# JOHN T. STASKO Regents Professor School of Interactive Computing Georgia Institute of Technology Atlanta, GA 30332-0760 stasko@cc.gatech.edu https://faculty.cc.gatech.edu/~stasko

## **EDUCATIONAL BACKGROUND**

EDUCATIONAL DACKGR		
Ph.D. 1989	Brown University	Computer Science
Sc.M. 1985	Brown University	Computer Science
B.S. 1983	Bucknell University	Mathematics
<b>EMPLOYMENT HISTORY</b>		
Regents Professor	School of Interactive Computing Georgia Institute of Technology	2018-present
Professor	School of Interactive Computing Georgia Institute of Technology	2007-present
Professor	College of Computing Georgia Institute of Technology	2004-present
Associate Professor	College of Computing Georgia Institute of Technology	1995-2004
Assistant Professor	College of Computing Georgia Institute of Technology	1989-1995
Appointments held:		
Adjunct Professor	School of Computing Instruction Georgia Institute of Technology	2022-present
Interim Chair	School of Interactive Computing Georgia Institute of Technology	2021-2022
Honorary Professor	School of Computer Science Univ. of St. Andrews, Scotland	2013
Associate Chair	School of Interactive Computing Georgia Institute of Technology	2007-2014
Visiting Scientist	Pacific NW National Laboratory Richland, WA	Spring 2008

Visiting Researcher	Microsoft Research Redmond, WA	Fall 2007
Director of Graduate Studies	College of Computing Georgia Institute of Technology	1995-1999
Associate Director for Research	Computing, GVU Center Georgia Institute of Technology	1994-1996

# **CURRENT FIELDS OF INTEREST**

Information Visualization, Visual Analytics, Human-computer Interaction

Dr. Stasko directs the Information Interfaces Research Group whose focus is to help people and organizations use data to solve problems. One main theme of the group's research is the study of information visualization and visual analytics systems for exploring, analyzing, and understanding large data sets and document collections. Their work includes the design, creation, application, analysis, and evaluation of such techniques and systems.

# I. TEACHING AND ADVISING

# A. Courses Taught

Courses raugh	l C	Nu	mber	
<u>Quarter /Year</u> Fall 1989	<u>Course</u> ICS 3410			Comments
Winter 1990	ICS 8113J	Program Visualization	13	new course
Spring 1990	ICS 4390	Computer Graphics	45	
Fall 1990	ICS 3410	Survey of Programming Languages	53	
Winter 1991 Winter 1991	ICS 4390 ICS 8113J	Computer Graphics User Interface System Design	15 20	new course
Summer 1991	ICS 4156	Introduction to Theory of Computing II	35	
Fall 1991	CS 3410	Survey of Programming Languages	50	
Winter 1992	CS 4390	Computer Graphics	30	
Spring 1992	CS 8113F	Visualization in Programming	12	
Fall 1992 Fall 1992	CS 6751 CS 4156	Human-Computer Interaction Introduction to Theory of Computing II	45 40	
Fall 1993	CS 6751	Human-Computer Interaction	60	
Winter 1994 Winter 1994	CS 3410 CS 7390	Survey of Programming Languages Software Visualization	45 17	new course
Fall 1994	CS 3411	Programming Language Concepts	33	new course
Winter 1995 Winter 1995	CS 3158 CS 6395	Design and Analysis of Algorithms Principles of User Interface Software	36 18	
Fall 1995	CS 6751	Human-Computer Interaction	45	
Winter 1996 Winter 1996	CS 3158 CS 7390	Design and Analysis of Algorithms Software Visualization	42 13	
Fall 1996	CS 4753	Human Factors in Software Development	38	

Winter 1997	CS 6751	Human-Computer Interaction	22	
Fall 1997	CS 3158	Design and Analysis of Algorithms	40	
Winter 1998	CS 7390	Software Visualization	11	
Fall 1998	CS 3158	Design and Analysis of Algorithms	33	
Winter 1999	CS 6751	Human-Computer Interaction	35	
Fall 1999	CS 7450	Information Visualization	35	new course
Spring 2000	CS 4750	User Interface Design	37	
Fall 2000	CS 1312	Introduction to Object-Oriented	130	
Fall 2000	CS 7450	Programming Information Visualization	22	
Fall 2001 Fall 2001	CS 6750	Human-Computer Interaction	43	
	CS 8804	The Essence of Computing	1	new course
Spring 2002	CS 1322	Introduction to Object-Oriented Programming	250	
Spring 2002	CS 7450	Information Visualization	38	
Fall 2002	CS 6750	Human-Computer Interaction	32	
Spring 2003	CS 7450	Information Visualization	28	
Fall 2003	CS 4750	User Interface Design	40	
Spring 2004	CS 1322	Introduction to Object-Oriented	250	
Spring 2004	CS 7450	Programming Information Visualization	39	
Spring 2005	CS 1322	Introduction to Object-Oriented	260	
Spring 2005	CS 7450	Programming Information Visualization	28	
Fall 2005	CS 1321	Introduction to Computing	70	
Spring 2006	CS 7450	Information Visualization	32	
Fall 2006	CS 1331	Introduction to Object-Oriented Programming	115	

Spring 2007	CS 6750 CS 8903	Human-Computer Interaction Research in InfoVis	35 8
Fall 2008	CS 1331	Introduction to Object-Oriented Programming	160
Spring 2009	CS 4460 CS 7450	Intro to Information Visualization Information Visualization	17 40
Fall 2009	CS 1331	Introduction to Object-Oriented Programming	175
Spring 2010	CS 4460 CS 7450	Intro to Information Visualization Information Visualization	21 34
Fall 2010	CS 1331	Introduction to Object-Oriented Programming	215
Spring 2011		Sports Analytics	25
Spring 2011	joint with R CS 7450	Information Visualization	45
Fall 2011	CS 1331	Introduction to Object-Oriented	130
Fall 2011	CS 7450	Programming Information Visualization	35
Spring 2012	CS/IE 4801 joint with R	Sports Analytics ahul Basole	75
Fall 2012	CS 1331	Introduction to Object-Oriented	164
Fall 2012	CS 7450	Programming Information Visualization	48
Fall 2013	CS 7450	Information Visualization	49
Spring 2014	CS 1331	Introduction to Object-Oriented Programming	179
Fall 2014	CS 4460	Intro. to Information Visualization	28
Spring 2015	CS 1331	Introduction to Object-Oriented Programming	190
Fall 2015	CS 7450	Information Visualization	65

Spring 2016	CS 1331	Introduction to Object-Oriented	203
Spring 2016	CS 8001 VI	Programming DE Visualization Design Seminar	17
Fall 2016 Fall 2016	CS 6452 CS 7450	Prototyping Interactive Systems Information Visualization	16 61
Spring 2017	CS 1331	Introduction to Object-Oriented Programming	233
Fall 2017	CS 4460	Intro. to Information Visualization	104
Spring 2018	CS 1331	Introduction to Object-Oriented Programming	178
Fall 2018	CS 7450	Information Visualization	79
Spring 2019	CS 1331	Introduction to Object-Oriented Programming	191
Fall 2019	CS 7450	Information Visualization	64
Spring 2020	CS 1331	Introduction to Object-Oriented Programming	300
Spring 2021	CS 1331	Introduction to Object-Oriented Programming	250
Spring 2021	CS 6730	Data Visualization: Principles and Applications	68
Fall 2021	CS 6730	Data Visualization: Principles and Applications	70
Fall 2022	CS 1331	Introduction to Object-Oriented Programming	260
Spring 2023	CS 7450	Information Visualization	44
Fall 2023	CS 6730	Data Visualization: Principles and Applications	96
Spring 2024	CS 1331	Introduction to Object-Oriented Programming	135
Fall 2024	CS 6730	Data Visualization: Principles and Applications	95

### **B. Individual Student Guidance**

1. Postdoctoral Fellows Supervised Amnon Shabo (joint with Mark Guzdial) Sept. 1995 - Aug. 1997

Carsten Görg (joint with Mary Jean Harrold in '05-'06) July 2005 – Aug. 2010

2. Ph. D. Students Supervised

Mariano Garcia (co-advisor with Albert Badre)
Graduation: Summer 1993
"Effects of Level of Abstractness of Icons Used to Represent Programming Language Concepts"
Associate Professor, Cayey University, Puerto Rico

## Eileen Kraemer

Graduation: Summer 1995

"A Framework, Methods, and Tools for the Visualization of Concurrent Computations"

Professor & Former Director, School of Computing, Clemson University NSF Career Award winner

W. Keith Edwards

Graduation: Fall 1995

"Meta-Information Sharing in Collaborative Support Environments" Professor & GVU Center Director, Georgia Institute of Technology

#### Dean Jerding

Graduation: Fall 1997 "Visualizing Patterns of Interaction in Program Executions" Vice President, Cognizant Softvision

Brad Topol (co-advisor with Mustaque Ahamad)Graduation: Spring 1998"A Framework for the Development of Wide Area Applications"Distinguished Engineer, IBM

# D. Scott McCrickard

Graduation: Summer 2000

"Maintaining Information Awareness in a Dynamic Environment: Animation as a Communication Mechanism"

Associate Professor, Virginia Tech

Q. Alex Zhao

Graduation: Fall 2001

"Opportunistic Interfaces for Promoting Community Awareness"

Senior Software Engineer, Google

Dugald Hutchings

Graduation: Summer 2006 "Making Multiple Monitors More Manageable" Professor & Dept. Chair, Elon University

### Jun Xiao

Graduation: Fall 2006 "Empirical Studies on Embodied Conversational Agents" CEO and Founder, Immune Arch

### Ji Soo Yi

Graduation: Summer 2008 (Industrial & Systems Engineering) "Visualized Decision Making: Development and Application of Information Visualization Techniques to Improve Decision Quality of Nursing Home Choice" Vice President, Samsung

### James Eagan

Graduation: Fall 2008

"The Buzz: Supporting Extensively Customizable Information Awareness Applications"

Associate Professor, Telecom-ParisTech (France)

**Christopher Plaue** 

Graduation: Summer 2009

"Exploring and Visualizing the Impact of Multiple Shared Displays on Collocated Meeting Practices"

Senior Lecturer and Undergraduate Coordinator, Clemson Univ.

Zhicheng Liu

Graduation: Spring 2012 "Network-based Visual Analysis of Tabular Data" Assistant Professor, Univ. of Maryland

# Youn-ah Kang

Graduation: Summer 2012

"Informing Design of Visual Analytics Systems for Intelligence Analysis: Understanding Users, User Tasks, and Tool Usage" Associate Professor, Yonsei University (Korea)

Charles D. Stolper (co-advisor with Polo Chau)
Graduation: Summer 2016
"Graph-Level Operations: A High-Level Interface for Graph Visualization Technique Specification"
Software Engineer, Google Yi Han (co-advisor with Gregory Abowd) Graduation: Fall 2016

"Understanding Visual Analysis Process from User Interactions Using Visual Analytics"

Assistant Professor, National Sun Yat-sen University (Taiwan)

## Ramik Sadana

Graduation: Spring 2017 "Data Visualization on Tablet Devices" Senior Engineer, Uber

### Mengdie Hu

Graduation: Spring 2018 "Sketching mental maps of urban spaces for the visual analysis of spatial data" Research Scientist, Facebook

# J. Alex Godwin

Graduation: Summer 2018 "Visualization of textual content from social media and online communities" Assistant Professor, American University

### Arjun Srinivasan

Graduation: Summer 2020

"Combining Natural Language and Direct Manipulation for Human-Data Interaction through Visualizations" Research Scientist, Tableau Research

#### John Thompson

Graduation: Fall 2020 "Augmenting Graphic Design Practices for Expressive Visualization Authoring" Post-doc, Microsoft Research

Po-Ming "Terrance" Law (co-advisor with Alex Endert) Graduation: Spring 2021 "Exploring User Perception of Causality in Automated Data Insights" Research Scientist, Epsilon

# Hayeong Song Graduation: Summer 2024 "Exploring How Visualization Design Affects Perceived Message Credibility" Research Scientist, Western Digital

3. Current Ph. D. students Yu Fu, 5<sup>th</sup> year Alex Bendeck, 4<sup>th</sup> year  4. M.S. Thesis Students supervised. Joseph Wehrli August 1993
 "Mapping Massively Parallel Computations to Animations to Support Debugging"

Xiaoxue Zhang (Digital Media) May 2017 "Health Inequity in Atlanta"

# C. Teaching Awards

William A. gus Baird Teaching Award, College of Computing, Georgia Tech, 2005 William A. gus Baird Teaching Award, College of Computing, Georgia Tech, 2020

### **II. RESEARCH AND CREATIVE SCHOLARSHIP**

### A. Thesis

"TANGO: A Framework and System for Algorithm Animation" May 1989 Advisor: Steven P. Reiss Brown University

### **B.** Published Journal Papers (Current Google Scholar h-index: 80)

Stasko, J. and Vitter, J., "Pairing Heaps: Experiments and Analysis," *Communications of the ACM*, vol. 30, no. 3, pg. 234-249, March 1987, pp. 234-249.

Stasko, J., "The Path-Transition Paradigm: A Practical Methodology for Adding Animation to Program Interfaces," *Journal of Visual Languages and Computing*, vol. 1, no. 3, pp. 213-236, September 1990.

