

# THE UNIVERSITY OF BRITISH COLUMBIA

## *Curriculum Vitae for Faculty Members*

**Date:** January 11, 2011

**Initials:**

1. **SURNAME:** Munzner

**FIRST NAME:** Tamara

**MIDDLE NAME:** Macushla

2. **DEPARTMENT/SCHOOL:** Computer Science

3. **FACULTY:** Science

4. **PRESENT RANK:** Associate Professor

**SINCE:** August 2007

### 5. **POST-SECONDARY EDUCATION**

(a) *Degrees*

University or Institution	Degree	Subject Area	Dates
Stanford University	Ph.D.	Computer Science	9/95-6/00
Stanford University	B.S.	Computer Science	9/86-6/91

### 6. **EMPLOYMENT RECORD**

(a) *Prior to coming to UBC*

University, Company or Organization	Rank or Title	Dates
Compaq Systems Research Center	Research Scientist	9/00-5/02
Microsoft Research	Summer Intern	9/98-9/98
Silicon Graphics, Inc.	Part-Time Consultant and Summer Intern	3/96-6/98
The Geometry Center	Senior Technical Staff	6/92-5/95
The Geometry Center	Apprentice	6/91-6/92
Geometry Supercomputer Project	Summer Intern	6/90-9/90
ETA Systems	Summer and Part-Time Intern	6/86-9/88

Compaq SRC was formerly DEC SRC, before Digital was bought by Compaq. The Geometry Center was the short name of the NSF-funded National Science and Technology Research Center for Computation and Visualization of Geometric Structures, which existed from 1991 to 1998. It was located at the University of Minnesota. It grew out of the smaller Geometry Supercomputer Project, also funded by the NSF. ETA Systems was a supercomputer spinoff from Control Data Corporation.

(b) *At UBC*

Rank or Title	Dates
Assistant Professor	7/02-8/07
Associate Professor	8/07-present

## 7. LEAVES OF ABSENCE

### (a) *From UBC*

University, Company or Organization at which Leave was taken	Type of Leave	Dates
UBC	Sabbatical	7/08-6/09

None

### (b) *Visiting Researcher*

Institution	Title	Start	Finish
Université de Bordeaux I	Visiting Researcher	6/04	7/04
Technische Universität Berlin	Visiting Researcher	5/95	7/95

## 8. TEACHING

### (a) *Areas of special interest and accomplishments*

In 2003 I introduced a new graduate course in information visualization. At that time, less than one dozen offerings of such a course had ever existed at any university, including the one that I co-taught at Stanford the previous year. I have continued to refine my course over the past seven years, posting the full curriculum including lectures on a course web page that has had a clear influence on subsequent courses by others.

I also put considerable effort into updating the undergraduate computer graphics course from 2003 to 2005. The current version is based not only on previous offerings at UBC, but also by integrating curricular approaches from several different strong graphics programs. Although the course was renumbered in 2004, its content was mostly unaffected by this change. I continue to refine the course each year that I teach it.

My philosophy of supervision is that co-supervision with a faculty collaborator, either inside or outside of UBC, is a direct benefit to the student. In visualization, interdisciplinary collaboration is often critical. In this case, the collaborator provides either driving problems from a particular domain, or methodologies that we exploit to evaluate our own work. In a few cases, the collaboration is with another visualization scientist. Although I find that joint supervision typically requires more of my time than sole supervision, establishing a culture of collaboration has long-term benefits for my students.

In the tables below, start dates are when the students began working with me directly. Non-UBC students attending the university of the primary supervisor are flagged with \*.

### (b) *Courses Taught at UBC*

[10/11: new]CPSC 213	Introduction to Systems
CPSC 533C	Special Topics in Graphics: Visualization
CPSC 314	Introduction to Computer Graphics
CPSC 414	Introduction to Computer Graphics
CPSC 111	Introduction to Programming

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
[10/11: new]Fall 2010	213	3	77	3/week			1
Spring 2010	111	3	112	3/week			1
Spring 2010	314	3	64	3/week			1
Fall 2009	533C	3	16	3/week			1
Spring 2008	314	3	*	3/week			2
Fall 2007	533C	3	6	3/week			1
Spring 2007	314	3	37	3/week			2
Fall 2006	533C	3	8	3/week			1
Spring 2006	111	3	76	3/week			2
Fall 2005	533C	3	20	3/week			1
Summer 2005	314	3	20	3/week			2
Spring 2005	314	3	78	3/week			2
Fall 2004	533C	3	5	3/week			1
Spring 2004	533C	3	21	3/week			1
Fall 2003	414	3	90	3/week			2
Spring 2003	533C	3	13	3/week			1

\* Spring 2008 314 course covered by colleagues because of medical leave.

