medical Events. US Patent 20140257847. Issued September 11, 2014.
- PAT.7 Eric A. Bier and **Adam Perer**. Systems and Methods for displaying Linked Information in a Sorted Context. Patent 20041652-US-NP-311307. Issued July 14, 2009.

GRANTS

G.1	NSF ISS Award (\$1,000,000)	2021-Present
G.2	Center for Machine Learning and Health (\$113,000)	2020-Present
G.3	Amazon Machine Learning Research Award (\$40,000 + \$10,000 cloud)	2020
G.4	NIH Subaward (\$25,000)	2020
G.5	NIH Subaward (\$13,000)	2020
G.6	Google Cloud (\$5000 cloud)	2020
G.7	Block Center for Technology and Society (\$75,000)	2019-2020
G.8	Google Cloud (\$5000 cloud)	2018

AWARDS

Best Paper Honorable Mention. IEEE Visual Analytics Science and Technology	2018
IBM Research Science Accomplishment 'Visual Analytics for Clinical Event Sequences'	2017
IBM Research Science Accomplishment 'Research Contributions to Watson Health	
Life Sciences Offerings'	2017
IBM Research Science Accomplishment 'Patient Similarity Analytics'	2015
IBM Research Science Accomplishment 'Intelligent Care Delivery and Analytics'	2013
Best Paper Honorable Mention. IEEE Visual Analytics Science and Technology	2011
Mini-Challenge Award. IEEE Visual Analytics Science and Technology	2008

INVITED TALKS TO ACADEMIA & INDUSTRY

- I.1 December 12, 2019: Human-Centered Data Science: Visual Interfaces for Making Sense of Data and Machine Learning. Google. Pittsburgh, PA.
- I.2 August 7, 2019: Visual Interfaces for Making Sense of Machine Learning Algorithms. National Robotics Engineering Center. Pittsburgh, PA.
- I.3 April 17, 2019: Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data
 BioIT World 2019. Boston, MA.
- I.4 April 11, 2019: Visual Interfaces for Making Sense of Algorithms. Workshop on the Future of Human-Computer Interaction. Virginia Tech, Blacksburg, VA. *Keynote*.
- I.5 April 19, 2018: Human-Centered Data Science: Visual Interfaces for Making Sense of Data. University of Pittsburgh. Pittsburgh, PA.
- I.6 April 11, 2018: Human-Centered Data Science: Visual Interfaces for Making Sense of Data. Carnegie Mellon University. Pittsburgh, PA.
- I.7 January 25, 2018: Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data. Bentley University. Waltham, MA.
- I.8 November 17, 2017: Visual Analytics for Exploration, Prediction, and Clustering of Clinical Data. Big Data Symposium. University of Pittsburgh. Pittsburgh, PA.
- I.9 April 20, 2016: Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data. Big Data Symposium. University of Pittsburgh. Pittsburgh, PA
- I.10 December 4, 2015: Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data. University of Pittsburgh's Department of Biomedical Informatics Lecture Series. Pittsburgh. PA.
- I.11 September 18, 2015: Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data. Carnegie Mellon University's Human-Computer Interaction Institute Seminar Series. Pittsburgh, PA.
- I.12 April 17, 2015: Visual Analytics for Healthcare. EMBL-EBI Workshop on Electronic Medical Records for Drug Discovery. Hinxton, UK.
- I.13 April 7, 2015: The Role of Visualization in Prediction. OpenVis Conference. Boston, MA
- I.14 March 17, 2015: Visual Analytics for Healthcare. University of Texas Big Data Symposium. San Antonio, TX.
- I.15 April 25, 2014: Visual Analytics for Data-Driven Medicine. Mid-Atlantic Healthcare Informatics Symposium. Philadelphia, PA.
- I.16 October 2, 2013: CareFlow: Data-Driven Exploration of Care Plans for Patients. Health 2.0. Santa Clara. CA.
- I.17 October 1, 2013: Visual Analytics: Machine Learning + Visualization for Data-Driven Medicine. Health 2.0. Santa Clara, CA.
- I.18 August 17, 2013: Visual Analytics for Data-Driven Medicine. Meaningful Use of Complex Medical Data Symposium. Los Angeles, CA.