Stasko, J., "TANGO: A Framework and System for Algorithm Animation," *IEEE Computer*, vol. 23, no. 9, pp. 27-39, September 1990.

Kraemer, E. and Stasko, J., "The Visualization of Parallel Systems: An Overview," *Journal of Parallel and Distributed Computing*, vol. 18, no. 2, pp. 105-117, June 1993.

Stasko, J. and Kraemer, E., "A Methodology for Building Application-Specific Visualizations of Parallel Programs," *Journal of Parallel and Distributed Computing*, vol. 18, no. 2, pp. 258-264, June 1993.

Stasko, J., "Animation in User Interfaces: Principles and Techniques," *Trends in Software*, Special issue on User Interface Software, no. 1, pp. 81-101, 1993.

Garcia, M., Badre, A. and Stasko, J., "Development and Validation of Icons Varying in their Level of Abstractness," *Interacting with Computers*, vol. 6, no. 2, pp. 191-211, June 1994.

Shilling, J. and Stasko, J., "Using Animation to Design Object-Oriented Systems," *Object-Oriented Systems*, vol. 1, no. 1, pp. 5-19, September 1994

Mukherjea, S. and Stasko, J., "Toward Visual Debugging: Integrating Algorithm Animation Capabilities within a Source Level Debugger," *ACM Transactions on Computer-Human Interaction*, vol. 1, no. 3, pp. 215-244, September 1994.

Recker, M., Ram, A., Shikano, T., Li, G., Stasko, J., "Cognitive Media Types for Multimedia Information Access", *Journal of Educational Multimedia and Hypermedia*, vol. 4, no. 2/3, pp. 185-210, 1995.

Stasko, J. and McCrickard, D., "Real Clock Time Animation Support for Developing Software Visualizations", *Australian Computer Journal*, vol. 27, no. 3, pp. 118-128, November 1995.

Stasko, J., "Future research directions in human-computer interaction," *ACM Computing Surveys*, vol. 28, no. 4es, article 145, December 1996.

Shabo, A., Guzdial, M. and Stasko, J., "An Apprenticeship-based Multimedia Courseware for Computer Graphics Studies Provided on the World Wide Web," *Journal* of Computers and Education, vol. 29, no. 2/3, pp. 103-116, December 1997.

Kraemer, E. and Stasko, J., "Accurate and Informative Portrayal of Concurrent Executions," *Concurrency*, vol. 6, no. 1, pp. 36-46, Jan.-Mar. 1998.

Topol, B., Stasko, J. and Sunderam, V., "Dual Timestamping Methodology for Visualizing Distributed Application Behaviour", *International Journal of Parallel and Distributed Systems and Networks*, vol. 1, no. 2, pp. 43-50, 1998.

Jerding, D. and Stasko, J., "The Information Mural: A Technique for Displaying and Navigating Large Information Spaces," *IEEE Transactions on Visualization and Computer Graphics*, vol. 4, no. 3, pp. 257-271, Jul-Sep. 1998.

Topol, B., Stasko, J. and Sunderam, V., "PVaniM: A Tool for Visualization in Network Computing Environments, *Concurrency: Practice & Experience*, vol. 10, no. 14, pp. 1197-1222, 1998.

Ram, A., Catrambone, R., Guzdial, M., Kehoe, C., McCrickard, D. and Stasko, J., "PML: Representing procedural domains for multimedia presentations," *IEEE Multimedia*, vol. 6, no. 2, pp. 40-52, April-June 1999.

Carothers, C., Topol, B., Fujimoto, R., Stasko, J. and Sunderam, V., "Visualizing Parallel Simulations that Execute in Network Computing Environments," *Future Generation Computer Systems*, vol. 15, no. 4, pp. 513-529, July 1999.

Byrne, M., Catrambone, R. and Stasko, J., "Evaluating Animations as Student Aids in Learning Computer Algorithms", *Computers & Education*, vol. 33, no. 4, pp. 253-278, 1999.

Stasko, J., Catrambone, R., Guzdial, M. and McDonald, K., "An Evaluation of Space-Filling Information Visualizations for Depicting Hierarchical Structures," *International Journal of Human-Computer Studies*, vol. 53, no. 5, pp. 663-694, November 2000.

Kehoe, C., Stasko, J. and Taylor, A., "Rethinking the Evaluation of Algorithm Animations as Learning Aids: An Observational Study," *International Journal of Human-Computer Studies*, vol. 54, no. 2, pp. 265-284, February 2001. Hundausen, C., Douglas, S. and Stasko, J., "A Meta-Study of Algorithm Visualization Effectiveness", *Journal of Visual Languages and Computing*, vol. 13, no. 3, pp. 259-290, June 2002.

McCrickard, D.S., Catrambone, R., Chewar, C.M. and Stasko, J., "Establishing Tradeoffs that Leverage Attention for Utility: Empirically Evaluating Information Display in Notification Systems," *International Journal of Human-Computer Studies*, vol. 58, no. 5, pp. 547-582, May 2003.

Pousman, Z., Iachello, G., Fithian, R., Moghazy, J., and Stasko, J., "Design Iterations for a Location-Aware Event Planner," *Personal and Ubiquitous Computing*, vol. 8, no. 2, pp. 117-125, May 2004.

Amar, R. and Stasko, J., "Knowledge Precepts for Design and Evaluation of Information Visualizations," *IEEE Transactions on Visualization and Computer Graphics*, vol. 11, no. 4, pp. 432-442, July/August 2005.

Hutchings, D. Stasko, J., and Czerwinski, M., "Distributed display environments," *Interactions*, vol. 12, no. 6, pp. 50-53, Nov-Dec. 2005.

Yi, J.S., Melton, R., Stasko, J. and Jacko, J., "Dust n Magnet: A new Metaphor for Information Visualization," *Information Visualization*, vol. 4, no. 4, pp. 239-256, Winter 2005.

Conti, G., Abdullah, K., Grizzard, J., Stasko, J., Copeland, J., Ahamad, M., Owen, H., Lee, C., "Countering Security Information Overload through Alert and Packet Visualization," *IEEE Computer Graphics & Applications*, vol. 26, no. 2, pp. 60-70, March/April 2006.

Pousman, Z., Stasko, J.T. and Mateas, M., "Casual Information Visualization: Depictions of Data in Everyday Life," *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '07), vol. 13, no. 6, pp. 1145-1152, November/December 2007, pp. 1145-1152. (27 of 116 = 23% papers accepted)

Yi, J.S., Kang, Y.A., Stasko, J.T. and Jacko, J.A., "Toward a Deeper Understanding of the Role of Interaction in Information Visualization," *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '07), vol. 13, no. 6, pp. 1224-1231, November/December 2007. (27 of 116 = 23% papers accepted)

Kerren, A., Stasko, J.T., Fekete, J.-D., and North, C., "Workshop report: information visualization—human-centered issues in visual representation, interaction, and evaluation," *Information Visualization*, vol. 6, no. 3, pp. 189-196, Winter 2007.

Plaisant, C. et al, "Evaluating Visual Analytics at the 2007 VAST Symposium Contest," *IEEE Computer Graphics and Applications*, vol. 28, no. 2, pp. 12-21, March/April 2008.

Elmqvist, N., Stasko, J., and Tsigas, P., "DataMeadow: A Visual Canvas for Analysis of Large-Scale Multivariate Data," *Information Visualization*, vol. 7, no. 1, pp. 18-33, Spring 2008.

Stasko, J., Görg, C., and Liu, Z., "Jigsaw: Supporting Investigative Analysis through Interactive Visualization", *Information Visualization*, Vol. 7, No. 2, pp. 118-132, Summer 2008.

Robertson, G., Fernandez, R., Fisher, D., Lee, B., and Stasko, J., "Effectiveness of Animation in Trend Visualization", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '08), Vol. 14, No. 6, pp. 1325-1332, November/December 2008. (28 of 107 = 26% papers accepted)

Romero, M., Summet, J., Stasko, J., and Abowd, G., "Viz-A-Vis: Toward Visualizing Video through Computer Vision", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '08), Vol. 14, No. 6, pp. 1261-1268, November/December 2008. (28 of 107 = 26% papers accepted)

Liu, Z., Nersessian, N., and Stasko, J., "Distributed Cognition as a Theoretical Framework for Information Visualization", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '08), Vol. 14, No. 6, pp. 1173-1180, November/December 2008.

(28 of 107 = 26% papers accepted)

Liu, Z., Stasko, J. and Sullivan, T., "SellTrend: Inter-Attribute Visual Analysis of Temporal Transaction Data", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '09), Vol. 15, No. 6, pp. 1025-1032, November/December 2009. (Honorable Mention, Best Paper Award) (37 of 141 = 26% papers accepted)

Pike, W., Stasko, J., Chang, R. and O'Connell, T., "The Science of Interaction," *Information Visualization*, Vol. 8, No. 4, pp. 263-274, Winter 2009.

Liu, Z. and Stasko, J., "Mental Models, Visual Reasoning and Interaction in Information Visualization: A Top-down Perspective", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '10), Vol. 16, No. 6, November/December 2010, pp. 999-1008. (35 of 135 = 26% papers accepted) Kang, Y., Görg, C., and Stasko, J., "How Can Visual Analytics Assist Investigative Analysis? Design Implications from an Evaluation," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 17, No. 5, May 2011, pp. 570-583.

Wong, P.C., Chen, C., Görg, C., Shneiderman, B., Stasko, J., and Thomas, J., "Graph Analytics - Lessons Learned and Challenges Ahead," *IEEE Computer Graphics and Applications*, Vol. 31, No. 5, Sept./Oct. 2011, pp. 18-29.

Liiv, I., Opik, R., Ubi, J., and Stasko, J. "Visual matrix explorer for collaborative seriation," *Wiley Interdisciplinary Reviews: Computational Statistics*, Vol. 4, No. 1, Jan./Feb. 2012, pp. 85-97.

Basole, R., Hu, M., Patel, P. and Stasko, J.T., "Visual Analytics for Converging-Business-Ecosystem Intelligence", *IEEE Computer Graphics and Applications*, Vol. 32, No. 1, Jan./Feb. 2012, pp. 92-96.

Lee, H., Kihm, J., Choo, J., Stasko, J.T., Park, H., "iVisClustering: An Interactive Visual Document Clustering via Topic Modeling", *Computer Graphics Forum*, (Paper presented at EuroVis '12) Vol. 31, No. 3, June 2012, pp. 1155-1164. (55 of 202 = 27% papers accepted)

Kang Y. and Stasko, J., "Examining the Use of a Visual Analytics System for Sensemaking Tasks: Case Studies with Domain Experts", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at VAST '12), Vol. 18, No. 12, December 2012, pp. 2869-2878. (29 of 104 = 28% papers accepted)

Pileggi, H., Stolper, C.D., Boyle, J.M., and Stasko, J.T., "SnapShot: Visualization to Propel Ice Hockey Analytics", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '12), Vol. 18, No. 12, December 2012, pp. 2819-2828.

(44 of 178 = 25% papers accepted)

Görg, C., Kang, Y., Liu, Z., and Stasko, J., "Visual Analytics Support for Intelligence Analysis", *IEEE Computer*, Vol. 46, No. 7, July 2013, pp. 30-38.

Görg, C., Liu, Z., Kihm, J., Choo, J., Park, H., Stasko, J., "Combining Computational Analyses and Interactive Visualization for Document Exploration and Sensemaking in Jigsaw", *IEEE Transactions on Visualization and Computer Graphics*, Vol. 19, No. 10, October 2013, pp. 1646-1663.

Basole, R.C., Clear, T., Hu, M., Mehrotra, H., and Stasko, J., "Understanding Interfirm Relationships in Business Ecosystems with Interactive Visualization", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '13), Vol. 19, No. 12, December 2013, pp. 2526-2535.

(38 of 151 = 25% papers accepted)

Liu, Z., Navathe, S., and Stasko, J., "Ploceus: Modeling, Visualizing and Analyzing Tabular Data as Networks," *Information Visualization*, Vol. 13, No. 1, January 2014, pp. 59-89.

Kang, Y. and Stasko, J., "Characterizing the intelligence analysis process through a longitudinal field study: Implications for visual analytics", *Information Visualization*, Vol. 13, No. 2, April. 2014, pp. 134-158.

Görg, C., Liu, Z., and Stasko, J., "Reflections on the Evolution of the Jigsaw Visual Analytics System," *Information Visualization*, Vol. 13, No. 4, October 2014, pp. 336-345.

Sadana, R., Major, T., Dove, A., and Stasko, J., "OnSet: A visualization technique for large-scale binary set data", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '14), Vol. 20, No. 12, December 2014, pp. 1993-2002. (45 of 196 = 23% papers accepted)

Stolper, C.D, Kahng, M., Lin, Z., Foerster, F., Goel, A., Stasko, J., Chau, D.H., "GLO-STIX: Graph-Level Operations for Specifying Techniques and Interactive eXploration", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '14), Vol. 20, No. 12, December 2014, pp. 2320-2329.
(45 of 196 = 23% papers accepted)

Han, Y., Rozga, A., Dimitrova, N., Abowd, G.D., Stasko, J., "Visual Analysis of Proximal Temporal Relationships of Social and Communicative Behaviors," *Computer Graphics Forum*, (Paper presented at EuroVis '15) Vol. 34, No. 3, June 2015, pp. 51-60. (51 of 160 = 32% papers accepted)

Kahng, M., Navathe, S., Stasko, J., and Chau, D.H., "Interactive Browsing and Navigation in Relational Databases", *PVLDB*, Vol. 9, No. 12, 2016, pp. 1017-1028.