(c) *Undergraduate Students Supervised*

Student Name	Program Type	Year		Principal Supervisor	CoSupervisor
		Start	Finish		
[10/11: ongoing]Jessica Dawson	Dir. studies	2009	current	Tamara Munzner	Joanna McGrenere (UBC CS)
Anton Zoubarev	Dir. studies	2009	2009	Tamara Munzner	
Alex Vostrov	Ugrad thesis	2005	2006	Tamara Munzner	Ken Elwood (UBC Civil)
David Westrom	Ugrad thesis	2004	2005	Tamara Munzner	
Ciarán Llachlan Leavitt	Ugrad	2003	2008	Tamara Munzner	
Janek Klawe	Ugrad thesis	2003	2004	Tamara Munzner	
Keith Lau	Ugrad thesis	2003	2004	Tamara Munzner	Ron Rensink (UBC CS)
Jordan Lee	Ugrad co-op	2003	2004	Tamara Munzner	
Dragana Radulovic	Ugrad co-op	2003	2004	Tamara Munzner	Raymond Ng (UBC CS)
Jeffrey Zhihui Zhang	Ugrad co-op	2003	2004	Tamara Munzner	

(d) *MSc Students Supervised*

Student Name	Program Type	Year		Principal Supervisor	CoSupervisor
		Start	Finish		
Stephen Ingram	MSc	2006	2007	Tamara Munzner	Marc Olano (UMBC)
Aaron Barsky	MSc	2006	2008	Tamara Munzner	
Peter McLachlan	MSc	2005	2006	Tamara Munzner	
Qiang Kong	MSc	2004	2006	Tamara Munzner	Raymond Ng (UBC)
Adam Bodnar	MSc	2004	2006	Tamara Munzner	Joanna McGrenere (UBC)
Dmitry Nekrasovski	MSc	2004	2005	Joanna McGrenere (UBC)	Tamara Munzner
Dale Beerman *	MSc	2003	2004	Greg Humphreys (Virginia)	Tamara Munzner
Kristian Hildebrand *	MSc	2003	2005	Bernd Froehlich (Weimar)	Tamara Munzner
Matt Williams	MSc	2003	2004	Tamara Munzner	
James Slack	MSc	2003	2005	Tamara Munzner	

\* Beerman was a student at the University of Virginia. Hildebrand was a student at Weimar University, but was a visiting student at UBC from Sep 2003 to Aug 2004.

(e) *PhD Students Supervised*

Student Name	Program Type	Year		Principal Supervisor	CoSupervisor
		Start	Finish		
[10/11: cont]Stephen Ingram	PhD	2007	current	Tamara Munzner	
[10/11: left]Peter McLachlan	PhD	2006	left 2009	Tamara Munzner	
James Slack	PhD	2005	left 2008	Tamara Munzner	
Heidi Lam	PhD	2004	2008	Tamara Munzner	
Dan Archambault	PhD	2003	2008	Tamara Munzner	David Auber (Bordeaux)

(f) *Postdocs Supervised*

Student Name	Program Type	Year		Principal Supervisor	CoSupervisor
		Start	Finish		
[10/11: new]Michael Sedlmair	postdoc	2010	current	Tamara Munzner	
[10/11: cont]Miriah Meyer*	postdoc	2008	current	Hanspeter Pfister (Harvard)	Tamara Munzner
Melanie Tory	postdoc	2004	2006	Tamara Munzner	Kelly Booth (UBC)

\* Meyer is a postdoc at Harvard.