- I.19 April 2013: Visual Analytics for Healthcare. BioIT World Conference. Boston, MA.
- I.20 May 23, 2012: Visual Analytics for Tracking Disease Progression in Electronic Health Records. Electronic Health Record Informatics Workshop. University of Maryland. College Park, Maryland.
- I.21 June 24, 2011: Making Sense of Social Networks. Stanford University. Stanford, California.
- I.22 June 23, 2011: Data Visualization and Storytelling. IBM Almaden Research Center. San Jose, California.
- I.23 March 18, 2011: Making Sense of Social Networks. Massachusetts Institute of Technology. Cambridge, Massachusetts.
- I.24 June 7, 2010: Making Sense of (Social) Networks. IBM Research. Cambridge, Massachusetts.
- I.25 March 4, 2010: Making Sense of (Social) Networks. University of Pittsburgh. Pittsburgh, Pennsylvania.
- I.26 May 18, 2009: Improving Exploration of Networks by Integrating Statistics and Visualization.

 Dagstuhl Seminar on Visualization and Monitoring of Network Traffic. Dagstuhl, Germany.
- I.27 June 27, 2008: Integrating Statistics and Visualizations to Improve Exploratory Data Analysis of Social Networks. Statistical Graphics: Data and Information Visualization in Today's Multimedia Society (DataViz VI). Jacobs University, Bremen, Germany.
- I.28 February 14, 2008: Integrating Statistics and Visualization: Gaining Clarity during Exploratory Data Analysis of Social Networks. Dynamic Network Analysis Seminar Series. University of Maryland, College Park, Maryland.
- I.29 November 12, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. Ben-Gurion University of the Negev, Beer Sheva, Israel.
- I.30 November 8, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. IBM Research, Haifa, Israel.
- I.31 November 6, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. Technion, Haifa, Israel.
- I.32 November 5, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. Weizmann Institute of Science, Rehovot, Israel.
- I.33 November 1, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. Google, Haifa, Israel.
- I.34 October 10, 2007: Integrating Statistics and Visualization to Gain Clarity During Exploratory Social Network Analysis. Johns Hopkins University Applied Physics Lab, Columbia, Maryland.
- I.35 July 25, 2007: Social Network Analysis for Counter-Terrorism. Tools and Practices of Terrorism Analysis. Booz Allen Hamilton, McLean, Virginia
- I.36 June 1, 2007: Systematic Yet Flexible Visualizations of Social Networks. Helping Users Make Sense of Social Networks Workshop. University of Maryland, College Park, Maryland.
- I.37 May 31, 2007: Systematic Yet Flexible Visualizations of Social Networks. HCIL's 24th Annual Symposium. University of Maryland, College Park, Maryland.
- I.38 May 23, 2007: Social Network Analysis for Counter-Terrorism. 2007 Homeland Security Science
 & Technology Stakeholders Conference. Washington, DC.
- I.39 May 20, 2007: Balancing Systematic and Flexible Exploration of Social Networks. International Workshop and Conference on Network Science. New York Hall of Science, New York City, New York.
- I.40 April 18, 2007: Improving Interactive Exploration of Social Networks. The USMA/ARI Network Science Workshop, United States Military Academy, West Point, New York.
- I.41 March 2, 2007: Exploratory and Systematic Social Network Analysis Using Novel Visualizations and Interactions. APA Annual Symposium on Applied Experimental Research, George Mason University, Virginia.
- I.42 August 2006: Uses and Values of Email Visualizations: A Case Study with SNARFViews. Microsoft Research. Redmond, Washington.
- I.43 June 1, 2006: Balancing Systematic and Flexible Exploration of Social Networks. HCIL's 23rd Annual Symposium. University of Maryland, College Park, Maryland.