Sadana, R. and Stasko, J., "Designing Multiple Coordinated Visualizations for Tablets", *Computer Graphics Forum*, (Paper presented at EuroVis '16), Vol. 35, No. 3, June 2016, pp. 261-270.

(50 of 183 = 27% papers accepted)

Hu, M., Wongsuphasawat, K., and Stasko, J., "Visualizing Social Media Content with SentenTree", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '16), Vol. 23, No. 1, January 2017, pp. 621-630. (38 of 165 = 23% papers accepted)

Isenberg, P., Heimerl, F., Koch, S., Isenberg, T., Xu, P., Stolper, C.D., Sedlmair, M., Chen, J., Möller, T., and Stasko, J., "vispubdata.org: A Metadata Collection about IEEE Visualization (VIS) Publications", *IEEE Transactions on Visualization and Computer Graphics*, Vol. 23, No. 9, September 2017, pp. 2199-2206. Srinivasan, A. and Stasko, J., "Orko: Facilitating Multimodal Interaction for Visual Network Exploration and Analysis", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '17) Vol. 24, No. 1, January 2018, pp. 511-521. (39 of 170 = 23% papers accepted)

Choo, J., Kim, H., Clarkson, E., Liu, Z., Lee, C., Li, F., Lee, H., Kannan, R., Stolper, C.D., Stasko, J. and Park, H. "VisIRR: A Visual Analytics System for Information Retrieval and Recommendation for Large-Scale Document Data". *ACM Transactions on Knowledge Discovery from Data*, Vol. 12, No. 1, Article 8, January 2018, 20 pages.

Charles Perin, Romain Vuillemot, Charles Stolper, John Stasko, Jo Wood, Sheelagh Carpendale, "State of the Art of Sports Data Visualization", *Computer Graphics Forum*, (CGF / Proc. of Eurovis '18 STAR reports), Vol. 37, No. 3, 2018, pp. 663-686.

Arjun Srinivasan, Steven M. Drucker, Alex Endert, and John Stasko, "Augmenting Visualizations with Interactive Data Facts to Facilitate Interpretation and Communication", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '18) Vol. 25, No. 1, January 2019, pp. 672-681. (47 of 185 = 25% papers accepted)

Emily Wall, Meeshu Agnihotri, Laura Matzen, Kristin Divis, Michael Haass, Alex Endert, and John Stasko, "A Heuristic Approach to Value-Driven Evaluation of Visualizations", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '18) Vol. 25, No. 1, January 2019, pp. 491-500. (47 of 185 = 25% papers accepted)

Dylan Cashman, Shah Rukh Humayoun, Florian Heimerl, Kendall Park, Subhajit Das, John Thompson, Bahador Saket, Abigail Mosca, John T. Stasko, Alex Endert, Michael Gleicher, Remco Chang, "A User-based Visual Analytics Workflow for Exploratory Model Analysis", *Computer Graphics Forum*, (Paper presented at EuroVis '19) Vol. 38, No. 3, June 2019, pp. 185-199. (59 of 189 = 31% papers accepted)

Arvind Satyanarayan, Bongshin Lee, Donghao Ren, Jeffrey Heer, John Stasko, John Thompson, Matthew Brehmer, and Zhicheng Liu, "Critical Reflections on Visualization Authoring Systems", *IEEE Transactions on Visualization and Computer Graphics*, (Paper presented at InfoVis '19), Vol. 26, No. 1, January 2020, pp. 461-471. (53 of 214 = 25% papers accepted)

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Arjun Srinivasan and John Stasko, "How to Ask What to Say?: Strategies for Evaluating Natural Language Interfaces for Data Visualization," *IEEE Computer Graphics and Applications*, Vol. 40, No. 4, Jul-Aug 2020, pp. 96-103.

Ayshwarya Saktheeswaran, Arjun Srinivasan, and John Stasko, "Touch? Speech? or Touch and Speech? Investigating Multimodal Interaction for Visual Network Exploration and Analysis," *IEEE Transactions on Visualization and Computer Graphics*, (Paper from IEEE PacificVis '20), Vol. 26, No. 6, June 2020, pp. 2168-2179.

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Yu Fu and John Stasko, "More Than Data Stories: Broadening the Role of Visualization in Contemporary Journalism", *IEEE Transactions on Visualization and Computer Graphics*, Vol. 30, No. 8, August 2024, pp. 5240-5259.

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# C. Published Books and Parts of Books

1. Books

*Software Visualization: Programming as a Multimedia Experience*, edited by J. Stasko, J., Domingue, J., Brown, M. and Price, B., MIT Press, Cambridge, MA, 1998.

*Information Visualization: Human-Centered Issues and Perspectives*, edited by A. Kerren, J. Stasko, J.-D. Fekete, and C. North, Springer, 2008.

*Post-WIMP Interaction for Information Visualization*, Bongshin Lee, Arjun Srinivasan, Petra Isenberg and John Stasko, appears in Foundations and Trends in Human-Computer Interaction series, now Publishers, Boston, MA, 2021.

2. Book Chapters

Stasko, J., "Smooth Continuous Animation for Portraying Algorithms and Processes" *Software Visualization*, Eds: Stasko, Domingue, Brown and Price, MIT Press, 1998, Chapter 8, pp. 103-118.

Stasko, J., "Building Software Visualizations through Direct Manipulation and Demonstration" *Software Visualization*, Eds: Stasko, Domingue, Brown and Price, MIT Press, 1998, Chapter 14, pp. 187-204.

Stasko, J., "Empirically Assessing Algorithm Animations as Learning Aids" *Software Visualization*, Eds: Stasko, Domingue, Brown and Price, MIT Press, 1998, Chapter 28, pp. 419-438.

Kerren, A. and Stasko, J., "Algorithm Animation – Introduction", Proceedings of the International Dagstuhl Seminar on Software Visualization, Schloss Dagstuhl, May 2001, appears in *Software Visualization State-of-the-Art Survey*, LNCS 2269, Stephan Diehl (ed.), Springer Verlag, pp. 1-15, 2001.

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Stasko, J. and Hundhausen, C. "Algorithm Visualization", *Computer Science Education Research*, Eds: S. Fincher and M. Petre, RoutledgeFalmer, London, 2004, pp. 199-228.

Stasko, J. "Data Structure Visualization", *Handbook of Data Structures and Applications*, Eds: D. Mehta and S. Sahni, Chapman & Hall/CRC, 2004, Chapter 44, pp. 44-1 – 44-13.

Catrambone, R., Stasko, J., and Xiao, J., "ECA as User Interface Paradigm," *From Brows to Trust: Evaluating Embodied Conversational Agents*, Eds: Z. Ruttkay and C. Pelachaud, Kluwer, 2004, pp. 239-267.

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Brehmer, M., Lee, B., Stasko, J. and Tominski, C., "Interacting with Visualization on Mobile Devices", in *Mobile Data Visualization*, (Editors: Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyoung Choe), A K Peters/CRC Press, 2022, pp. 67-110.

Bentley, F., Choe, E.K., Mamykina, L., Stasko, J. and Irani, P., "Evaluating Mobile Visualizations", in *Mobile Data Visualization*, (Editors: Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyoung Choe), A K Peters/CRC Press, 2022, pp. 177-207.

#### **D.** Editor for Proceedings and Collections

DePauw, W., Reiss, S., and Stasko, J. editors, Workshop on Software Visualization, 2001 International Conference on Software Engineering, Toronto, CA, May 2001.

Diehl, S., Stasko, J, and Spencer, S. editors, *Proceedings of the 2003 ACM Symposium on Software Visualization*, San Diego, CA, June 2003.

Stasko, J. and Diehl, S., editors, *Information Visualization*, Special issue on Software Visualization, vol. 3, no. 3, Autumn 2004.

Stasko, J. and Ward, M., editors, *Proceedings of the 2005 IEEE Symposium on Information Visualization*, Minneapolis, MN, October 2005.

Ward, M.O. and Stasko, J. T., Introduction to the Special Issue, *Information Visualization*, vol. 5, no. 2, pp. 111, 2006.

Stasko, J. T. and Ward, M.O., Guest Editorial: InfoVis 2005, *IEEE Transactions on Visualization and Computer Graphics*, vol. 12, no. 4, pp. 535, 2006.

Stasko, J. and van Wijk, J., editors, *IEEE Transactions on Visualization and Computer Graphics*, vol. 12, no. 5, Sept./Oct. 2006, (Proceedings from the 2006 IEEE Symposium on Information Visualization).

Cook, K., Earnshaw, R., and Stasko, J., "Discovering the Unexpected," Guest Editors' Introduction, *IEEE Computer Graphics and Applications*, vol. 27, no. 5, pp. 15-19, September/October 2007.

Stasko, J. and van Wijk, J. editors, *Proceedings of the IEEE Symposium on Visual Analytics Science and Technology 2009*, Atlantic City, NJ, October 2009.

Kerren, A., Plaisant, C., and Stasko, J.T., "Information Visualization: State of the field and new research directions," (Special issue introduction), *Information Visualization* Vol. 10, No. 4, Oct. 2011, pp. 269-270.

Andrienko, G., Liu, S., and Stasko, J., Elmqvist, N., Lee, B., Ma, K.-L., Ahrens, J., Kirby, R.M., Roerdink, J., editors "Preface", *IEEE Transactions on Visualization and Computer Graphics*, vol. 23, no. 1, Jan. 2017, (Editors Introduction to IEEE VIS 2016).

# **E.** Conference Presentations

1. Invited Keynote Addresses

SoftVis '99, 3<sup>rd</sup> Australian Workshop on Software Visualization December 1999, Sydney, Australia

International Computing Education Research Workshop (ICER) 2007 September 2007, Atlanta, GA

IEEE Symposium on Visual Languages and Human-Centered Computing 2008 ACM 2008 Symposium on Software Visualization September 2008, Herrsching, Germany

International Symposium on Visual Computing 2010 November 2010, Las Vegas, NV

Graphics Interface 2013 Conference May 2013, Regina, Saskatchewan, Canada EuroVis 2014 Conference June 2014, Swansea, Wales, U.K.

CANVAS (Canadian Visual Analytics Summer School) 2014 July 2014, Vancouver, B.C., Canada

IEEE Joint Intelligence and Security Informatics Conference (JISIC) 2014 September 2014, The Hague, Netherlands

VIZBI (Visualizing Biological Data) Conference 2015 March 2015, Boston, MA

International Symposium on Graph Drawing and Network Visualization 2019 September 2019, Prague, Czech Republic

ChinaVis 2021 Conference July 2021, Wuhan China (remote presentation)

 Conference presentations with Proceedings (refereed) Reiss, S. and Stasko, J., "The Brown Workstation Environment: A User Interface Design Toolkit," *Proceedings of the IFIP WG 2.7 Working Conference on Engineering for Human-Computer Interaction*, pp. 215-228, August, 1989.

Stasko, J., "A Practical Animation Language for Software Development," *Proceedings of the 1990 IEEE International Conference on Computer Languages*, pp. 1-10, March 1990.
(32 of 138 = 23% papers accepted.)

Stasko, J., "Simplifying Algorithm Animation with TANGO," *Proceedings of the 1990 IEEE Workshop on Visual Languages*, pp. 1-6, October 1990.

Stasko, J., "Using Direct Manipulation to Build Algorithm Animations by Demonstration," *Proceedings of the ACM SIGCHI 1991 Conference on Human Factors in Computing Systems*, pp. 307-314, May 1991. (30 of 200 = 15% papers accepted.)

Appelbe, W. and Stasko, J., "Utilizing Program Visualization and Animation Techniques to Aid Parallel Program Development and Debugging" (Short paper), *Proceedings of the ACM/ONR 1991 Workshop on Parallel and Distributed Debugging*, pp. 207-209, May 1991.

Das, S., Fujimoto, R. and Stasko, J., "Animating the Execution of Time Warp Programs," *Proceedings of the 6th Workshop on Parallel and Distributed Simulation*, pp. 195-196, January 1992. (Presented as poster paper.) Badre, A., Beranek, M., Morris, J., and Stasko, J., "Evaluating Program Visualization Systems as Instructional Aids," *Proceedings of the 5th International Conference on Computers and Learning*, June 1992. Published in *Lecture Notes in Computer Science*, Volume 602, pp. 87-99, Springer-Verlag.

Turner, C. and Stasko, J., "Tidy Animations of Tree Algorithms," *Proceedings of the 1992 IEEE International Workshop on Visual Languages*, pp. 216-218, September 1992. (Presented as poster paper.)

Stasko, J. and Patterson, C., "Understanding and Characterizing Software Visualization Systems," *Proceedings of the 1992 IEEE International Workshop on Visual Languages*, pp. 3-10, September 1992.