(g) *Graduate Supervisory Committees*

Student Name	Program Type	Year		Principal Supervisor	CoSupervisor
		Start	Finish		
[10/11: new]Michael Welsman-Dinelle	MSc	-	2011	Michiel van de Panne (UBC CS)	
[10/11: cont]Chaoying Chiu	PhD	2008	current	Alan Russell (UBC Civil)	
Alan McConchie	MSc	2008	current	Brian Klinkenberg (UBC Geog)	
Dave Ternes	MSc	-	2008	Karon Maclean (UBC CS)	
Michael Huggett	PhD	2006	2007	Edie Rasmussen (UBC SLAIS)	
Brian de Alwis	PhD	2004	2008	Gail Murphy (UBC CS)	
Mik Kersten	PhD	2004	2007	Gail Murphy (UBC CS)	
Jonathan Sillito	PhD	2004	2007	Kris de Volder (UBC CS)	
Stephane Durocher	PhD	2002	2006	David Kirkpatrick (UBC CS)	
Chen Yang	MSc	-	2006	Michiel van de Panne (UBC CS)	

For PhD students, on committee. For MSc students, second reader for thesis in final year listed.

(h) *External Examiner*

Student Name	Program	Year	Institution	Country	Supervisor
Danny Holten	PhD	2009	Technical University of Eindhoven	Holland	Jarke J. van Wijk
Jerôme Thièvre	PhD	2006	INA / Université de Montpellier	France	Mountaz Hascoët
François Boutin	PhD	2005	Université de Montpellier	France	Guy Melançon
Fabien Jourdan	PhD	2004	Université de Montpellier	France	Guy Melançon
David Auber	PhD	2002	Université de Bordeaux I	France	Maylis Deleste

(i) *Short Courses*

*Mini-Course on Information Visualization.*

Three-morning course at University of Bordeaux I, June 2004.

Four-lecture course at TECS Week, Pune India, January 2008.

## 9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

- (a) *Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))*

Granting Agency	Subject	Comp	\$ Per Year	Year	Principal Investigator	Co-Investigators
NSERC Discovery Grant	Building and Evaluating Information Visualization Systems	C	\$25,000 \$25,000 \$25,000 \$25,000 100%	08-09 09-10 10-11 11-12 12-13	Tamara Munzner	[10/11: cont]
NSERC Strategic	Visually Enhanced Exploration of High-Dimensional Data	C	\$163,216 \$163,216 \$163,216 25%	07-08 08-09 09-10	T. Moeller	T. Munzner, N. de Freitas, M. Tory [10/11: cont (no-cost extension)]
AT&T Labs	LiveRAC on Daytona	NC	\$25,313 100%	09-10	Tamara Munzner	
Google	Session Viewer: A Tool to Visualize and Analyze Search Session Data	NC	\$48,820 100%	07-08	Tamara Munzner	
AT&T Labs	Visualization of Large Network Oriented Datasets	NC	\$39,000 \$47,810 \$50,520 100%	06-07 07-08 08-09	Tamara Munzner	
NSERC Discovery Grant	Scalable Information Visualization	C	\$21,000 \$21,000 \$21,000 \$21,000 100%	03-04 04-05 05-06 06-07 07-08	Tamara Munzner	
Agilent Labs	Location Constrained Graph Layout Algorithms	NC	\$29,000 100%	07-08	Tamara Munzner	
Agilent Labs	Information visualization evaluation	NC	\$36,000 100%	05-06	Tamara Munzner	
GEOIDE NCE	CIRCUITS: Collaborative Interdisciplinary Research on Communities Using Information Technology for Sustainability	C	\$124,500 \$124,500 15%	05-06 06-07	John Robinson	13 others
NSF ITR subcontract	Exploring the Tree of Life	C	\$65,000 \$73,476 100%	03-04 04-05	Tamara Munzner	
IRIS NCE	Information Visualization for Data Mining	C	\$35,000 100%	03-04	Tamara Munzner	
NSERC RTI	Displays of Disparate Resolution and Size	C	\$88,332 33%	03-04	Tamara Munzner	K. MacLean, J. McGrenere, M. van de Panne
GEOIDE NCE	GeoCognito: Connecting People with Ideas and Ideas with Place	C	\$12,500 \$75,000 \$75,000 20%	02-03 03-04 04-05	John Robinson	8 others
UBC	Startup Funds	NC	\$60,000 100%	02-03	Tamara Munzner	

(b) *Invited Presentations (Non-Conference)**Focus+Context*

SFU Cmpt 467/767, Visualization (Guest Lecture), Burnaby BC, 11/10 [**10/11: new**]

