

11 November 2007

Education

BS	Computer Science	Stanford University	1991
PhD	Computer Science	Stanford University	2000

Positions

Associate Professor	University of British Columbia	2007-
Assistant Professor	University of British Columbia	2002-2007
Research Scientist	Compaq Systems Research Center	2000-2002
Intern and Consultant	Microsoft Research	1998-1999
Consultant	Silicon Graphics Inc	1996-1998
Senior Technical Staff	The Geometry Center	1992-1995
Apprentice	The Geometry Center	1991-1992
Summer Intern	Geometry Supercomputer Project	1990
Summer Intern	ETA Systems	1986-1988

Visiting Positions

Université de Bordeaux I	Visiting Researcher	6/04-7/04
Technische Universität Berlin	Visiting Researcher	5/95-7/95

Awards

National Science Foundation Graduate Research Fellowship (USA)	1995-1998
Microsoft Graduate Research Fellowship	1998-2000

Service**Executive Committee Member**

IEEE Visualization and Graphics Technical Committee, 2004-current

Papers Chair

IEEE Symposium on Information Visualization 2004 (Austin) [Papers/Program Co-Chair]
 IEEE Symposium on Information Visualization 2003 (Seattle) [Papers/Program Co-Chair]

Organizer

IEEE Symposium on Information Visualization 2006 (Baltimore) [Best Papers Chair]
 IEEE Symposium on Information Visualization 2005 (Minneapolis) [Best Papers Committee]
 Mathematical Foundations of Scientific Visualization, Computer Graphics, and Massive Data Exploration (2004, Banff) [Massive Data Thrust Co-Organizer]
 IEEE Symposium on Information Visualization 2002 (Boston) [Interactive Posters Co-Chair]
 IEEE Symposium on Information Visualization 2001 (San Diego) [Interactive Posters Chair]
 Asilomar Microcomputer Workshop 2002 (Monterey) [Co-organizer]
 Asilomar Microcomputer Workshop 2001 (Monterey) [Co-organizer]

Program Committee Member

InfoVis: IEEE Symposium on Information Visualization 2000-2004, 2006-2007
 EuroVis: Eurographics/IEEE VGTC Symposium on Visualization 2005-2007
 MediVis: Conference on Medical/Biomedical Visualization 2007
 I3D: Symposium on Interactive 3D Graphics 2005
 GI: Graphics Interface 2003-2004
 Vis: IEEE Visualization 2003
 ISMA: Internet Statistics and Metrics Analysis - Network Visualization 1999
 DIMACS Workshop on External Memory Algorithms and Visualization 1998
 VRML: Virtual Reality Modelling Language Symposium 1997
 VisMath: Visualization and Mathematics 1997

(Names in bold are students/postdocs that I supervised.)