Stasko, J., Badre, A. and Lewis, C., "Do Algorithm Animations Assist Learning? An Empirical Study and Analysis," *Proceedings of the ACM/INTERACT INTERCHI* 1993 Conference on Human Factors in Computing Systems, pp. 61-66, April 1993. (62 of 330 = 19% papers accepted.)

Mukherjea, S. and Stasko, J., "Applying Algorithm Animation Techniques for Program Tracing, Debugging, and Understanding," *Proceedings of the 15th International Conference on Software Engineering*, pp. 456-465, May 1993.

Appelbe, W., Kraemer, E., Lakshmanan, B., Stasko, J. and Wehrli, J., "Supporting Parallel Program Debugging through Graphics" (Short paper), *Proceedings of the ACM/ONR 1993 Workshop on Parallel and Distributed Debugging*, pp. 172-174, May 1993.

Wehrli, J. and Stasko, J., "Interactive Three-Dimensional Visual Debugging in Massively Parallel Computation" (Short paper), *Proceedings of the ACM/ONR 1993 Workshop on Parallel and Distributed Debugging*, pp. 235-237, May 1993.

Stasko. J. and Wehrli, J., "Three-Dimensional Computation Visualization," *Proceedings of the 1993 IEEE International Symposium on Visual Languages*, pp. 100-107, August 1993.

Hudson, S. and Stasko, J., "Animation Support in a User Interface Toolkit: Flexible, Robust, and Reusable Abstractions," *Proceedings of UIST 1993*, pp. 57-67, November 1993.
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Kraemer, E. and Stasko, J., "Toward Flexible Control of the Temporal Mapping from Concurrent Program Events to Animations," *Proceedings of the 1994 International Parallel Processing Symposium*, pp. 902-908, April 1994. (126 of 385 = 33% papers accepted.) Lawrence, A., Badre, A. and Stasko, J., "Empirically Evaluating the Use of Animations to Teach Algorithms," *Proceedings of 1994 IEEE International Symposium on Visual Languages*, pp. 48-54, October 1994.

Kraemer, E. and Stasko, J., "Issues in the Comprehension of Parallel Programs," *Proceedings of the 3rd Workshop on Program Comprehension*, pp. 116-125, November 1994.

Gu, W., Eisenhauer, G., Kraemer, E., Schwan, K. Stasko, J., Vetter, J. and Mallavarapu, N., "Falcon: On-line Monitoring and Steering of Large-Scale Parallel Programs," *Proceedings of the 5th Symposium on the Frontiers of Massively Parallel Computing*, pp. 422-429, February 1995.

Topol, B., Stasko, J. and Sunderam, V., "Integrating Visualization Support into Distributed Computing Systems", *Proceedings of the 15th International Conference on Distributed Computing Systems*, pp. 19-26, May 1995. (60 of 170 = 35% papers accepted.)

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Carlson, D., Guzdial, M., Kehoe, C., Shah, V. and Stasko, J., "WWW Interactive Learning Environments for Computer Science Education," *Proceedings of the ACM SIGCSE '96 Technical Symposium on Computer Science Education*, pp. 290-294, February 1996.

Shabo, A., Guzdial, M. and Stasko, J., "Computer Science Apprenticeship," *Proceedings of the Seventh Israeli Conference on Computer-Based Systems*, pp. 77-82, June 1996.

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Csallner, C., Handte, M., Lehmann, O., and Stasko J., "FundExplorer: Supporting the Diversification of Mutual Fund Portfolios Using Context Treemaps", *Proceedings of IEEE Information Visualization 2003*, pp. 203-208, October 2003. (29 of 90 = 32% papers accepted)

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Hutchings, D. Stasko, J., and Czerwinski, M., "Distributed display environments," (Workshop Summary), *Proceedings of the 2005 CHI Extended Abstracts*, pp. 2117-2118, April 2005.

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Abdullah, K., Lee, C., Conti,G., Copeland, J., and Stasko, J., "IDS Rainstorm: Visualizing IDS Alarms", *Proceedings of IEEE Visualization for Computer Security* 2005 (VizSEC '05), pp. 1-10, October 2005.

Amar, R., Eagan, J. and Stasko, J., "Low-Level Components of Analytic Activity in Information Visualization", *Proceedings of IEEE Information Visualization 2005*, pp. 111-117, October 2005.

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Pousman, Z. and Stasko, J., "A Taxonomy of Ambient Information Systems: Four Patterns of Design," *Proceedings of the ACM Advanced Visualization Interfaces Conference (AVI '06)*, pp. 67-74, May 2006. (25% papers accepted)

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Stasko, J., Doo, M., Dorn, B. and Plaue, C., "Explorations and Experiences with Ambient Information Systems," Proceedings of the Workshop on the Issues of Designing and Evaluating Ambient Information Systems at Pervasive '07, pp. 36-41, May 2007.

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Kang, Y., Stasko, J., Luther, K., Xu, Y. and Ravi, A., "RevisiTour: Enriching the Tourism Experience with User-Generated Content," *Proceedings of the 15<sup>th</sup> International Conference on Information Technology and Travel & Tourism*, pp. 59-69, January 2008.

Yi, J.S., Kang, Y.-A., Stasko, J., and Jacko, J., "Understanding and Characterizing Insights: How Do People Gain Insights Using Information Visualization", *Proceedings of BELIV '08*, Florence, Italy, April 2008.

Eagan, J. and Stasko, J., "The Buzz: Supporting User Tailorability in Awareness Applications," *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems* (CHI '08), pp. 1729-1738, April 2008. (157 of 714 = 22% papers accepted)

Kang, Y-A. and Stasko, J., "Lightweight Task/Application Performance using Single versus Multiple Monitors: A Comparative Study", *Proceedings of the Graphics Interface 2008 Conference*, Windsor, Ontario, Canada, p. 17-24, May 2008. (34 of 85 = 40% papers accepted)

Pousman, Z., Rouzati, H., and Stasko, J., "Imprint, a Community Visualization of Printer Data: Designing for Open-ended Engagement on Sustainability," *Proceedings of ACM Conference on Computer Supported Cooperative Work (CSCW '08)*, pp. 13-16, Nov. 2008.

(86 of 370 = 23% papers accepted)

Plaue, C. and Stasko, J. "Presence & placement: exploring the benefits of multiple shared displays on an intellective sensemaking task," *Proceedings of the ACM 2009 International Conference on Supporting Group Work (GROUP '09)*, pp. 179-188, May 2009.

(40/110 = 36% papers accepted)

Plaue, C., Stasko, J., and Baloga, M. "The Conference Room as a Toolbox: Technological and Social Routines in Corporate Meeting Spaces," *Proceedings of the* 4<sup>th</sup> International Conference on Communities and Technology, pp. 95-104, June 2009.

(30/80=38% papers accepted)

Goel, A., Morse, E., Raja, A., Scholtz, J. and Stasko, J. "Introspective Self-Explanations for Report Generation in Intelligence Analysis," *Proceedings of the IJCAI-09 Workshop on Explanation-Aware Computing*, July 2009.

Han, Y., Stuntebeck, E. Stasko, J., and Abowd, G., "A Visual Analytics System for Radio Frequency Fingerprinting-based Localization", *Proceedings of IEEE VAST '09*, pp. 35-42, October 2009.

(26 of 69 = 38% papers accepted)

Kang, Y., Görg, C., and Stasko, J., "Evaluating Visual Analytics Systems for Investigative Analysis: Deriving Design Principles from a Case Study", *Proceedings of IEEE VAST '09*, pp. 139-146, October 2009. (26 of 69 = 38% papers accepted)

Stasko, J., Cohen, S., Hunter, L., and Parry, J., "How interactive visualization can assist investigative analysis: Views and perspectives from domain experts", *Proceedings of IEEE VAST '09*, pp. 279-281, October 2009. (Organized Panel)

Hutchings, D.R. and Stasko, J., "Controlling information display in larger pixel spaces: a study of window snipping by multiple-monitor users," *Proceedings of the 48th Annual Southeast Regional Conference (ACM SE '10)*, Oxford, MS, April 2010, Article 73, 6 pages.

Görg, C., Tipney, H., Verspoor, K., Baumgartner Jr, W.A., Cohen, K.B., Stasko, J., Hunter, L.E., "Visualization and Language Processing for Supporting Analysis Across the Biomedical Literature", *Proceedings of International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES)*, September 2010, pp. 420-429.

Görg, C., Kihm, J., Choo, J., Liu, Z., Muthiah, S., Park, H., and Stasko, J., "Combining Computational Analyses and Interactive Visualization to Enhance Information Retrieval", 2010 Workshop on Human-Computer Interaction and Information Retrieval, New Brunswick, NJ, August 2010.

Kim, T., Blom, J., and Stasko, J., "Exploring Complex Mobile Life through Lightweight Visualizations," *Proceedings of EuorVA 2011*, Bergen, Norway, May 2011, pp. 37-40.

Romero, M., Vialard, A., Peponis, J., Stasko, J., Abowd, G., "Evaluating Video Visualizations of Human Behavior," *Proceedings of ACM CHI 2011*, Vancouver, B.C., May 2011, pp. 1441-1450. (409 of 1526 = 26% papers accepted)

Kim, T., Blom, J. and Stasko, J., "Exploring Complex Mobile Life through Lightweight Visualizations," *Proceedings of EuroVA 2011*, Bergen, Norway, May 2011, pp. 37-40.

Kang, Y-A. and Stasko, J., "Characterizing the Intelligence Analysis Process: Informing Visual Analytics Design through a Longitudinal Field Study," *Proceedings of IEEE VAST '11*, Providence, RI, October 2011, pp. 21-30. (26 of 80 = 33% papers accepted)

Liu, Z., Navathe, S.B., and Stasko, J., "Network-based Visual Analysis of Tabular Data," *Proceedings of IEEE VAST '11*, Providence, RI, October 2011, pp. 41-50. (Best Paper Honorable Mention)

(26 of 80 = 33% papers accepted)

Heinrich, J., Stasko, J., Weiskopf, D., "The Parallel Coordinates Matrix", *Proceedings of EuroVis '12 - Short Papers*, June 2012, pp. 37-41.

Choo, J., Lee, H., Liu, Z., Stasko, J., Park, H., "An interactive visual testbed system for dimension reduction and clustering of large-scale high-dimensional data," *Proceedings of SPIE 8654, Visualization and Data Analysis*, February 2013, 865402.

Han, Y., Rozga, A., Stasko, J., and Abowd, G.D., "Visual Exploration of Common Behaviors for Developmental Health", Proceedings *of Visual Analytics in Healthcare*, November 2013, pp. 15-18.

Sadana, R. and Stasko, J., "Designing and Implementing an Interactive Scatterplot Visualization for a Tablet Computer", *Proceedings of AVI 2014*, May 2014, pp. 265-272.

(31 of 110 = 28% papers accepted)

Stasko, J., "Value-Driven Evaluation of Visualizations", *Proceedings of BELIV 2014*, November 2014, pp. 46-53.

Xu, P., Cao, N., Qu,H., and Stasko, J., "Interactive Visual Co-Cluster Analysis of Bipartite Graphs", *Proceedings of IEEE PacificVis 2016*, April 2016, pp. 32-39. (29 of 97=30% papers accepted)

Saket, B., Endert, A., and Stasko, J., "Beyond Usability and Performance: A Review of User Experience-focused Evaluations in Visualization", *Proceedings of BELIV 2016*, October 2016, pp. 133-142.

Sadana, R. and Stasko, J., "Expanding Selection for Information Visualization Systems on Tablet Devices", *Proceedings of Interactive Spaces and Surfaces (ISS)* 2016, November 2016, pp. 149-158. (33 of 119=28% papers accepted)

Godwin, A. and Stasko, J., "HotSketch: Drawing Police Patrol Routes among Spatiotemporal Crime Hotspots", Proceedings of the Hawaii International Conf. on Systems Sciences (HICSS '17), January 2017, pp. 1372-1380.

Srinivasan, A. and Stasko, J., "Natural Language Interfaces for Data Analysis with Visualization: Considering What Has and Could Be Asked", *Proceedings of EuroVis* '17 – Short Papers, June 2017, pp. 55-59.

Godwin, A., Wang, Y., and Stasko, J., "TypoTweet Maps: Characterizing Urban Areas through Typographic Social Media Visualization", *Proceedings of EuroVis '17 – Short Papers*, June 2017, pp. 25-29.

Godwin, A. and Stasko, J., "Nodes, Paths, and Edges: Using Mental Maps to Augment Crime Data Analysis in Urban Spaces", *Proceedings of EuroVis '17 – Short Papers*, June 2017, pp. 19-23.

Liu, Z., Thompson, J., Wilson, A., Dontcheva, M., Delorey, J., Grigg, S., Kerr, B., and Stasko, J., "Data Illustrator: Augmenting Vector Design Tools with Lazy Data Binding for Expressive Visualization Authoring", *Proceedings of ACM CHI '18*, April 2018, Paper 123, 13 pages.

(Best Paper Award)

(667 of 2590=26% papers accepted)

Thompson, J., Srinivasan, A., and Stasko, J., "Tangraphe: Interactive Exploration of Network Visualizations using Single Hand, Multi-touch Gestures", *Proceedings of AVI '18*, May 2018, 5 pages.