*Visualization and Biology: Fertile Ground for Collaboration*

Technical University of Eindhoven, Eindhoven Netherlands, 6/09

Institute for Innovative Computing, Harvard University, Boston MA, 2/09

Harvard Medical School, Harvard University, Boston MA, 2/09

Broad Institute, Boston MA, 2/09

*Frameworks/Models*

Harvard CS 171, Visualization (Guest Lecture), Boston MA, 2/09

*Scalable Visual Comparison of Biological Trees and Sequences*

University of Maryland College Park, College Park MD, 5/06

Distinguished Lecture, University of Maryland Baltimore County, Baltimore MD, 5/06

Indiana University, Bloomington IN, 2/06

Stanford Computer Systems Lab Colloquium, Stanford CA, 5/04

*15 Views of a Node-Link Graph: An InfoVis Portfolio*

Google, Mountain View CA, 6/06

Agilent Labs, Santa Clara CA, 6/06

National Institutes of Health, Bethesda MD, 5/06

FOO (Friends of O'Reilly) Camp, Sebastopol CA, 8/05

Information Esthetics Lecture Series One, New York NY, 7/05

*Information Visualization at UBC*

IBM TJ Watson Research, Hawthorne NY, 7/05

*Information Visualization with Accordion Drawing*

AT&T Research, Florham Park NJ, 7/05

*TreeJuxtaposer: Scalable Tree Comparison using Focus+Context with Guaranteed Visibility*

CAIDA/SDSC, San Diego CA, 8/03

*Interactive Information Visualization*

SFU Cmpt 775, Scientific Visualization (Guest Lecture), Burnaby BC, 11/04

UBC COGS 300 (Guest Lecture), Vancouver BC, 10/04

UBC CPSC 349 Honours Seminar (Guest Lecture), Vancouver BC, 10/04

SFU Cmpt 878, Scientific Visualization (Guest Lecture), Burnaby BC, 10/03

UBC CPSC 349 Honours Seminar (Guest Lecture), Vancouver BC, 9/03

UBC CPSC 349 Honours Seminar (Guest Lecture), Vancouver BC, 10/02

UBC CPSC 414 Intro Graphics (Guest Lecture), Vancouver BC, 3/03 Microsoft Research, Redmond WA, 7/03

*Interactive Visualization of Large Trees and Graphs*

University of Bordeaux, Bordeaux France, 12/02

University of Calgary, Calgary AB, 9/02

University of British Columbia, Vancouver BC, 4/02

UC Santa Cruz, Santa Cruz CA, 4/02

University of Minnesota, Minneapolis MN, 4/02

UC Davis, Davis CA, 4/02

University of Utah, Salt Lake City UT, 3/02

Georgia Tech, Atlanta GA, 3/02

*Visual Structural Comparison Between Evolutionary Trees*

New York Academy of Sciences, New York NY, 2/02

*Interactive Visualization of Large Graphs and Networks*

UT Austin, Austin TX, 3/01  
 UC Berkeley, Berkeley CA, 10/00  
 CWI, Amsterdam Netherlands, 7/00  
 Philips Design, Eindhoven Netherlands, 7/00  
 Graz University of Technology, Graz Austria, 7/00  
 Compaq SRC, Palo Alto CA, 5/00  
 Lucent/Bell Labs, Naperville IL, 4/00

*Fast Layout and Drawing of Large Directed Graphs Using Spanning Trees in 3D Hyperbolic Space*

CAIDA, San Diego CA, 11/98  
 HP Labs, Palo Alto CA, 11/98  
 Bell Labs, Murray Hill NJ, 2/98  
 AT&T Research, Florham Park NJ, 2/98

*H3: Laying Out Large Directed Graphs in 3D Hyperbolic Space*

Alexa, San Francisco CA, 1/98  
 AT&T Research, Florham Park NJ, 9/97  
 UC Santa Cruz, Santa Cruz CA, 6/97

*Visualizing the Web in 3D Hyperbolic Space*

SRI, Menlo Park CA, 4/98  
 MSRI, Berkeley CA, 12/96  
 BayCHI, Palo Alto CA, 11/96

*Visualizing the Global Topology of the MBone*

MSRI, Berkeley CA, 12/96  
 Interval Research, Palo Alto CA, 12/96

*The Making of Outside In and The Shape of Space*

University of Bielefeld, Bielefeld Germany, 7/95  
 University of Bonn, Bonn Germany, 7/95

