

2 May 2011

## Education

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

## Selected 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 |

## Visiting Positions

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

## Selected Service

|                     |   |           |
|---------------------|---|-----------|
| Steering Committee  | InfoVis   | 2011-     |
| Executive Committee | IEEE Visualization and Graphics Technical Committee | 2004-2008 |
| Papers Chair        | EuroVis 2010, 2009; InfoVis 2004, 2003              |           |

## Selected Publications (Supervised students/postdocs in bold.)

### Most Recent Refereed Journals (out of 22)

- J22. **Miriah Meyer**, Tamara Munzner, Angela DePace and Hanspeter Pfister. MulteeSum: A Tool for Comparative Temporal Gene Expression and Spatial Data. *IEEE Trans. Visualization and Computer Graphics* 16(6):908-917 (Proc. InfoVis 2010), 2010.
- J21. **Daniel Archambault**, Tamara Munzner, and David Auber. Tugging Graphs Faster: Efficiently Modifying Path-Preserving Hierarchies for Browsing Paths *IEEE Trans. Visualization and Computer Graphics* 17(3):276–289, 2011.
- J20. **Miriah Meyer**, Bang Wong, Tamara Munzner, Mark Styczynski and Hanspeter Pfister. Pathline: A Tool for Comparative Functional Genomics. *Computer Graphics Forum (Proc. EuroVis 2010)*, 29(3):1043-1052, 2010.
- J19. Tamara Munzner. A Nested Model for Visualization Design and Validation. *IEEE Trans. Visualization and Computer Graphics (Proc. InfoVis 09)*, 15(6):921-928, 2009.
- J18. **Miriah Meyer**, Tamara Munzner and Hanspeter Pfister. MizBee: A Multiscale Synteny Browser. *IEEE Trans. Visualization and Computer Graphics (Proc. InfoVis 09)*, 15(6):897-904, 2009.
- J17. **Stephen Ingram**, Tamara Munzner, and Marc Olano. Glimmer: Multilevel MDS on the GPU. *IEEE Transactions on Visualization and Computer Graphics*, 15(2):249-261, Mar/Apr 2009.
- J16. David J Lynn, Geoffrey L Winsor, Calvin Chan, Nicolas Richard, Matthew R Laird, **Aaron Barsky**, Jennifer L Gardy, Fiona M Roche, Timothy H W Chan, Naisha Shah, Raymond Lo, Misbah Naseer, Jaimmie Que, Melissa Yau, Michael Acab, Dan Tulpan, Matthew D Whiteside, Avinash Chikatamarla, Bernadette Mah, Tamara Munzner, Karsten Hokamp, Robert E W Hancock, and Fiona S L Brinkman. InnateDB: facilitating systems-level analyses of the mammalian innate immune response. *Molecular Systems Biology* 4:218 2008.

- J15. **Aaron Barsky**, Tamara Munzner, Jennifer L. Gardy, and Robert Kincaid. Cerebral: Visualizing Multiple Experimental Conditions on a Graph with Biological Context. *InfoVis 08: Proceedings of the IEEE Conference on Information Visualization 2008*. Published as *IEEE Transactions on Visualization and Computer Graphics* 14(6) (Nov-Dec) 2008, pages 1253–1260. 2
- J14. **Daniel Archambault**, Tamara Munzner, and David Auber. GrouseFlocks: Steerable Exploration of Graph Hierarchy Space. *IEEE Transactions on Visualization and Computer Graphics*, 14(4) July/August 2008, pages 900–913.

### Most Recent Refereed Conference Proceedings (out of 19)

- C19. **Stephen Ingram**, Tamara Munzner, Veronika Irvine, Melanie Tory, Steven Bergner, and Torsten Möller. DimStiller: Workflows for dimensional analysis and reduction. *IEEE Conference on Visual Analytics Software and Technologies (VAST) 2010*, p 3-10.
- C18. **Daniel Archambault**, Tamara Munzner, and David Auber. TugGraph: Path-Preserving Hierarchies for Browsing Proximity and Paths in Graphs. *IEEE Pacific Visualization Symposium (PacificVis) 2009*, April 20-23 2009, pages 113–121.
- C17. **Heidi Lam** and Tamara Munzner. Increasing the Utility of Quantitative Empirical Studies for Meta-analysis. *Proc. ACM CHI Workshop on BEyond time and errors: novel evaluation methods for Information Visualization (BELIV)*, April 5 2008, pages 21–27.
- C16. **Peter McLachlan**, Tamara Munzner, Eleftherios Koutsofios, Stephen North. LiveRAC - Interactive Visual Exploration of System Management Time-Series Data. *Proc. ACM Conference on Human Factors in Computing Systems (CHI) 2008*, pages 1483–1492, April 5-10 2008.
- 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.

### Books and Book Chapters

- B4. **Heidi Lam** and Tamara Munzner. A Guide to Visual Multi-Level Interface Design From Synthesis of Empirical Study Evidence. *Synthesis Lectures on Visualization Series, Lecture 1*, Morgan Claypool, November 2010. (117 page monograph)
- B3. Tamara Munzner. Visualization. Chapter 27, p 675-707, of *Fundamentals of Graphics, Third Edition*. by Peter Shirley and Steve Marschner, with additional contributions by Michael Ashikhmin, Michael Gleicher, Naty Hoffman, Garrett Johnson, Tamara Munzner, Erik Reinhard, Kelvin Sung, William B. Thompson, Peter Willemsen, Brian Wyvill. AK Peters, 2009.
- B2. Tamara Munzner. Process and Pitfalls in Writing Information Visualization Research Papers. Chapter in *Information Visualization: Human-Centered Issues and Perspectives*. Andreas Kerren, John T. Stasko, Jean-Daniel Fekete, Chris North, eds. Springer LNCS Volume 4950, 2008, pages 134–153.
- 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)

### Invited Presentations

In the past fifteen years, I have given 123 talks. Sixty-seven were invited talks at a broad range of venues, including dozens at universities in North America and Europe, over one dozen at companies and industrial research labs, several lecture series, and two at art museums. I have also given thirty-four talks at invitation-only conferences or workshops, including those in areas outside my own such as statistics and computer systems. Finally, fifteen talks were in peer-reviewed conference tracks of courses and panels, and seven were conference paper presentations. In eight cases the inviting organization funded the travel, to the cities of Baltimore, Boston (twice), Indianapolis, New York, Monte Carlo (Monaco), Leiden (Netherlands), and Pune (India).