Emily Wall, John Stasko and Alex Endert, "Toward a Design Space for Mitigating Cognitive Bias in Vis," (Short paper), *Proceedings of IEEE VIS '19*, Oct. 2019, pp. 111-115. (59 of 186 = 32% papers accepted)

(59 of 186 = 32% papers accepted)

Malika Agarwal, Arjun Srinivasan and John Stasko, "VisWall: Visual Data Exploration Using Direct Combination on Large Touch Displays", (Short paper), *Proceedings of IEEE VIS '19*, Oct. 2019, pp. 26-30. (59 of 186 = 32% papers accepted)

Po-Ming Law, Alex Endert, and John Stasko, "Characterizing Automated Data Insights", (Short Paper), 2020 IEEE VIS Conference, Oct. 2020. (59 of 164 = 36% papers accepted)

Po-Ming Law, Alex Endert, and John Stasko, "What are Data Insights to Professional Visualization Users?", (Short Paper), 2020 IEEE VIS Conference, Oct. 2020. (59 of 164 = 36% papers accepted)

John R. Thompson, Zhicheng Liu, and John Stasko, "Data Animator: Authoring expressive Animated Data Graphics", *Proceedings of ACM CHI '21*, May 2021, Paper 15, 18 pages. (749 of 2844 = 26% papers accepted)

Arjun Srinivasan, Nikhila Nyapathy, Bongshin Lee, Steven M. Drucker, and John Stasko, "Collecting and Characterizing Natural Language Utterances for Specifying Data Visualizations", *Proceedings of ACM CHI '21*, May 2021, Paper 464, 10 pages. (749 of 2844 = 26% papers accepted)

Po-Ming Law, Leo Yu-Ho Lo, Alex Endert, John Stasko, and Huamin Qu, "Causal Perception in Question-Answering Systems", *Proceedings of ACM CHI '21*, May 2021, Paper 603, 15 pages.

(749 of 2844 = 26% papers accepted)

Hayeong Song, Yu Fu, Bahador Saket, and John Stasko, "Understanding the Effects of Missing Values on Visual Data Exploration" (Short Paper) 2021 IEEE VIS Conference, pp. 161-165.

Kaely Hall, Dong Whi Yoo, Wenrui Zhang, Mehrab Bin Morshed, Vedant Das Swain, Gregory D. Abowd, Munmun De Choudhury, Alex Endert, John T. Stasko, and Jennifer G. Kim, "Supporting the Contact Tracing Process with WiFi Location Data: Opportunities and Challenges", *Proceedings of ACM CHI '22*, April 2022, Paper 76, 14 pages. (24.6% papers accepted)

Yu Fu and John T. Stasko, "Supporting Data-Driven Basketball Journalism through Interactive Visualization." *Proceedings of ACM CHI '22*, April 2022, Paper 598, 17 pages.

(24.6% papers accepted)

Rishab Mitra, Arpit Narechania, Alex Endert, and John Stasko, "Facilitating Conversational Interaction in Natural Language Interfaces for Visualization", (Short Paper), 2022 IEEE VIS Conference, October 2022. (33 of 104 = 32% papers accepted)

Hayeong Song, Zhengyang Qi, John Stasko, and Diyi Yang, "Understanding People's Needs in Viewing Diverse Social Opinions about Controversial Topics", (Short Paper), 2023 IEEE PacificVis Conference, April 2023, pp. 6-10.

Grace Guo, John Stasko, and Alex Endert, "What We Augment When We Augment Visualizations: A Design Elicitation Study of How We Visually Express Data Relationships", *Proceedings of AVI '24*, June 2024, pp. 9:1-9:5.

Laura Matzen, Mallory Stites, Kristin Divis, Alexander Bendeck, John Stasko, and Lace Padilla, "Effects of Forecast Order, Cost, and Risk on Decision Making with Multiple Forecast Visualizations", Uncertainty Visualization 2024 Workshop, October 2024.

Subham Sah, Rishab Mitra, Arpit Narechania, Alex Endert, John Stasko, Wenwen Dou, "Generating Analytic Specifications for Data Visualization from Natural Language Queries using Large Language Models", NLVIZ Workshop, October 2024.

Yu Fu, Shunan Guo, Jane Hoffswell, Victor S. Bursztyn, Ryan A. Rossi, and John T. Stasko, "The Data Says Otherwise" - Towards Automated Fact-checking and Communication of Data Claims", *Proceedings of ACM UIST '24*, October 2024, pp. 134:1-134:20.

(561 of 2567 = 22% papers accepted)

Alexander Bendeck, Clio Andris, and John Stasko, "ROBIN: An Interactive Visualization System and Instructional Tool to Democratize United States Domestic Migration Data", *Proceedings of HICSS '25*, January 2025, pp. xx-xx.

### 3. Conference Presentations without Proceedings

Stasko, J., "TANGO: A Framework and System for Algorithm Animation," Doctoral Consortium of the ACM SIGCHI 1989 Conference on Human Factors in Computing Systems, April 1989.

Stasko, J. "Three-Dimensional Algorithm Animation," (Short papers program) ACM SIGCHI 1992 Conference on Human Factors in Computing Systems, May 1992.

Stasko, J., "Software Understanding through Visualization," Basic Research Symposium at the ACM SIGCHI 1992 Conference on Human Factors in Computing Systems, May 1992.

Recker, M., Ram, A., Li, G. Shikano, T., and Stasko, J., "Multimedia Information Access in Support of Knowledge Construction," Annual Meeting of the American Educational Research Association, April 1995.

Eagan, J., Harrold, M.J, Jones, J. and Stasko, J., "Visualization for Fault Localization", Dagstuhl Workshop on Software Visualization, Dagstuhl, Germany, May 2001.

Stasko, J., "Musings on Treemaps," Workshop on Research with Treemaps, Univ. of Maryland, HCIL Open House, May 2001.

Stasko, J., "Evaluating Information Visualizations: Issues and Opportunities," BELIV '06: Beyond time and errors: novel evaluation methods for information visualization, Workshop at ACM Advanced Visual Interfaces (AVI), 2006, May 2006.

### 4. Invited Panel Memberships

"Program Visualization" Second International Conference on Computer Assisted Learning May 1989, Dallas, TX

- "Software for Experimental Discrete Math" DIMACS Workshop on Computational Support for Discrete Math March 1992, New Brunswick, NJ
- "Program Visualization--Are You Drawing Useful Pictures?" ACM/ONR Workshop on Parallel and Distributed Debugging May 1993, San Diego, CA

"Software Visualization in the Year 2000"

Software Engineering/Knowledge Engineering 1995 Conference June 1995, Rockville, MD

- "Cognitive Principles in Multimedia" ACM Multimedia '96 Conference November 1996, Boston, MA
- "Models and Areas for Computer Science Education Research" ACM SIGCSE 2001 Conference February 2001, Charlotte, NC
- "Drowning in Data and Information", Panel on HCI Research Microsoft Research Faculty Summit July 2001, Seattle, WA
- "Which comes first, usability or utility?" IEEE Visualization 2003 Conference October 2003, Seattle, WA
- "Visualization for Information Security" IEEE Information Assurance 2005 Workshop June 2005, West Point, NY
- "How to Succeed at SV/VLHCC Research", IEEE VL/HCC Symposium September 2006, Brighton, U.K.
- "Data and Visual Analytics Research" U.S. Dept. of Homeland Security Research Summit March 2008, Washington D.C.
- "Visualizing Text" Investigative Reporters and Editors Conference on Computer-Assisted Reporting February 2011, Raleigh, NC
- "Research with Impact" VAC Consortium 2011 April 2011, College Park, MD
- "Transitioning Research into Re-useable Open Source or Commercial Software" IEEE VIS 2016 October 2016, Baltimore, MD
- "Succeeding by Failing The Iceberg in VIS Careers" IEEE VIS 2018 October 2018, Berlin, Germany

# F. Other

# 1. Software

XTANGO algorithm animation system--XTANGO provides an animation methodology and library that are used by developers to build animations of computer algorithms and programs. These animations have been used in classrooms and labs to help explain how the algorithms work. Dr. Stasko developed the system, and he distributes it free, via anonymous ftp from here at Georgia Tech.

POLKA and SAMBA software visualization systems--POLKA is the follow-on system to XTANGO. It introduced a new animation model that is particularly well-suited to building animations of parallel and distributed programs. POLKA has been used to develop application-specific animations of particular programs and more general libraries of animations such as GThreads, a library for visualizing pthreads programs on the KSR machine. SAMBA is a special front-end for POLKA that allows students to easily construct their own algorithm animations. Dr. Stasko developed, implemented, and supports the system. It was put out for anonymous ftp in early 1993. A number of researchers throughout the world have used POLKA to build animations of their concurrent programs. SAMBA was used in a number of different computer science departments to help teach algorithms and data structures.

PVaniM program visualization system for PVM--PVaniM provides a set of animated graphical views that depict the execution of a PVM application. The views depict the message traffic between processes and the relative workload of each process. Animation is shown with respect to both physical and logical time, to better depict the potential concurrency of the application. PVaniM was developed with Ph.D. student Brad Topol. It was put out for anonymous ftp in February 1995.

Buzz peripheral awareness system – The Buzz provides awareness of local community activities and people and external information such as weather, traffic, stocks, etc. It acts as a screen-saver showing a sequence of images where each image is a collage of pictures and text taken from a web page. More information about the system can be found at http://www.cc.gatech.edu/gvu/ii/buzz. The system was developed by advisee James Eagan.

InfoCanvas – The system is a kind of "information art." That is, the InfoCanvas is an electronic picture where the objects in the picture represent information of interest to its owner. When the state of the information changes, the visual appearance or location of the corresponding object changes. The InfoCanvas is implemented through an LCD monitor put in a picture frame and hung on a wall. More information about the system can be found at http://www.cc.gatech.edu/gvu/ii/infoart.

Jigsaw – Jigsaw is a system for investigative analysis and sense-making on large document collections. The focus of the system is on unstructured text documents such as case reports and abstracts. Jigsaw presents the documents and the entities

within the documents, and most importantly, connections between them, to help analysts "put the pieces together" and identify larger stories or plots. It has been used in law enforcement intelligence analysis to help fight crime. More information about the system and a download link can be found at http://www.cc.gatech.edu/gvu/ii/jigsaw.

CiteVis – CiteVis is a visualization system that shows citation patterns among the papers from the IEEE Information Visualization Conference. The system shows papers' counts of Google Scholar citations as well as direct citations between papers from the conference. It uses color and interaction to show the citation network, rather than the typical network of edges. More information about the system and a link to run it can be found at <u>http://www.cc.gatech.edu/gvu/ii/citevis/</u>.

NL4DV – NL4DV is a Python package that takes as input a tabular dataset and a natural language query about that dataset. In response, the toolkit returns an analytic specification modeled as a JSON object containing data attributes, analytic tasks, and a list of Vega-Lite specifications relevant to the input query. In doing so, NL4DV aids visualization developers who may not have a background in NLP, enabling them to create new visualization NLIs or incorporate natural language input within their existing systems.

https://nl4dv.github.io/nl4dv/

### 2. Published Papers

Professional Society Magazines

Stasko, J., "Animating Algorithms with XTANGO," *SIGACT News*, vol. 23, no. 2, pp. 67-71, Spring 1992.

Brown, M., Domingue, J., Price, B., and Stasko, J., "Software Visualization," *SIGCHI Bulletin*, vol. 26, no. 4, pp. 32-35, October 1994.