*Integrating 3D Visualization with the World Wide Web*

Apple, Sunnyvale CA, 2/96  
 University of Bielefeld, Bielefeld Germany, 7/95  
 University of Bonn, Bonn Germany, 7/95  
 ZIB, Berlin Germany, 6/95

*Exploring Science through Video**3D Visualization in Science*

Spelman College, Atlanta GA, 2/95

*Visualizing the Invisible*

Atlanta College of Art, Atlanta GA, 2/95

*Mathematical Visualization Using Geomview*

Spelman College, Atlanta GA, 2/95  
 Swarthmore-Bryn Mawr Joint Visualization Project, Swarthmore PA, 6/94  
 Gustavus Adolphus College, St. Peter MN, 11/93  
 St. John's College, Collegeville MN, 11/93

(c) *Invited Conference/Workshop Presentations*

*MulteeSum: A Tool for Comparative Spatial and Temporal Gene Expression Data*

- THINK Conference 2010, Santa Cruz CA, 11/10 [**10/11: new**]
- Visualization and Biology: Fertile Ground for Collaboration*  
bigDATA Workshop, University of British Columbia, 5/10 [**10/11: new**]
- Visualization Process and Collaboration*  
Dagstuhl Scientific Visualization Workshop, Wadern Germany, 6/09
- Biology is Destiny: Of Graphs and Genes*  
Asilomar Microcomputer Workshop 2009, Monterey CA, 4/09
- Big Data, Visualization, and Systems Biology*  
THINK Conference 22, Santa Cruz CA, 11/08
- Research Cycles, Collaboration, and Visualization*  
VIEW Workshop, Leiden Netherlands, 6/07
- When To Walk Away: Questions To Ask In Infovis Projects*  
Dagstuhl Seminar on Information Visualization, Wadern Germany, 5/07
- Scalable Drawing of Trees and Graphs*  
Joint Statistical Meeting (Invited Session), Seattle WA, 8/06
- LiveRAC: Live Reorderable Accordion Drawing*  
AT&T Labs University Symposium, Florham Park NJ, 8/06
- TopoLayout: Layout of Graphs by Topological Feature*  
THINK Conference 21, Santa Cruz CA, 11/05
- Scalable Visual Comparison of Biological Trees and Sequences*  
PaRISTIC, Bordeaux France, 11/05
- Steerable, Progressive Multidimensional Scaling*  
Asilomar Microcomputer Workshop 2005, Monterey CA, 4/05
- Scalable Visualization with Accordion Drawing*  
Vancouver Studies in Cognitive Science 2005, Vancouver BC, 2/05
- State of the Field: InfoVis*  
NSF/NIH Visualization Research Challenges Fall Workshop, Bethesda MD, 9/04.
- Scalable Visual Comparison of Biological Trees and Sequences*  
Math. Found. of Scientific Visualization, Computer Graphics, and Massive Data Exploration, Banff AB, 5/04.  
Asilomar Microcomputer Workshop, Monterey CA, 4/04
- Human Perception Tidbits*  
THINK Conference 19, Fresno CA, 11/03
- Visual Comparison of Large Evolutionary Trees.*  
Quintessence: The Clumpy Matter of Art, Science and Math Visualization, Banff AL, 9/02
- Information Visualization for Systems People*  
Usenix 2002, Monterey CA, 6/02
- Workshop Participant  
National Science Foundation Assembling the Tree of Life Workshop II, Davis CA, 10/00
- Video Topology*  
Asilomar Microcomputer Workshop, Asilomar CA, 4/00
- Interactive Navigation of Large Graphs and Networks.*  
Workshop on Data Visualization, Memphis TN, 6/99
- Interactive Navigation of Large Networks.*  
Asilomar Microcomputer Workshop, Asilomar CA, 4/99

*Guaranteed Frame Rate Drawing for Interactive Navigation of Large Graphs.*

DIMACS Workshop on External Memory Algorithms and/or Visualization, Rutgers NJ, 5/98

*H3: Laying Out Large Directed Graphs in 3D Hyperbolic Space*

THINK Conference 13, Santa Rosa CA, 11/97

*Information Visualization with VRML*

World Movers, San Francisco CA, 2/97

*Visualizing the Global Topology of the MBone*

Workshop on Software and Mathematical Visualization, Princeton NJ, 6/96

*Dimension, Space, Information Visualization and the Web*

Imagina 96, Monte Carlo, Monaco, 2/96

*Integrating 3D Visualization with the World Wide Web*

International Workshop on Visualization and Mathematics,  
Technical University of Berlin (SFB288), Berlin Germany, 6/95