- I.44 June 2, 2005: Using Rhythms of Relationships to Understand Email Archives. Email Archive Visualization Workshop. University of Maryland, College Park, Maryland.
- I.45 June 3, 2005: Understanding the Rhythms of Relationship in Email Archives. HCIL's 22nd Annual Symposium. University of Maryland, College Park, Maryland.
- I.46 August 31, 2004: Approaches for Visualizing Email Archives. USC's Institute for Creative Technologies. Marina del Ray, California.
- I.47 August 2004: Supporting Reading Groups with Instant Bookplex. Palo Alto Research Center (PARC). Palo Alto, California.

INVITED PARTICIPANT

- IP.1 October 2018: Dagstuhl Seminar on Progressive Visual Analytics. Schloss Dagstuhl, Germany.
- IP.2 June 2018: Restructuring IEEE VIS for the Future. Banff International Research Station, Banff, Canada.
- IP.3 March 2012: National Science Foundation Workshop on the Science of Interaction. Austin, Texas.
- IP.4 June 2010: Dagstuhl Seminar on Information Visualization. Schloss Dagstuhl, Germany.
- IP.5 May 2009: Dagstuhl Seminar on Visualization and Monitoring of Network Traffic. Schloss Dagstuhl, Germany.
- IP.6 July 2008: Microsoft Research Faculty Summit. Redmond, Washington.
- IP.7 April 2006: Doctoral Consortium Selection, ACM SIGCHI, Montreal, Canada.

TEACHING EXPERIENCE

COURSES

Data Visualization, HCII, Carnegie Mellon University. Spring 2017, Spring 2018, Fall 2019 Designed and developed the first-ever offering of Data Visualization courses in HCII. In this course, students learned the fundamentals of perception, the theory of visualization, good design practices for visualization, and the development of interactive web-based visualizations. For their final projects, students collected and curated data about which they are passionate, and then designed and deployed interactive visualizations that communicate effective insights. Previously offered as *Visualization in HCI* and *Data Visualization I and II*.

Interactive Data Science, HCII, Carnegie Mellon University. Fall 2018, Fall 2020, Spring 2021 Revamped this MCDS-required course to focus on human-centered data science by increasing coverage of data visualization, and adding lectures on ethics, uncertainty, fairness, and interpretability. For their final projects, students could choose from 3 different tracks (model, application, or narrative) when building interactive tools with real-world data.

Data Science and Visualization, HCII, Carnegie Mellon University. Spring 2019 Designed a MSPM-required course to teach the fundamentals of data science and visualization compressed into a half-semester course.

Interpretable Machine Learning, HCII, Carnegie Mellon University. Spring 2019 Designed a seminar class to discuss recent research on interpretability techniques that are human-centered and aim to help people understand the machine learning models and their implications.

Telling Stories with Data, University of Pennsylvania. Fall 2017 Designed and taught the first-ever offering of this required capstone course in the School of Social Policy

and Practice. The non-technical course provided hands-on experience on the process of data communication, from initial data analysis, to identifying appropriate visualization techniques, to crafting informative visualizations.

TEACHING ASSISTANT

Introduction to Human-Computer Interaction, University of Maryland	2004
Organization of Programming Languages, University of Maryland	2003
Introduction to Artificial Intelligence, University of Maryland	2003
Computer Science I, University of Maryland	2002
Elementary Computer Programming, Case Western Reserve University	2000-2002