## G. Research Proposals and Grants (Principal Investigator or Co-Principal Investigator)

Adapting Algorithm Animation Techniques for Program Debugging and Testing National Science Foundation, Research Initiation Award Funded: \$60,000 (9/91-8/93)

Applying Program Visualization Techniques to Aid Parallel and Distributed Program Development

Joint proposal with W. Appelbe (PI) National Science Foundation Funded: \$215,904 (7/92-6/95)

GVU Industrial Partners Program, Principal Technical Liaison Mitsubishi Research Labs Funded: \$30,000 (1/93-1/94) Toward On-Line Program Steering: Tools for Monitoring, Display, Animation, and Visualization of Parallel Applications Joint proposal with J. Foley, K. Schwan, M. Ribarsky Kendall Square Research Funded: \$18,000, (4/93-3/94)

Integrating Multiple Types of Courseware in Exploratory Educational Environments Joint proposal with A. Ram, G. Li, M. Recker, A. Badre SUCCEED/Curriculum 21 Funded: \$24,804, (1/94-6/95) Matching funds: \$28,912 (EduTech)

Multimedia Support for Introductory and Advanced Computer Science Education Joint proposal with J. Foley (PI) and M. Guzdial National Science Foundation, Educational Infrastructure Program Funded: \$232,835, (9/94-12/97) Matching funds: \$78,000 (EduTech)

Using Cognitive Principles to Design Multimedia Training Environments to Support Learning

Joint proposal with R. Catrambone, M. Guzdial, and A. Ram Office of Naval Research Funded: \$382,046 (6/95-5/98)

GVU Industrial Partner Program, Principal Technical Liaison Sun Microsystems Funded: \$30,000 (9/95-8/96)

Fostering Object-Oriented Program Development and Maintenance through Visualization and Animation National Science Foundation Funded: \$116,579 (9/96-8/99)

Collaborative Reserach in Internet Topology Models: A Foundation for Large-Scale Simulators

Joint proposal with E. Zegura (PI) and K. Calvert NSF ITR Funded: \$385,363 (9/00-8/03)

GVU Industrial Partner Program, Principal Technical Liaison NCR Corporation Funded: \$40,000 (6/01-5/02)

Fostering Peripheral Information Awareness through Personalized, Expressive Art National Science Foundation - HCI

Funded: \$422,930 (9/01-8/04)

Gamma: Improving the Quality of the Next Generation of Software Systems using Software Tomography Joint proposal with M. J. Harrold (PI), R. Lipton, A. Orso National Science Foundation ITR Program Funded: \$400,000 (9/02-8/06)

Expanding the Desktop: Transforming Desktop Computing through Large-Pixel Space Displays

National Science Foundation – HCI Amount funded: \$483,688 (3/05-2/08)

Establishment of the Southeast Regional Visualization and Analytics Center Joint proposal with UNC-Charlotte, W. Ribarsky (PI) GT PI: Stasko. GT co-PIs: J. Foley, A. Goel, R. Grinter Amount funded: \$900,901 (1/06-6/09) \$60,000 GT and CoC matching (1/06-3/07)

Research Gift

TravelPort Corp. Amount funded: \$7000 (6/08)

FODAVA-Lead: Dimension Reduction and Data Reduction: Foundations for Visualization

Joint proposal with H. Park (PI), A. Gray, V. Koltchinskii, R. Monteiro National Science Foundation & Dept. of Homeland Security Amount funded: \$3,000,000 (9/08-8/13)

VACCINE Center of Excellence in Command, Control, and Interoperability Joint proposal with D. Ebert (Lead), Purdue University, and others GT PI: Stasko. GT Co-PIs: J. Foley, A. Goel Dept. of Homeland Security Amount funded: \$15,000,000 (7/09-6/15) Georgia Tech amount received: \$629,648 (4/09-9/16)

Supporting Investigative Analysts and Researchers in Sense-making across Large Document Collections through Visual Analytics National Science Foundation (III) Amount funded: \$489,671 (8/09-7/12)

The Visualization Design Environment Joint proposal with Kitware Corp. (Lead), and others (GT subcontract) DARPA XDATA Amount requested: \$499,499 (GT component) Amount funded: \$480,390 (10/12-3/17)

**Research Gift** Georgia Aquarium Amount funded: \$2000 (11/12) HCC: CGV: Small: Creating Information Visualizations without Programming National Science Foundation Amount funded: \$474,866 (8/13-7/16) **Research Gift** Adobe Amount funded: \$11,000 (12/13 & 5/14) **Research Gift** Microsoft Research Amount funded: \$8300 & Perceptive Pixel display (7/14) Bringing Information Visualization to Mobile and Wearables Google Research Award Amount funded: \$55,310 (3/15) HCC: CGV: Small: Creating Information Visualizations without Programming NSF REU Supplement Amount requested: \$8,000 Amount funded: \$8,000 (12/15-8/16) Data-Driven Decision-Making via Visual Analytics on the Microsoft Surface Hub Joint proposal with R. Basole, P. Chau, A. Endert Microsoft Research Award Amount funded: \$25,000 & Microsoft Surface Hub device (expected Jan. 2016) Personal Data Visualization and Analytics, Research gift Nokia Amount funded: \$26,368 (1/16) Modeling Human Comprehension of Data Visualizations Sandia National Laboratory Amount funded: \$30,000 (5/16) Human Comprehension of Data Visualizations Sandia National Laboratory Amount funded: \$60,000 (10/16) **Research Gift** Adobe Amount funded: \$8,100 (11/16)

Research Gift Adobe Amount funded: \$6,300 (2/17)
Research Gift Adobe
Amount funded: \$10,000 (5/17)
User-Driven Model Steering and Curation via Inference and Model-Space Sampling
Joint proposal with R. Chang (PI), A. Endert, M. Gleicher DARPA Amount requested: \$924,406 GT portion (3/17)
Research Gift Adobe Amount funded: \$19,500 (8/17)
Creating an Interprocedural Analyst Oriented Data Flow Representation Sandia National Laboratory Amount funded: \$48,500 (10/17)
III: Small: Creating Natural Data Visualization and Analysis Environments National Science Foundation Amount funded: \$493,752 (11/17)
Research Gift Adobe Amount funded: \$7,000 (1/18)
Research Gift Adobe Amount funded: \$11,900 (9/18)
Research Gift Adobe Amount funded: \$5,000 (2/19)
Research Gift Adobe Amount funded: \$5,000 (5/19)
Research Gift Adobe Amount funded: \$5,000 (11/19)

Countering the Contemporary Coercion Paradox Subcontract from Adam Stulberg (GT School of International Affairs) Office of Naval Research Amount funded: \$202,601 (8/20-12/22)

Visual Cognition in Support of Transmission Reliability Sandia National Laboratory Amount funded: \$235,000 (1/22-8/24)

## H. Research Grants and Proposals (Contributor)

Multimedia Software Advisor of student Keith Edwards, grant recipient Sun Microsystems Funded: \$41,727 (7/92-6/94)

An Environment for Educational Delivery and Development for Computing M. McCracken, P. Freeman, J. Foley, (co-PIs)
A. Badre, S. Hudson, D. Lawton, R. Shackleford, J. Stasko (faculty contributors) National Science Foundation Educational Infrastructure Program Funded: \$200,000 (9/92-8/94)
Professors Stasko and Hudson were major contributors to the technical document of the proposal, and they were primary contributors to the technical development within the project.

NSF Graduate Traineeship Program, Human-Computer Interaction Faculty participant (GVU Center Award) Funded: \$530,000 (9/94-8/99)

## InSpace

Research collaboration with Steelcase Corporation E. Mynatt (PI) K. Edwards, I. Essa, R. Grinter, J. Stasko (faculty contributors) Funded: (8/05-9/06)

# I. Research Honors and Awards

1995 College of Computing Junior Faculty Research Award
1999 Edenfield Faculty Fellowship Award
2001 Raytheon Faculty Fellowship Award (with L. Liu)
Brian Shackel Best Paper Award, INTERACT 2001 Conference
Best Paper Award, IEEE Information Visualization 2004 Symposium
Winner, University Division, IEEE VAST 2007 Contest
Best Paper Award – Honorable Mention, IEEE Information Visualization 2009
Best Paper Award – Honorable Mention, IEEE VAST 2011

ACM Distinguished Scientist, inducted 2011 Most Influential Paper from 20 years ago, IEEE VL/HCC Conference 2012 IEEE VGTC Visualization Technical Achievement Award, 2012 IEEE Fellow, inducted 2014 ACM SIGSOFT Impact Paper Award, 2015 Most Influential Paper from 20 years ago, IEEE VL/HCC Conference 2015 Best Poster Award – Honorable Mention, IEEE VIS 2015, ACM CHI Academy, inducted 2016 Test of Time Award (10-year top impact paper) – IEEE VAST 2017 Best Paper Award, ACM CHI Conference 2018 Test of Time Award (10-year top impact paper) – IEEE Information Visualization 2018 IEEE VIS Academy, inducted 2019 ACM Fellow, inducted 2022 IEEE VGTC Visualization Lifetime Achievement Award, 2023

# **III. SERVICE**

### **A. Professional Activities**

 Memberships and Activities in Professional Societies Member, Phi Beta Kappa Honor Society, 1982-present Member, IEEE Computer Society, 1986-2011 Member, Association for Computing Machinery, 1986-2011 Senior Member, IEEE Computer Society, 2011-present Senior Member, Association for Computing Machinery, 2011-present

### 2. Editorial Activities

Associate Editor, Journal of Visual Languages and Computing, 1994-2015 Editorial board, World Wide Web: Internet and Web Information Systems, 1997-2008 Associate Editor, Information Visualization, 2001-present

Associate Editor, International Journal of Human-Computer Studies, 2004-2009

Editorial Board, *IEEE Transactions on Visualization and Computer Graphic*, 2004-2008

Editorial Board, ACM Transactions on Computer-Human Interaction, 2006-2013 Editorial Board, IEEE Transactions on Visualization and Computer Graphics, 2017-2021

# 3. Conference Organizational Activities

Workshop Co-Chair, "Software Visualization" at the CHI '94 Conference This was the first such international meeting within this area.

Special Events Chair, 1996 IEEE International Symposium on Visual Languages

Program Co-Chair, 2000 IEEE International Symposium on Visual Languages

- Workshop Co-Chair, "Software Visualization" at ICSE 2001 Conference
- Workshop Co-Chair, Dagstuhl (Germany) seminar on Software Visualization, May 2001
- Workshop Co-Chair, "Providing Elegant Peripheral Awareness" at CHI '03 Conference
- Program Chair, 2003 ACM Symposium on Software Visualization

Publicity Chair, IEEE Symposium on Information Visualization 2003

- Posters Co-Chair, IEEE Symposium on Information Visualization 2004
- Papers Co-Chair, IEEE Symposium on Information Visualization 2005

Papers Co-Chair, IEEE Information Visualization Conference 2006

- Workshop Co-Chair, Dagstuhl (Germany) seminar on Information Visualization, May 2007
- General (Conference) Chair, IEEE Information Visualization Conference 2007
- Papers Co-Chair, IEEE Visual Analytics Science & Technology (VAST) Conference 2009
- Workshop Co-Chair, Dagstuhl (Germany) seminar on Information Visualization and Human-Computer Interaction, June 2010

Workshop Co-Organizer, "Supporting Asynchronous Collaboration in Visual Analytics Systems" at AVI 2012 Conference Workshop Co-Organizer, "2nd Workshop on Interactive Visual Text Analytics" at IEEE VisWeek 2012

Steering Committee, ACM Symposium on Software Visualization, 2003-2012 Steering Committee, IEEE Information Visualization Conference, 2006-2012

Executive Committee, IEEE VisWeek, 2009-2012

- Workshop Co-Organizer, "Sports Data Visualization: What's the Score?" at IEEE VIS 2013
- Workshop Co-Organizer, "Public Health's Wicked Problems: Can InfoVis Save Lives?" at IEEE VIS 2013

General Chair, IEEE VIS 2013

VIS25 Anniversary Planning Committee, IEEE VIS 2014

- Steering Committee, IEEE VAST Conference, 2014-present
- Papers Co-Chair, IEEE Visual Analytics Science & Technology Conference 2016
- Workshop Co-Organizer, "Multimodal Interaction for Data Visualization", at AVI 2018 Conference

Chair, Steering Committee, IEEE VAST Conference, 2018-2020

Doctoral Colloquium Co-Chair, INTERACT 2021 Conference

Overall Papers Co-Chair, IEEE VIS Conference 2023

## 4. Conference Committee Activities

Program Committee, 1993 Vienna Conference on Human-Computer Interaction Program Committee, 1993 IEEE International Symposium on Visual Languages Program Committee, 1994 IEEE International Symposium on Visual Languages Program Committee, IFIP 2.6 Working Conference on Visual Database Systems Program Committee, 1995 IEEE International Symposium on Visual Languages Program Committee, 1996 IEEE International Symposium on Visual Languages Program Committee, 3rd Intl Conference on Knowledge Discovery and Data Mining Program Committee, 1997 IEEE International Symposium on Visual Languages Program Committee, 1998 IEEE International Symposium on Visual Languages Program Committee, 1999 IEEE International Symposium on Visual Languages Program Committee, IEEE Information Visualization 2000 Program Committee, WebVis 2000 Program Committee, New Paradigms in Information Visualization 2000 Doctoral Consortium Committee Member, ACM SIGCSE 2001 Conference Program Committee, 2001 Symposium on End-User Programming Program Committee, IEEE Information Visualization 2001 Program Committee, IEEE Information Visualization 2002 Program Committee, Visualising Software for Understanding and Analysis Workshop Program Committee, 2nd ACM International Workshop on Mobile Commerce 2002 Program Committee, 2002 Symposium on Empirical Studies of Programmers Program Committee, 2003 IEEE Symposium on Visual/Multimedia Software Engineering Program Committee, IEEE Information Visualization 2003 Program Committee, Ubicomp 2003 Demos Program Program Committee, 2004 IEEE International Symposium on Visual Languages Program Committee, IEEE Information Visualization 2004