*Visualization Videos talk Mathematical Visualization Using Geomview demo*

Fourth MSI Workshop on Computational Geometry, Cornell University, Ithaca NY, 10/94

*Mathematical Visualization Using Geomview.*

Regional Geometry Institute, Smith College, Amherst MA, 7/93

*Introduction to Geomview.*

Second MSRI Conference on Geometric Visualization,  
Mathematical Sciences Research Institute, Berkeley CA, 10/92 (with Mark Phillips and Stuart Levy)

(d) *Peer-Reviewed Tutorials*

*Visual Encoding*

*Navigation through Space*

Course: Seeing, Hearing, and Touching: Putting It All Together  
SIGGRAPH 04, Los Angeles CA, 8/04

*Applications in Information Visualization*

Course: Multimodal Interface Design  
SIGGRAPH 03, San Antonio TX, 07/03

*Survey of Visualization Toolkits*

Course: Design and Application of Object-Oriented 3D Visualization Systems  
SIGGRAPH 97, Los Angeles CA, 8/97

*Visualizing Mathematics through Interactive Software*

*Visualizing Mathematics through Video*

Course: Visualizing Mathematics  
SIGGRAPH 95, Los Angeles CA, 8/95

*Basic Issues on Computer-aided Math Visualization*

Two-day course, with Mark Phillips and Stuart Levy  
AMS/MAA Joint Summer Meeting, 8/94

(e) *Peer-Reviewed Panels*

*UBC Grad Course in InfoVis*

Panel: Perspectives on Teaching Data Visualization (won Best Panel award) [10/11: new]  
VisWeek 10, Salt Lake City UT, 10/10

*Outward and Inward Grand Challenges*

Panel: Grand Challenges in Information Visualization (won Best Panel award)  
InfoVis 08, Columbus OH, 10/08

*Mathematics For Visualization versus Visualization Of Mathematics*

Panel: The Mathematical Concepts Beneath Contemporary Visualization  
Visualization 07, Sacramento CA, 10/07

*A Panorama of Publication Pitfalls*

Panel: Publishing Your Visualization Research  
Visualization 06 Doctoral Colloquium, Baltimore MD, 10/06  
Panel: How to Get Your Paper Published  
VIEW Workshop, Leiden Netherlands, 6/07  
SFU Guest Lecture, Burnaby BC, 10/07

*Visualization Careers: Academia*

Panel: Visualization Careers  
Visualization 06 Doctoral Colloquium, Baltimore MD, 10/06

*Information and Scientific Visualization: Separate but Equal*

Panel: Information and Scientific Visualization: Separate but Equal or Happy Together At Last  
Visualization 03, Seattle WA, 10/03

*In Search Of: Prescriptive Advice for Visualization*

Panel: Visualization Needs More Visual Design!  
Visualization 99, San Francisco CA, 10/99

*Panel: Mathematical Visualization: Standing at the Crossroads*

Moderator and co-organizer (won Best Panel award)  
Visualization 96, San Francisco CA, 11/96

*3D Graphics through the Internet*

Panel: 3D Graphics through the Internet: A Shootout  
SIGGRAPH 95, Los Angeles CA, 8/95

*Visualization through the World Wide Web with Geomview, Cyberview, W3Kit, and WebOOGL*

Panel: Visualization and the Web  
World Wide Web Fall 94, Chicago IL, 10/94

**10. SERVICE TO THE UNIVERSITY**

(a) *Memberships on committees, including offices held and dates*

**Departmental Committees, Chair**

2004-2008 FoWCS: Focus On Women in Computer Science

**Departmental Committees, Member**

2010-current Graduate Recruiting [**10/11: new**]  
2010-current Space [**10/11: new**]  
2009-2010 Faculty Affairs  
2009-2010 Faculty Recruiting  
2008-2010 Tenure Mini-Committee  
2007-2008 Faculty Recruiting  
2005-2008 Brown Bag Facilitator  
2003 Administrative Manager ad hoc Search, 2003  
2002-2006 Curriculum

**ICICS Committees, Member**

2003-2004 Distinguished Lecture Selection

**Departmental Outreach Talks**

February 2006

March 2005

**11. SERVICE TO THE COMMUNITY**

(a) *Memberships on scholarly committees, including offices held and dates*

2010-current InfoVis Steering Committee[**10/11: new**]

2004-2008 IEEE Visualization and Graphics Technical Committee, Executive Committee

(b) *Editorships (list journal and dates)*

**Guest Editorships**

Eurographics Computer Graphics Forum 28:3, June 2009 (special issue, Proc. EuroVis 09).