Refereed Journals

- J13. **Melanie Tory**, David W. Sprague, Fuqu Wu, Wing Yan So, and Tamara Munzner. Spatialization Design: Comparing Points and Landscapes. *InfoVis 07: Proceedings of the IEEE Conference on Information Visualization 2007*. Published as *IEEE Transactions on Visualization and Computer Graphics* 13(6):1262–1269, 2007.
- J12. **Heidi Lam**, Robert Kincaid, and Tamara Munzner. Overview Use in Multiple Visual Information Resolution Interfaces. *InfoVis 07: Proceedings of the IEEE Conference on Information Visualization 2007*. Published as *IEEE Transactions on Visualization and Computer Graphics* 13(6):1278–1285, 2007.
- J11. **Aaron Barsky**, Jennifer L. Gardy, Robert E.W. Hancock, and Tamara Munzner. Cerebral: a Cytoscape plugin for layout of and interaction with biological networks using subcellular localization annotation *Bioinformatics Journal*, to appear, 2007 (2 pages). Bioinformatics Advance Access published online on February 19, 2007
- J10. **Dan Archambault**, Tamara Munzner, and David Auber. TopoLayout: Multi-Level Graph Layout by Topological Features. *IEEE Trans. on Visualization and Computer Graphics*, 13(2):305–317.
- J9. **Dan Archambault**, Tamara Munzner, and David Auber. Smashing Peacocks Further: Drawing Quasi-Trees from Biconnected Components. *InfoVis 06: Proceedings of the IEEE Symposium on Information Visualization 2006*, Oct 29-31 2006. Published as *Transactions in Visualization and Computer Graphics*, 12(5), September 2006.
- J8. **James Slack** and Tamara Munzner. Composite Rectilinear Deformation for Stretch and Squish Navigation. *Vis06: Proceedings of IEEE Visualization 2006*, Oct 29 - Nov 3 2006. Published as *Transactions in Visualization and Computer Graphics*, 12(5), September 2006.
- J7. Robert Moorhead, Chris Johnson, Tamara Munzner, Hanspeter Pfister, Penny Rheingans, and Terry S. Yoo. Visualization Research Challenges: A Report Summary. *IEEE Computing in Science & Engineering* 8(4) (July/Aug) 2006, pages 66–73. [summary of B1, similar in content to J6]
- J6. Tamara Munzner, Chris Johnson, Robert Moorhead, Hanspeter Pfister, Penny Rheingans, and Terry S. Yoo. NIH/NSF Visualization Research Challenges Report Summary. *IEEE Computer Graphics and Applications*, 26(2) (March/April) 2006, pages 20–24. [summary of B1]
- J5. **James Slack**, **Kristian Hildebrand**, and Tamara Munzner. Partitioned Rendering Infrastructure for Scalable Accordion Drawing (Extended Version). *Information Visualization*, 5(2) 2006, pages 137–151. [30% new material beyond C11]
- J4. Tamara Munzner, Francois Guimbretiere, Serdar Tasiran, Li Zhang, Yunhong Zhou. TreeJuxtaposer: Scalable Tree Comparison using Focus+Context with Guaranteed Visibility, Proceedings of SIGGRAPH 2003, published as *ACM Transactions on Graphics* 22(3) 2003, pages 453–462.
- J3. Kirsten Ridsen, Mary P. Czerwinski, Tamara Munzner, Daniel B. Cook. An initial examination of ease of use for 2D and 3D information visualizations of web content, *International Journal of Human Computer Studies*, 53(5), pages 695–714, Academic Press, November 2000.
- J2. Tamara Munzner. Exploring Large Graphs in 3D Hyperbolic Space, *Computer Graphics and Applications*, 18(4), pages 18–23, IEEE Computer Society Press, July/August 1998. [summary of C3 and C4]
- J1. Andrew J. Hanson, Tamara Munzner, and George Francis. Interactive Methods for Visualizable Geometry. *Computer*, 27(4), pages 73-83, IEEE Computer Society Press, July 1994.