- Program Committee, 2005 ACM Symposium on Software Visualization
- Associate Chair, 2006 ACM Conf. on Human Factors in Computing Systems (CHI)
- Program Committee, 2006 ACM Symposium on Advanced Visual Interfaces
- Program Committee, 2006 IEEE Information Assurance Workshop
- Program Committee, 2006 ACM Symposium on Software Visualization
- Program Committee, 2006 IEEE Visualization for Computer Security (VizSec)
- Program Committee, Workshop on the Issues of Designing and Evaluating Ambient Information Systems, at Pervasive '07
- Associate Chair, 2007 ACM Conf. on Human Factors in Computing Systems (CHI)
- Program Committee, 2008 Beyond time and errors: novel evaluation methods for Information Visualization Workshop (BELIV), at CHI 2008
- Program Committee, 2008 ACM Symposium on Advanced Visual Interfaces
- Program Committee, 2008 IEEE Information Visualization Conference
- Program Committee, Workshop on the Issues of Designing and Evaluating Ambient Information Systems, at Ubicomp '08
- Program Committee, 2008 ACM Symposium on Software Visualization
- Program Committee, 2009 AAAI Spring Symposium on Technosocial Predictive Analytics
- Program Committee, 2009 IEEE Information Visualization Conference
- Program Committee, 2010 IEEE Pacific Visualization Symposium
- Program Committee, 2010 International Workshop on Intelligent Visual Interfaces for Text Analysis
- Program Committee, 2010 Beyond time and errors: novel evaluation methods for Information Visualization Workshop (BELIV), at CHI 2010
- Program Committee, 2010 IEEE Information Visualization Conference
- Program Committee, 2010 ACM Symposium on Software Visualization
- Program Committee, 2011 EuroVis Symposium
- Program Committee, AAAI-11 Workshop on Scalable Integration of Analytics and Visualization
- Program Committee, 2011 IEEE Pacific Visualization Symposium
- Program Committee, 2011 IEEE VAST Conference
- Program Committee, 2012 IEEE Pacific Visualization Symposium
- Program Committee, 2012 EuroVis Conference
- Program Committee, 2012 BELIV Workshop
- Program Committee, 2012 IEEE Information Visualization Conference
- Program Committee, 2013 INTERACT Conference
- Program Committee, 2014 Workshop on Interactive Language Learning, Visualization, and Interfaces
- Program Committee, 2014 IEEE Joint Intelligence & Security Informatics Conference
- Program Committee, 2014 IEEE Information Visualization Conference
- Program Committee, 2014 BELIV Workshop
- Program Committee, 2015 ACM CHI Workshops
- Program Committee, 2015 Workshop on Visual Text Analytics
- Program Committee, 2015 IEEE Intelligence Security Informatics (ISI) Conference
- Program Committee, 2015 EuroVis Conference

- Program Committee, 2015 IEEE VAST Conference
- Program Committee, 2015 BusinessVis Workshop at IEEE VIS '15
- Program Committee, 2015 Workshop on Data Exploration for Interactive Surfaces (DEXIS) at ACM ITS '15
- Associate Chair, 2016 ACM Advanced Visual Interfaces (AVI) Conference
- Program Committee, 2016 EuroVis Conference
- Program Committee, 2016 ACM BELIV Workshop
- Program Committee, 2017 EuroVis Conference
- Program Committee, 2017 IUI Workshop on Exploratory Search and Interactive Data Analytics
- Program Committee, 2017 Workshop on Immersive Analytics: Exploring Future Interaction and Visualization Technologies for Data Analytics
- Program Committee, 2017 IEEE Information Visualization Conference
- Associate Chair, 2018 ACM Advanced Visual Interfaces (AVI) Conference
- Program Committee, 2018 CHI Workshop on Data Visualization on Mobile Devices
- Associate Chair, 2018 ACM Conf. on Human Factors in Computing Systems (CHI)
- Program Committee, 2018 ACM BELIV Workshop
- Program Committee, 2018 PacificVis Conference
- Program Committee, 2018 IEEE Information Visualization Conference
- Program Committee, 2019 EuroVA Workshop
- Program Committee, 2019 PacificVis Conference
- Program Committee, 2019 IEEE Information Visualization Conference
- Program Committee, 2020 PacificVis Conference
- Program Committee, 2020 EuroVis Conference
- Program Committee, 2020 EuroVA Workshop
- Program Committee, 2020 ACM BELIV Workshop
- Program Committee, 2022 IEEE VIS Conference
- Program Committee, 2022 ACM BELIV Workshop
- Associate Chair, 2024 ACM AVI Conference
- Program Committee, 2024 ACM BELIV Workshop
- 5. Reviewing Activities
  - Past reviewer for
    - National Science Foundation (reviewer, multiple panel member, site reviewer) Canadian Research Council
    - IEEE Transactions on Education
    - Software--Practice and Experience
    - IEEE Computer
    - SIGGRAPH Conference
    - Journal of Parallel and Distributed Computing
    - Symposium on Parallel and Distributed Tools
    - International Parallel Processing Symposium
    - Graphics Interface Conference
    - SuperComputing Conference
    - CHI Conference
    - UIST Conference

*Computers & Education* Concurrency Australian Computer Journal International Journal of Human-Computer Studies *Communications of the ACM* **IEEE Symposium on Visual Languages** Journal of Visual Languages and Computing Information Visualization Conference IEEE Transactions on Software Engineering IEEE Transaction on Systems, Man and Cybernetics ACM Transactions on Computer-Human Interaction Computer Graphics & Applications **IEEE Multimedia** Journal of Intelligent Information Systems Interacting with Computers IEEE Transactions on Visualization and Computer Graphics Information and Software Technology Information Visualization ACM Transition on Graphics ACM Transactions on Programming Languages and Systems Eurographics - IEEE TVCG Symposium on Visualization IBM Systems Journal International Journal of Human-Computer Interaction Pervasive Conference **EuroVis Conference** NICTA (Australia) INRIA

# **B. On-Campus Committees**

School of Information and Computer Science Course Planning and Scheduling Committee, 1989-1990. College of Computing PhD Admissions Committee, 1990-1991. College of Computing Space Planning Committee, 1991-1992. College of Computing Faculty Hiring Committee, 1991-1992. College of Computing PhD Admissions Committee, 1992-1993. College of Computing Undergraduate Curriculum Revision Committee, 1992-1993. College of Computing Graduate Committee, 1993-1994. GIT EduTech Director Search Committee, 1993-1994. College of Computing, Dean's Advisory Committee, 1994-1995. College of Computing Graduate Committee, 1994-1998. GIT President Clough's Inauguration Committee, 1994-1995. GVU Director's Search Committee, 1995-1996. GIT Faculty and Staff Benefits Committee, 1996-1997. College of Computing, Faculty Hiring Committee, 1999-2000. College of Computing, Undergraduate Curriculum Committee, 2001-2002.

College of Computing, Web Design Committee, 2001-2002 College of Computing, Graduate Committee, 2001-2002 GIT Committee on Electronic Theses and Dissertations, 2002 College of Computing, PhD Admissions Committee, 2000-2003 College of Computing, Structural Change Committee, 2003 GIT Undergraduate Curriculum Committee, 2002-2007 College of Computing, Graduate Committee 2003-2005 College of Computing, Faculty Computing Committee (Chair) 2008-2009 GIT GTScholar Planning Committee, 2014-2015 School of Interactive Computing, Faculty Hiring Chair, 2014-15 School of Interactive Computing, Visual Analytics Area Leader, 2015-2021 School of Interactive Computing, PhD Admissions Chair, 2015-16 College of Computing, Graduate Committee, 2015-present GIT, Undergraduate Curriculum Committee, 2016-2017 College of Computing, School of Interactive Computing Chair Search Committee, 2017 College of Computing, DCI Director Search Committee Chair, 2017-2018 College of Computing, Dean Search Committee, 2018-2019 GIT, Undergraduate Curriculum Committee, 2019-2020 School of Interactive Computing, Faculty Search Committee, 2022-2023 GIT, Commencement Speaker Planning Committee, 2022-2025 GIT Institute Awards Committee, 2023-2024 School of Interactive Computing Rep. to College RPT Committee, 2024-2025 GIT, Institute RPT Committee, 2024-2025

#### C. Internal Ph.D. Thesis Committees

Carol Kilpatrick February 1991 Advisor: Karsten Schwan "Capture and Display of Performance Information for Parallel and Distributed Applications"

Erika RogersNovember 1992Advisor: Ronald Arkin"Visual Interaction: A Link Between Perception and Problem-Solving"

Jeanette Allen March 1993 Advisor: Albert Badre "Effects of Representation on Programming Behavior"

Andrea LawrenceAugust 1993Advisor: Albert Badre"Empirical Studies of the Value of Algorithm Animation in Algorithm Understanding"

L. Gunaseelan February 1994 Advisor: Richard LeBlanc "Debugging Distributed Systems"

Weiming Gu June 1995 Advisor: Karsten Schwan "Dynamic Monitoring and On-line Steering of Parallel and Distributed Applications" Paulo SantosDecember 1995Advisor: Albert Badre"Automatic Detection of User Transitionality by Analysis of Interaction"

Sougata MukherjeaDecember 1995Advisor: James Foley"Visualizing the Information Space of Hypermedia Systems"

Krishna Bharat June 1996 Advisor: Scott Hudson "Supporting the Construction of Distributed Interoperable User Interface Applications"

Erica SadunJune 1996Advisor: James Foley"A Framework for Developing Dynamic Applications"

Douglas MackenzieNovember 1996Advisor: Ron Arkin"A Design Methodology for the Configuration of Behavior-Based Mobile Robots"

G. Drew Kessler June 1997 Advisor: Larry Hodges "A Flexible Framework for the Development of Multi-user Virtual Environment Applications"

Jeff VetterMarch 1998Advisor: Karsten Schwan"Techniques and Optimizations for High Performance Computational Steering"

Greg Eisenhauer June 1998 Advisor: Karsten Schwan "An Object Infrastructure for High-Performance Interactive Applications

Ian SmithJune 1998Advisor: Scott Hudson"Support for Multi-Viewed Interfaces"

Noel RappinDecember 1998Advisor: Mark Guzdial"A Framework for Teaching Learners to Model by Focusing Complexity of Modeling<br/>and Simulation Tools"Focusing Complexity of Modeling

Gary Boone August 2000 Advisor: Chris Atkeson "Extreme Dimensionality Reduction for Text Learning: Cluster-generated Feature Spaces"

Jason Brotherton December 2001 Advisor: Gregory Abowd "Enriching Everyday Activities through the Automated Capture and Access of Live Experiences"

Margaret FrancelMay 2002Advisor: Spencer Rugaber"Fault Location through Execution Traces"

Kulsoom AbdullahApril 2006Advisor: John Copeland"Scaling and Visualizing Network Data to Facilitate in Intrusion Detection Tasks"

Gregory Conti May 2006 Advisor: Mustaque Ahamad "Countering Denial of Information Attacks through Information Visualization"

Cindy Robertson November 2007 Advisor: Blair MacIntyre "Using Graphical Context to Reduce the Effects of Registration Error in Augmented Reality"

Sung Park (Psychology)August 2009Advisor: Richard Catrambone"Social Responses to Virtual Humans: The Effect of Human-Like Characteristics"

Edward Clarkson August 2009 Advisor: Jim Foley "Visual Search Interfaces for Online Digital Repositories"

Mario Romero August 2009 Advisor: Gregory Abowd "Supporting Human Interpretation and Analysis of Activity Captured through Overhead Video"

Nicholas Diakopoulos August 2009 Advisor: Irfan Essa "Collaborative Annotation, Analysis, and Presentation Interfaces for Digital Video"

Jeonghwa YangDecember 2009Advisor: Keith Edwards"Eden: An Interactive Home Network Management System"

Na Wen (Management) June 2010 Advisor: Nicholas Lurie "Essays on Consumer Decision-Making in Interactive and Information Rich Environments"

Brian Dorn August 2010 Advisor: Mark Guzdial "A case-based approach for supporting the informal computing education of end-user programmers"

Saurav SahayDecember 2011Advisor: Ashwin Ram"Socio-Semantic Conversational Information Access"

Craig Tashman April 2012 Advisor: W. Keith Edwards "LiquidText: active reading through multitouch document manipulation"

Yevgeniy Medynskiy April 2012 Advisor: Beth Mynatt "Design and evaluation of a health-focused personal informatics application with support for generalized goal management"

Keith Kline (Psychology) April 2012 Advisor: Richard Catrambone "The effects of visualizations and spatial ability on learning from static multimedia instructions"

Ben Medler (LCC)	July 2012	Advisor: Brian Magerko
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"Play with data - an exploration of play analytics and its effect on player expereinces"

Jennifer StollAugust 2012Advisor: W. Keith Edwards"Information Sharing in a Non-Profit Network"

Ben DavisonMay 2013Advisor: Bruce Walker"Universal Graph Literacy: Understanding How Blind and Low Vision Students can<br/>Satisfy the Common Core Standards with Accessible Auditory Graphs"

Tanyoung KimMay 2013Advisor: Carl diSalvo"Coded Visualization: The Rhetoric and Aesthetics of Data-based Cultural Interface"

Jaegul Choo July 2013 Advisor: Haesun Park "Integration of computational methods and visual analytics for large-scale highdimensional data"

Troy Nunnally August 2014 Advisor: Raheem Bayeh "Advanced Visualizations for Network Security"

Yee Chieh Chew December 2014 Advisor: Bruce Walker "Assessing the Use of Auditory Graphs for Middle School Mathematics"

Gabriel ReyesMay 2017Advisor: Gregory Abowd"Enabling One-Handed Input for Wearable Computing"

Jared Batterman (Psychology) May 2019 Advisor: Richard Catrambone "Understanding the Misunderstanding: Why Confidence Intervals are Poorly Understood and Evaluating Proposed Solutions across Sensory Modalities"

Bahador SaketMay 2020Advisor: Alex Endert"Visualization by Demonstration"

Emily WallMay 2020Advisor: Alex Endert"Detecting and Mitigating Human Bias in Visual Analytics"

Subhajit Das2021Advisor: Alex Endert"Empowering Users to Communicate their Preferences to Machine Learning Models in<br/>Visual Analytics"