SUPERVISION

SUPERVISION AT CMU

Co-Advisor, William Epperson (with Dominik Moritz)	2020-Present
Advisor, Venkatesh Sivaraman	2020-Present
Co-Advisor, Ángel Alexander Cabrera (with Jason Hong)	2019-Present
Advisor, Sachin Grover	2019-Present
Co-Advisor, Sung-A Jang (with John Zimmerman)	2018-2019
Doctoral Committee Member, Nathan Hahn, In-Situ Sensemaking Support Systems	2018-2020
Doctoral Committee Member, Joseph Chee Chang, Supporting Global Context under	
Evolving User Intents during Data Exploration	2018-2020
Masters Advisor, Mayank Jain (Computer Science)	2021-Present
Masters Advisor, Zhendong Yuan (Computer Science)	2020-Present
Masters Thesis Committee Member, Zhuoni Yang of CMU (M.S. Sustainable Design),	
Modeling Computational Design	2019
Masters Thesis Committee Member, Aprameya Mysore of CMU (M.A. Emerging Media),	
Data Visualization for Structural Genomics	2017
SUPERVISION AT EXTERNAL INSTITUTIONS	

Host, Visiting PhD Student, Marius Hogräfer, Aarhus University (Computer Science)	2021
Host, Visiting PhD Student, Youli Chang, Seoul National University (Computer Science)	2020
Doctoral Committee Member, Vincent Raveneau of Univ de Nantes (Computer Science)	2019-2020
Doctoral Committee Member, Josua Krause of New York University (Computer Science)	2016-2018

INDEPENDENT STUDIES (MASTERS)

Jiachen Gong (METALS) – Explaining AI with Games	2020
Laura Fulton (MHCI) – Explaining AI with Games	2019-2020
Shivang Gupta (METALS) – Interpretable Machine Learning of Neural Networks	2019
Qian Wang (MHCI) - A Platform for Measuring Human Interpretability with Data Visualization	2019
Ja Young Lee (MHCI) - A Platform for Measuring Human Interpretability with Data Visualization	2019
Hao Wang (Emerging Media) – Data Visualization for Yelp Reviews	2017

INDEPENDENT STUDIES (UNDERGRADUATES)

Ruhan Prasad (Computer Science) – COVID-19 Data Visualization	2020
Kazi Jawad (Statistics and Machine Learning) – Explaining AI with Games	2020
Justine Cho (Computer Science) – Explaining AI with Games	2020
Yeju Ahn (Statistics and Machine Learning) - Conversational Data Analysis	2019

NSF RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU)

Adam Perer – Curriculum Vitae – 10

Olivia Zhang, Harvard (Applied Mathematics)	2019
INTERNS AT IBM RESEARCH	
Dylan Cashman of Tufts (now at Novartis)	2018
Helen Sakharova of MIT (now graduate student at Berkeley)	2018
Ben Eysenbach of MIT (now PhD student at CMU)	2017
Benjamin Glicksberg of Mount Sinai (now Assistant Professor at Mount Sinai)	2016
Josua Krause of NYU (now VP of Data Science at Accern)	2014-2015
Chad Stolper of Georgia Tech (now at Google)	2013
Zhiyuan Zhang of Stony Brook University (now at Facebook Research)	2012
Jessica Hullman of University of Michigan (now Associate Professor at Northwestern)	2011
Tal Herscovitz and Oded Schumacher of the Technion Israel Institute of Technology	2009

SERVICE

PANEL MEMBER

PM.1	National Science Foundation (NSF). Information & Intelligent Systems Division. 2018.
PM.2	National Science Foundation (NSF). Information & Intelligent Systems Division. 2016.
PM.3	National Science Foundation (NSF). Information & Intelligent Systems Division. 2014.
PM.4	National Science Foundation (NSF). Information & Intelligent Systems Division. 2013.
PM.5	National Science Foundation (NSF). Information & Intelligent Systems Division. 2012.

JOURNAL EDITOR

- JE.1 Guest Editor. IEEE Computer Graphics & Applications, Special Issue on Visualization in Data Science. 2019.
- JE.2 Guest Editor. IEEE Transactions on Big Data, Special Issue on Visualization in Data Science, 2018
- JE.3 Guest Editor. Big Data Journal, Special Issue on Visualization in Data Science. January 2016.
- JE.4 Guest Editor. Information Visualization Journal, Special Issue on Information Visualization Evaluation, 2013.
- JE.5 Guest Editor. Information Visualization Journal, Special Issue on Information Visualization Evaluation, July 2011.