(with Hans-Christian Hege and Ingrid Hotz)

IEEE TVCG (Trans. Visualization and Computer Graphics) 11:2, July/August 2005. (with Matt Ward)

Information Visualization, Palgrave. 4:2, Summer 2005. (with Matt Ward)

Information Visualization, Palgrave. 3:2, Summer 2004. (with Stephen North)

IEEE TVCG (Trans. Visualization and Computer Graphics) 10:4, July/August 2004. (with Stephen North)

IEEE CG&A (Computer Graphics and Applications), Special Issue on Information Visualization, Jan/Feb 2002.

(c) *Program Committees*

**Papers Chair**

EuroVis: Eurographics/IEEE VGTC Symposium on Visualization 2010 (Bordeaux) [Papers/Program Co-Chair]

[**10/11: new**]

EuroVis: Eurographics/IEEE VGTC Symposium on Visualization 2009 (Berlin) [Papers/Program Co-Chair]

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

InfoVis: 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]

**PC Member**

InfoVis: IEEE Symposium on Information Visualization 2000-2004, 2006-2007, 2009-2010 [**10/11: cont**]

Vis: IEEE Visualization 2003, 2009

BELIV: BEyond time and errors: novel evaluation methods for Information Visualization 2010

EuroVis: Eurographics/IEEE VGTC Symposium on Visualization 2005-2008

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

(d) *Reviewer (journal, agency, etc., including dates)*

### **Funding agencies**

NSERC 2003-2005, 2007, 2010 [**10/11: cont**]  
 ERC: European Research Council 2010 [**10/11: new**]  
 FWF: Austrian Science Fund 2010 [**10/11: new**]  
 US NSF: United States National Science Foundation 2007, 2009  
 FQRNT: Fonds Québécois de la Recherche sur la Nature et les Technologies 2009  
 MITACS: Mathematics of Information Technology and Complex Systems 2009  
 UK EPSRC: United Kingdom Engineering and Physical Sciences Research Council 2007  
 Austrian Science Fund 2006  
 UC-MICRO: Univ. California Microelectronics Innovation and Computer Research Opportunities 2006

### **Journals**

TVCG: IEEE Transactions on Visualization and Computer Graphics 2002-2010 [**10/11: cont**]  
 IVS: Information Visualization Journal 2002, 2004, 2005, 2008-2010 [**10/11: cont**]  
 IJHCS: International Journal of Human-Computer Studies, 2009-2010 [**10/11: new**]  
 CG: Computers&Graphics, 2010 [**10/11: new**]  
 CGF: Computer Graphics Forum, 2010 [**10/11: new**]  
 CG&A: IEEE Computer Graphics and Applications 1996-1997, 2003-2005, 2007, 2009  
 TOG: IEEE Transactions on Graphics 2009  
 Bioinformatics Journal 2005, 2008  
 ACM Computing Surveys 2004, 2006-2007  
 CACM: Communications of the ACM 2007  
 ToCHI: IEEE Transactions on Computer Human Interaction 2006  
 American Mathematical Monthly 2007  
 Transactions on Internet Research 2006  
 Field Methods 2006  
 Bioinformatics Journal 2005  
 TAP: IEEE Transactions on Applied Perception 2003

### **Conferences**

UIST: User Interface Software and Technologies 1999, 2001, 2006, 2010 [**10/11: cont**]  
 Vis: IEEE Visualization 1996, 2005-2007, 2010 [**10/11: cont**]  
 SIGCHI Papers 2005-2007, 2009-2011 [**10/11: cont**]  
 SIGGRAPH Asia Papers 2009-2010 [**10/11: cont**]  
 VAST: IEEE Symposium on Visual Analytics Science and Technology 2006-2007, 2009-2010 [**10/11: cont**]  
 SIGGRAPH Papers 1999-2001, 2004-2007, 2010  
 Eurographics 2003, 2007, 2009  
 WABI: Workshop on Algorithms in Bioinformatics 2009  
 SOCG: ACM Symposium on Computational Geometry 2009  
 SIGGRAPH Sketches 2006-2007  
 VMLS: Visualization in Medicine and Life Sciences 2006  
 SIGGRAPH Courses 2002-2006