- C15. **Heidi Lam**, Daniel Russell, Diane Tang, and Tamara Munzner. Session Viewer: Visual Exploratory Analysis of Web Session Logs. *VAST 07: Proceedings of the IEEE Symposium on Visual Analytics Science and Technology*, pages 147–154, IEEE Computer Society Press, Oct 30-Nov 1 2007. (42% acceptance rate)
- C14. **Daniel Archambault**, Tamara Munzner, and David Auber. Grouse: Feature-Based, Steerable Graph Hierarchy Exploration. *EuroVis 07: Proceedings of the Eurographics/IEEE VGTC Symposium on Visualization*, pages 67–74, Eurographics Press, May 23-25 2007. (38% acceptance rate)
- C13. **Heidi Lam**, Ronald A. Rensink, and Tamara Munzner. Effects of 2D Geometric Transformations on Visual Memory. *APGV 06: Proceedings of the 3rd Symposium on Applied Perception in Graphics and Visualization*, ACM SIGGRAPH Press, pages 119–126, July 28-29 2006. (44% acceptance rate)
- C12. **Dmitry Nekrasovski**, **Adam Bodnar**, Francois Guimbretiere, Joanna McGrenere, and Tamara Munzner. An Evaluation of Pan&Zoom and Rubber Sheet Navigation with and without an Overview. *CHI 06: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, pages 11–20, ACM SIGCHI Press, Apr 22-27 2006. (23% acceptance rate)
- C11. **James Slack**, **Kristian Hildebrand**, and Tamara Munzner. Partitioned Rendering Infrastructure for Scalable Accordion Drawing. *InfoVis 05: Proceedings of the 2005 IEEE Symposium on Information Visualization*, pages 41–48, IEEE Computer Society Press, Oct 23-25 2005. (27% acceptance rate)
- C10. **Dale Beermann**, Tamara Munzner, and Greg Humphreys. Scalable, Robust Visualization of Large Trees. *EuroVis 05: Proceedings of the 2005 Eurographics / IEEE VGTC Symposium on Visualization*, Eurographics Press, pages 37–44, June 1-3 2005. (44% acceptance rate)
- C9. **James Slack**, **Kristian Hildebrand**, Tamara Munzner, and Katherine St. John. SequenceJuxtaposer: Fluid Navigation For Large-Scale Sequence Comparison In Context, *GCB 04: Proceedings of the 2004 German Conference on Bioinformatics*, pages 37–42, Oct 4-6 2004. (N/A acceptance rate)
- C8. **Matt Williams** and Tamara Munzner. Steerable, Progressive Multidimensional Scaling. *InfoVis 04: Proceedings of the 2004 IEEE Symposium on Information Visualization*, pages 57–64, IEEE Computer Society Press, Oct 10-12 2004. (30% acceptance rate)
- C7. **Keith Lau**, Ron Rensink, and Tamara Munzner. Perceptual Invariance of Nonlinear Focus+Context Transformations. *APGV 04: 1st Symposium on Applied Perception in Graphics and Visualization*, pages 65–72, ACM SIGGRAPH Press, August 7-8 2004. (55% acceptance rate)
- C6. Maneesh Agrawala, Denis Zorin, Tamara Munzner. Artistic Multiprojection Rendering. *Proceedings of the Eurographics Rendering Workshop 2000*, pages 125–136, Eurographics Press, June 26-28 2000. (39% acceptance rate)
- C5. Tamara Munzner, Francois Guimbretiere, and George Robertson. Constellation: A Visualization Tool For Linguistic Queries from MindNet, *InfoVis 99: Proceedings of the 1999 IEEE Symposium on Information Visualization*, pages 132–135, IEEE Computer Society Press, Oct 25-26 1999. (40% acceptance rate)
- C4. Tamara Munzner. Drawing Large Graphs with H3Viewer and Site Manager, *GD 98: Proceedings of Sixth Symposium on Graph Drawing*, pages 384–393, Springer-Verlag Lecture Notes in Computer Science 1547, August 13-15 1998. (40% acceptance rate)
- C3. Tamara Munzner. H3: Laying Out Large Directed Graphs in 3D Hyperbolic Space, *InfoVis 97: Proceedings of the 1997 IEEE Symposium on Information Visualization*, pages 2–10, IEEE Computer Society Press, Oct 20-21 1997. (59% acceptance rate)
- C2. Tamara Munzner, Eric Hoffman, K. Claffy, and Bill Fenner. Visualizing the Global Topology of the MBone, *InfoVis 96: Proceedings of the 1996 IEEE Symposium on Information Visualization*, pages 85–92, IEEE Computer Society Press, Oct 28-29 1996. (56% acceptance rate)

- C1. Tamara Munzner and Paul Burchard. Visualizing the Structure of the World Wide Web in 3D Hyperbolic Space, *VRML 95: Proceedings of the 1995 Symposium on the Virtual Reality Modelling Language*, pages 33–38, ACM SIGGRAPH Press, Dec 14-15 1995. (N/A acceptance rate) 4

Books

- B1. Chris Johnson, Robert Moorhead, Tamara Munzner, Hanspeter Pfister, Penny Rheingans, and Terry S. Yoo. NIH/NSF Visualization Research Challenges Report. IEEE Computer Society Press, 2006, ISBN 0-7695-2733-7 (40 pages)

Guest Editorships

- G5. IEEE TVCG (Trans. Visualization and Computer Graphics) 11:2, July/August 2005. (with Matt Ward)
- G4. Information Visualization, Palgrave. 4:2, Summer 2005. (with Matt Ward)
- G3. Information Visualization, Palgrave. 3:2, Summer 2004. (with Stephen North)
- G2. IEEE TVCG (Trans. Visualization and Computer Graphics) 10:4, July/August 2004. (with Stephen North)
- G1. IEEE CG&A (Computer Graphics and Applications), Special Issue on Information Visualization, Jan/Feb 2002.

Invited Presentations

In the past fourteen years, I have given over 60 invited talks. These invitations have been at a broad range of venues: over two dozen universities in North America and Europe, and over a dozen companies and industrial research labs, and two art museums. I have also given 28 talks at invitation-only conferences or workshops, including those in areas outside my own such as statistics and computer systems. Finally, I have given 13 talks in peer-reviewed conference tracks of courses and panels. In five cases the inviting organization funded the travel, to the cities of Baltimore, Bordeaux, Indianapolis, New York, and Monte Carlo.