ORGANIZING COMMITTEE MEMBER (CONFERENCES)

- CC.1 Posters Chair. IEEE VIS 2021, New Orleans, Louisiana.
- CC.2 General Chair. IEEE Symposium on Visualization in Data Science, October 2020, Salt Lake City, Utah.
- CC.3 Workshops Chair. IEEE VIS 2020, Salt Lake City, Utah.
- CC.4 General Chair. IEEE Symposium on Visualization in Data Science, October 21, 2019, Vancouver.
- CC.5 Workshops Chair. IEEE VIS 2019, October 20-25, Vancouver, Canada.
- CC.6 Papers Chair. IEEE Symposium on Visualization in Data Science, October 21, 2018, Berlin, Germany.
- CC.7 Meetups Chair. IEEE VIS 2018, October 21-26, Berlin, Germany.
- CC.8 Papers Chair. IEEE Symposium on Visualization in Data Science, October 1, 2017. Phoenix, Arizona.
- CC.9 Publicity Chair. IEEE VIS 2017, October 1-6, Phoenix, Arizona.
- CC.10 Steering Committee. FDA ADEPT (Advancing the Development of Pediatric Therapeutics) Steering Committee. September 18-19, 2017, Silver Spring, Maryland.
- CC.11 Publicity Chair. IEEE VIS 2014, November 9-14, Paris, France.
- CC.12 Exhibits Chair. IEEE VIS 2013, October 13-18, Atlanta, Georgia.

- CC.13 Exhibits Chair. IEEE VisWeek 2012, October 14-19, Seattle, Washington.
- CC.14 Web Chair. C&C2007, Creativity and Cognition Conference, June 13-15, 2007, Washington, DC.

ORGANIZING COMMITTEE MEMBER (WORKSHOPS)

- WC.1 Organizer. Visualization for AI Explainability. VIS 2020. October, 2020. Salt Lake City, Utah. www.visxai.io
- WC.2 Organizer. Visualization for AI Explainability. VIS 2019. October, 2019. Vancouver, Canada. www.visxai.io
- WC.3 Organizer. Visualization for AI Explainability. VIS 2018. October, 2018. Berlin, Germany. www.visxai.io
- WC.4 Steering Committee. BELIV'18: Evaluation and Beyond Methodological Approaches for Visualization. Berlin, Germany. www.beliv.org
- WC.5 Organizer. Visual Analytics in Healthcare. VIS 2017. October, 2017. Phoenix, Arizona, USA. www.visualanalyticshealthcare.org
- WC.6 Organizer. Visual Analytics in Healthcare. AMIA 2016. November, 2016. Chicago, IL, USA. www.visualanalyticshealthcare.org
- WC.7 Organizer. Big Data, Big Picture Data Visualization of Health. ICPE 2016. August 26, 2016. Dublin, Ireland.
- WC.8 Organizer. The Event Event: Workshop on Temporal & Sequential Event Analysis. IEEE VIS 2016. October 2016. Baltimore, MD, USA. *eventevent.github.io*
- WC.9 Organizer. Data Mining for Medical Informatics. AMIA 2015. November 14, 2015. San Francisco, CA, USA. www.dmmh.org/dmmi15
- WC.10 Organizer. Visual Analytics in Healthcare. IEEE Vis 2015. October 25, 2015. Chicago, IL, USA. www.visualanalyticshealthcare.org
- WC.11 Organizer. Visualization for Predictive Analytics. IEEE VIS 2014. November 9, 2014. Paris, France. predictive-workshop.github.io
- WC.12 Organizer. Visual Analytics in Healthcare. AMIA 2014. November 15, 2014. Washington, DC, USA. www.visualanalyticshealthcare.org
- WC.13 Organizer. BELIV'12: Novel Evaluation Methods for Visualization. IEEE VisWeek 2012. October 14-15, 2012. Seattle, Washington, USA. www.beliv.org
- WC.14 Organizer. Telling Stories with Data. VisWeek 2011. October 2011. Providence, Rhode Island,
- WC.15 Organizer. BELIV'10: BEyond time and errors: novel evaLuation methods for Information Visualization. CHI 2010. April 10-11, 2010. Atlanta, Georgia, USA. www.beliv.org
- WC.16 Organizer. BELIV'08: BEyond time and errors: novel evaLuation methods for Information Visualization. CHI 2008. April 5, 2008. Florence, Italy. www.beliv.org
- WC.17 Organizer. Helping Users Make Sense of Social Networks. University of Maryland. June 2007, College Park, Maryland. www.cs.umd.edu/hcil/sna-workshop/
- WC.18 Organizer. Email Archive Visualization Workshop. University of Maryland, June 2005, College Park, Maryland. www.cs.umd.edu/hcil/emailviz/workshop/
- WC.19 Webmaster. Workshop on Creativity Support Tools, National Science Foundation. June 13-14, 2005, Washington, DC. www.cs.umd.edu/hcil/CST/