Yixuan "Janice" ZhangMay 2023"The Rise & Fall of Online Trust"

Advisor: Andrea Parker

Nadia FereydooniApril 2024Advisor: Bruce Walker"Investigation of Wellbeing and Situation Awareness in Virtual Reality"

Jorge Fernandez April 2024

Advisor: Santiago Grijalva

"Generalized Energy Resource Scheduling for Distribution Grid Operations Planning" (Thesis Proposal)

Grace Guo July 2024 Advisor: Alex Endert "Augmenting Visualizations with Statistical and User-Defined Data Facts"

Arpit Narechania	December 2024	Advisor: Alex Endert
"Designing, Developing,	and Democratizing Gu	idance for Visual Analytics"

## **D. External Ph.D. Thesis Committees**

- Bruce Thomas "Animating Direct Manipulation in Human Computer Interfaces" Dept. of Computer Science, Flinders University of South Australia Advisor: Prof. Paul Calder December 1997
- Duane Jarc "Assessing the Benefits of Interactivity and the Influence of Learning Strategies on the Effectiveness of Algorithm Animation using Webbased Data Structures Courseware" Dept. of Computer Science, The George Washington University Advisor: Prof. Michael Feldman May 1999

### Christopher Hundhausen

"Toward Effective Algorithm Visualization Artifacts: Designing for Participation and Communication in an Undergraduate Algorithms Course" Dept. of Computer Science, University of Oregon Advisor: Prof. Sarah Douglas May 1999

## Lynn Bartram

"Enhancing Information Visualization with Motion" Dept. of Computer Science, Simon Fraser University Advisor: Prof. Tom Calvert June 2001

#### Carsten Friedrich

"Graph Clustering" School of Information Technologies, University of Sydney Advisor: Peter Eades January 2007

## Xiaobin Shen

"Intrusive and Non-Intrusive Evaluation of Ambient Displays" School of Information Technologies, University of Sydney

	Advisor: Peter Eades January 2007	
Heidi Lam		
	"Visual exploratory analysis of large data sets: evaluation and	
	application" Dept. of Computer Science, University of British Columbia	
	Advisor: Tamara Munzner May 2008	
A. Johannes Preto		
	"Visualization of State Transition Graphs" Dept. of Computer Science, Technische Universitat Eindhoven Advisor: Jarke van Wijk November 2008	
Ian Li		
	"Personal Informatics and Context – Using Context to Reveal Factors that Affect Behavior"	
	Human-Computer Interaction Institute, Carnegie-Mellon Univ.	
	Advisors: Anind Dey and Jodi Forlizzi August 2011	
Christopher Andrews		
	"Space to Think: Sensemaking and Large, High-Resolution Displays" Dept. of Computer Science, Virginia Tech Advisor: Chris North August 2011	
Jeff Rzeszotarski		
	"Uncovering Nuances in Complex Data Through Focus and Context Visualizations"	
	Human-Computer Interaction Institute, Carnegie-Mellon University Advisor: Aniket Kittur May 2017	
Caleb Reach		
	"Smooth Interactive Visualization"	
	Dept. of Computer Science, Virginia Tech Advisor: Chris North August 2017	
E. Georgia Tech Ho	nors and Awards	
Dean's Award, Co	ollege of Computing, Georgia Tech, 1997 ollege of Computing, Georgia Tech, 2003	
	uting, Faculty Mentor Award, 2020	

## **IV. NATIONAL & INTERNATIONAL PROFESSIONAL RECOGNITION**

#### A. Invited Lectures

University of Rhode Island, Kingston, RI, Sept. 1986. "Implementation of Priority Queues via Pairing Heaps" Vanderbilt University, Nashville, TN, March 1989. University of Tennessee, Knoxville, TN, March 1989. University of Virginia, Charlottesville, VA, March 1989. University of California at Berkeley, Berkeley, CA, March 1989. Rice University, Houston, TX, April 1989. University of Arizona, Tucson, AZ, April 1989. Georgia Institute of Technology, Atlanta, GA, April 1989. "TANGO: A Framework and System for Algorithm Animation" GTE Labs, Waltham, MA, April 1989 "TANGO: A Framework and System for Algorithm Animation" IBM T.J. Watson Research Center, Yorktown Heights, NY, June 1989. "TANGO: A Framework and System for Algorithm Animation" George Washington University, Washington, D.C., Sept. 1990. "Adding Animation to Software Development Environments" University of Indiana, Bloomington, IN, Nov. 1990. "Adding Animation to Software Development Environments" Texas A&M University, College Station, TX, Nov. 1991. "New Developments in Software Visualization and Animation" M.I.T., Boston, MA, Jan. 1992. "New Developments in Software Visualization and Animation" Dartmouth College, Hanover, NH, Jan. 1992. "New Developments in Software Visualization and Animation" DIMACS Workshop on Computational Support for Discrete Math, March 1992. New Brunswick NJ. "New Developments in Software Visualization and Animation" Simon Fraser University, Vancouver, B.C., Canada, Sept. 1992. "Techniques for Visualizing and Animating Computer Programs and Algorithms" The Open University, Milton Keynes, England, May 1993. "Expanding Algorithm Animation: Applications to Debugging and Parallel Programming" Clark-Atlanta University, Atlanta, GA, Oct. 1993. "Algorithm Animation" National Academy of Science Symposium on Statistical Methods in Software Engineering, Washington, D.C., Oct. 1993.(Invited national expert). "Software Visualization" University of Arizona, Tucson, AZ, Oct. 1995. "Software Visualization for Program Understanding" National Science Foundation Workshop on Computing Technology for Education, Durham, N.C., April 1996. "Using Student-Built Algorithm Animations as a Learning Aid" Duke University, Durham, N.C., April 1996.

"Visualizing the Execution and Performance of Parallel Programs" Oregon State University, Corvallis, OR, May 1996. "Using Student-Built Algorithm Animations as a Learning Aid" Oregon Graduate Center, Portland, OR, May 1996. "Using Software Visualization to Analyze and Understand Programs" Bucknell University, Lewisburg, PA, September 1996. "Using Student-Built Algorithm Animations as a Learning Aid" University of Maryland, College Park, MD, February 1999. "Teaching Algorithms using Animations: A View from the Trenches" University of Victoria, Victoria, B.C., Canada, April 2001 "Information Interfaces" University of Hawaii, Honolulu, HI, March 2003 "Techniques for Providing Opportunistic, Elegant, and Peripheral Awareness of Information" Carnegie-Mellon University, HCII, Pittsburgh, PA, March 2003 "Exploring Techniques for Efficient, Enjoyable Information Access" Pacific Northwest National Labs, August 2004 "Information Interfaces: Blending Information Visualization and Human-Computer Interaction" Workshop on Integrating Algorithm Visualization into Computer Science Courses Grand Valley State Univ., Grand Rapids, MI, August 2005 "Algorithm Visualization: Reflections and Future Directions" IBM Hawthorne Research Labs, February 2006 "Information Interfaces: Blending Information Visualization and Human-Computer Interaction" Microsoft Research, March 2006 "Information Interfaces: Blending Information Visualization and Human-Computer Interaction" Workshop on Integrating Algorithm Visualization into Computer Science Courses Grand Valley State Univ., Grand Rapids, MI, June 2006 "Algorithm Visualization: Reflections and Future Directions" Clemson University, Clemson, SC, June 2007 "Visualization for Information Awareness and Analysis" University of Washington, Seattle, WA, October 2007 "Visualization for Information Awareness and Analysis" Visual Analytics: Science & Application Workshop, Vancouver, B.C., February 2008 "Visualization for Investigative Analysis: Putting the Pieces Together" University of Illinois, Urbana-Champaign, IL, February 2008 "Visualization for Information Analysis and Exploration" Human-Computer Interaction and Visualization Workshop, Kaiserslauten, Germany, April 2008 "Why We All Should Have Multiple Monitors" Griffith University, Brisbane Australia, June 2008 "Visual Analytics and Jigsaw" Defense Sciences Technology Organization, Adelaide, Australia, June 2008 "Visualization for Investigative Analysis: Putting the Pieces Together with Jigsaw"

Technische Univ. Eindhoven, Eindhoven, Netherlands, November 2008
"Visualization for Information Analysis and Exploration"
Defense Intelligence Agency, Washington D.C., April 2009
"Visualization for Information Analysis and Exploration"
M.I.T., Boston, MA, September 2009
"Visual Analytics for Investigative Analysis and Exploration of Document
Collections"
Emory University, Atlanta, GA, November 2009
"Information Exploration and Analysis through Interactive Visualization"
Duke University, Durham, NC, January 2010
"Investigative Analysis and Exploration of Document Collections with Jigsaw"
NSF III Program Annual Review Meeting, Arlington, VA, April 2010
"Visual Analytics"
AAAS Symposium on Novel Methods for the Evaluation of Federal Research Programs,
Washington, D.C., April 2010
"Visual Analytics for Exploring and Investigating Research Programs"
NSF, Arlington, VA, August 2010
"Jigsaw - Visual Analytics for Data & Document Exploration and
Understanding"
Justice Institute of British Columbia, Vancouver, B.C., September 2010
"Investigative Analysis of Document Collections with Jigsaw"
SUNY Stony Brook, Computer Science <b>Distinguished Lecture Series</b> , February 2011
"Visual Analytics for Investigative Analysis and Exploration of Documents and
Data"
Investigative Reporters and Editors, Computer-Assisted Reporting Conference,
Raleigh, NC, February 2011
"Jigsaw"
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CNN, Atlanta, GA, March 2011 "Investigative Analysis of Document Collections with Jigsaw"
National Academies Board on Science, Technology, and Economic Policy, Workshop on
Measuring the Impacts of Federal Investments in Research, Session on Emerging
Metrics and Models for Assessing Research Impacts, Washington D.C., April 2011
"Visual Analytics" Dellevisia University, Haliforn Never Spectic, Conside, Neversher 2011
Dalhousie University, Halifax, Nova Scotia, Canada, November 2011
Dorothy J. Killam Memorial Lecture Series
"Visual Analytics for Investigative Analysis and Exploration of Documents and
Data"
Seoul National University, Seoul, South Korea, April 2012
"Visual Analytics for Investigative Analysis and Exploration of Documents and
Data"
Purdue University, Industrial Engineering, <b>Distinguished Seminar Series</b> , February 2013
"The Value of Visualization for Exploring and Understanding Data"
University of Arizona, Computer Science, November 2013
"The Value of Visualization for Exploring and Understanding Data"
SIAM Intl. Conf. on Data Mining '14 Workshop on Exploratory Data Analysis,

Philadelphia, PA, April 2014 "The Value of Visualization for Exploring and Understanding Data" Emory Hospital Quarterly Analytics Initiative, Atlanta, GA, May 2014 "Information Visualization and Visual Analytics" NITRD/SF Workshop on Frontiers in Visualization, Washington DC, May 2014 "Data Visualization" Boeing Data Analytics Community of Excellence, Seattle, WA, August 2014 "The Value of Visualization for Exploring and Understanding Data" KDD '14 Workshop on Large-Scale Sports Analytics, New York, NY, August 2014 "Sports Data Visualization" IBM, Cambridge MA, March 2015 "Visualization Research from the Information Interfaces Lab" University of Toronto, Toronto, Ontario, June 2015 "Reflections on Data Visualization (Some Things I've Learned Along the Way)" Disney Research, Burbank, CA, July 2015 "Data Visualization & Visual Analytics" Emory University, Institute for Quantitative Theory and Methods, Atlanta, GA, October 2015 "The Value of Visualization for Exploring and Understanding Data" Lehigh University, Data-X Distinguished Speaker Series, Bethlehem, PA, November 2015 "The Value of Visualization for Exploring and Understanding Data" Oak Ridge National Lab, Oak Ridge, TN, January 2016 "New Approaches for Information Visualization: Rethinking Existing Notions" Bentley University, Waltham, MA, April 2016 "The Value of Visualization for Exploring and Understanding Data" Nokia, San Jose, CA, May 2016 "The Value of Visualization for Exploring, Presenting, and Understanding Data" Sandia National Lab, Albuquerque, NM, May 2016 "New Approaches for Information Visualization: Rethinking Existing Notions" City University London, London, England, June 2016 "The Value of Visualization for Exploring, Presenting, and Understanding Data" Air Force Academy, Colorado Springs, CO, October 2016 "Visual Analytics on Text and Document Collections" University of North Carolina-Charlotte, Distinguished Lecture Series, January 2018 "The Value of Visualization for Exploring, Presenting, and Understanding Data" University of Oklahoma, Hitachi Distinguished Lecture Series, March 2018 "The Value of Visualization for Exploring, Presenting, and Understanding Data" University of Colorado, October 2018 "The Value of Visualization for Exploring, Presenting, and Understanding Data" M.I.T., November 2018 "The Value of Visualization for Exploring, Presenting, and Understanding Data" North Carolina State Univ., April 2019 "Techniques and Design Patterns for Data-Driven Storytelling" CSIG-VIS Speaker Series, China, February 2022, (remote talk) "Designing Flexible and Natural Interfaces for Human-Data Interaction Spatial and Abstract Data Integration" University of Waterloo, May 2024 "Reflections on the Value of Visualization" Mississippi State University, September 2024 "Reflections on the Value of Visualization"