PROGRAM COMMITTEE MEMBER

- PC.1 VIS 2021: IEEE Visualization & Visual Analytics, October 2021, New Orleans, Louisiana.
- PC.2 Associate Chair. CHI 2021: ACM CHI Conference on Human Factors in Computing Systems, May 2021, Toyko, Japan.
- PC.3 InfoVis 2019: IEEE Information Visualization Conference, October 2019, Vancouver, Canada.
- PC.4 Senior Program Committee. ACM Intelligent User Interfaces Conference, March 2019, Los Angeles, California.
- PC.5 VAST 2018: IEEE Visual Analytics Science and Technology, October 2018, Berlin, Germany.
- PC.6 EuroVis 2018: EuroGraphics/IEEE Symposium on Visualization, June 2018, Brno, Czech Republic.

- PC.7 Associate Chair. CHI 2017: ACM CHI Conference on Human Factors in Computing Systems, May 2017, Denver, Colorado.
- PC.8 VAST 2016: IEEE Visual Analytics Science and Technology, October 2016, Baltimore, Maryland.
- PC.9 EuroVis 2016: EuroGraphics/IEEE Symposium on Visualization, June 2016, Groningen, Netherlands.
- PC.10 InfoVis 2015: IEEE Information Visualization Conference, October 2015, Chicago, Illinois.
- PC.11 InfoVis 2014: IEEE Information Visualization Conference, November 2014, Paris, France.
- PC.12 InfoVis 2013: IEEE Information Visualization Conference, October 2013, Atlanta, Georgia.
- PC.13 EuroVis 2013: EuroGraphics/IEEE Symposium on Visualization, June 2013, Leipzig, Germany.
- PC.14 EuroVis 2012: EuroGraphics/IEEE Symposium on Visualization, June 2012, Vienna, Austria.
- PC.15 InfoVis 2011: IEEE Information Visualization Conference, October 2011, Providence, Rhode Island.
- PC.16 EuroVis 2011: EuroGraphics/IEEE Symposium on Visualization, May 2011, Bergen, Norway.
- PC.17 InfoVis 2010: IEEE Information Visualization Conference, October 2010, Salt Lake City, Utah.
- PC.18 InfoVis 2009: IEEE Information Visualization Conference, October 2009, Atlantic City, New Jersey.
- PC.19 ISWC 2009: International Semantic Web Conference, October 2009, Washington, DC.
- PC.20 WWW 2009: International World Wide Web Conference, August 20-24 2009, Madrid, Spain.

WORKSHOP PROGRAM COMMITTEE MEMBER

- WPC.1 IDEA: Interactive Data Exploration and Analytics (IDEA). ACM KDD 2018. August. London, UK. poloclub.gatech.edu/idea2018/
- WPC.2 WHI: Workshop on Human Interpretability in Machine Learning. ICML 2018. July. Stockholm, Sweden. sites.google.com/view/whi2018
- WPC.3 IDEA: Interactive Data Exploration and Analytics (IDEA). ACM KDD 2017. August. Halifax, Canada. poloclub.gatech.edu/idea2017/
- WPC.4 Leveraging Patient-Generated Data for Collaborative Decision Making in Healthcare. PervasiveHealth 2017. May 2017. Barcelona, Spain. leveragingpgd.ist.psu.edu
- WPC.5 IDEA: Interactive Data Exploration and Analytics (IDEA). ACM KDD 2015. August. Sydney, Australia. poloclub.gatech.edu/idea2015/
- WPC.6 IDEA: Interactive Data Exploration and Analytics (IDEA). ACM KDD 2014. August. New York City, New York, USA. poloclub.gatech.edu/idea2014/
- WPC.7 BGM: International Workshop on Big Graph Mining. WWW 2014. April 7, 2014. Seoul, South Korea. poloclub.gatech.edu/bgm2014/
- WPC.8 Visual Analytics in Healthcare. AMIA 2013. November 16, 2013. Washington, DC, USA. www.vis-ualanalyticshealthcare.org
- WPC.9 IDEA: Interactive Data Exploration and Analytics (IDEA). ACM KDD 2013. August 11. Chicago, Illinois, USA. poloclub.gatech.edu/idea2013/
- WPC.10 Visual Analytics in Healthcare: Open Health Data. IEEE VisWeek 2012. October 17, 2012. Seattle, Washington, USA. www.visualanalyticshealthcare.org
- WPC.11 SocMedVis: Workshop on Social Media Visualization. ICWSM 2011. Dublin, Ireland.
- WPC.12 NextMail'11: International Workshop on Next Trends in Email, Lyon, France.
- WPC.13 VISSW 2011: International Workshop on Visual interfaces to the Social and Semantic Web, Palo Alto, California.
- WPC.14 VISSW 2010: International Workshop on Visual interfaces to the Social and Semantic Web, Hong Kong, China.

JOURNAL REVIEWER

ACM Transactions on Computer-Human Interaction (TOCHI), Computer Graphics Forum (CGF), IEEE Transactions on Visualization and Computer Graphics (TVCG), Information Visualization Journal (IVS), ACM Transactions on Intelligent Systems and Technology (TIST), International Journal of Human-Computer Studies (IJHCS), IEEE Computer Graphics and Applications (CG&A), New Review of Hypermedia and Multimedia (NRHM), International Journal of Human-Computer Interaction (IJHCI), Journal of Computer-

Mediated Communication (JCMC)

CONFERENCE REVIEWER

ACM Conference on Human Factors in Computing Systems (CHI), IEEE Conference on Information Visualization (InfoVis), IEEE Conference on Visual Analytics (VAST), International Conference on Intelligent User Interfaces (IUI), ACM Designing Interactive Systems (DIS), Eurographics Symposium on Visualization (EuroVis), IEEE Pacific Visualization Symposium (PacificVis), ACM Advanced Visual Interfaces Conference (AVI), International Conference on Information Visualization Theory and Applications (IVAPP), ACM Conference on Computer Supported Cooperative Work (CSCW), International Semantic Web Conference (ISWC), International World Wide Web Conference (WWW), ACM Creativity and Cognition Conference (C&C).

CMU SERVICE

Admissions Committee, HCI Institute's PhD Program

2019

CONSULTING

Janssen Pharmaceutical Companies of Johnson & Johnson	2020-Present
Blue Spark Technologies (Advisory Board)	2020-Present

MEMBERSHIPS

Founding Member and Secretary of AMIA's Visual Analytics Working Group	2015-2018
Co-chair of IBM Research's Graphics & Visualization Community	2010-2013
Led Visualization Member of IBM's Research Ph.D. Fellowship Selection Committee	2010-2013
Computer Science Department Executive Council, University of Maryland	2004-2008