InfoVis: IEEE Symposium on Information Visualization 1997-2000, 2005  
 NPAR: Non-Photorealistic Animation and Rendering Symposium 2004  
 VDA: Visual Data Analysis 2003  
 SIGKDD: Knowledge Discovery and Data Mining 2003  
 I3D: ACM Symposium on Interactive 3D Graphics 2000  
 VisSym: Joint Eurographics/IEEE Symposium on Visualization 2000  
 VRML: Virtual Reality Modelling Language Symposium 1998  
 SCG Video: Symposium on Computational Geometry (video proceedings) 1996

### **Publishers**

Morgan Kaufmann books 2009-2010 [**10/11: cont**]  
 AK Peters books 2006-2007, 2009  
 Springer-Verlag books 2005

## **12. AWARDS AND DISTINCTIONS**

(a) *Awards for Scholarship (indicate name of award, awarding organizations and date)*

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

## **13. OTHER RELEVANT INFORMATION (Maximum One Page)**

- [**10/11: cont**] IEEE InfoVis is the top conference in my area. I have been heavily involved in its organization, including a two-year term as Papers Chair and now as a member of the Steering Committee.  
 In 2003 I did a major rewrite of the call for papers for InfoVis, introducing an author guide with a taxonomy of paper types. Later chairs have kept the guide almost identical, and added a link to my 2008 paper on *Process and Pitfalls in Writing Information Visualization Research Papers*. In the past two years, the two other major visualization conferences (Vis and EuroVis) have adopted this author guide as well.
- [**10/11: cont**] In the past fifteen years, I have given 121 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-three 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 seven cases the inviting organization funded the travel, to the cities of Baltimore, Boston, Indianapolis, New York, Monte Carlo (Monaco), Leiden (Netherlands), and Pune (India).
- I was invited to be one of the six authors of the Visualization Challenges Research report, commissioned by several directorates of the US National Science Foundation and National Institutes of Health. Our goal was to evaluate the progress of the maturing field of visualization, to help focus and direct future research projects, and to provide guidance on how to apportion national resources. Our findings and recommendations reflect not only information gathered from visualization and applications scientists during two workshops on Visualization Research Challenges but also input from the larger visualization community.

**THE UNIVERSITY OF BRITISH COLUMBIA**  
*Publication Record*

**Date:** January 11, 2011

**Initials:**

**SURNAME:** Munzner

**FIRST NAME:** Tamara

**MIDDLE NAME:** Macushla

**PUBLICATION SUMMARY:**

Category	1a Ref. Journ.	1b Ref. Conf.	1c Ref. Other	2 Unref.	3 Books	4 Patents	5 Special
Career Total	22	19	9	9	6	-	3
Last 5 Year Total	18	10	6	5	4	-	-

**1. REFEREED PUBLICATIONS**

In my area, publication at the first-tier refereed conferences has a higher impact than journal publication. I provide the acceptance rate for each conference publication below. The primary conference is IEEE Information Visualization, now in its sixteenth year. The top journal is the IEEE Transactions on Visualization and Computer Graphics. We follow the systems convention that author ordering reflects the contribution, starting with the most heavily involved person on the project. Names of students or postdocs that I supervised are in bold.

(a) *Journals*

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. [10/11: new]

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. [30% new material beyond C18].

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.

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.

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) 2007, pages 1262–1269.

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) 2007, pages 1278–1285.

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* 23(8), 2007, pages 1040–1042.

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), 2007, pages 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, pages 813–820.

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, pages 901–908.

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.

(b) *Conference Proceedings*

- 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. 28% acceptance rate) [**10/11: new**]
- 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. (39% acceptance rate)
- 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. (N/A acceptance rate)
- 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. (22% acceptance rate)
- C15. **Heidi Lam**, Daniel Russell, Diane Tang, and Tamara Munzner. Session Viewer: Visual Exploratory Analysis of Web Session Logs. Proc. IEEE Symposium on Visual Analytics Science and Technology (VAST), IEEE Computer Society Press, pages 147–154, 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*, Eurographics Press, pages 67–74, 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)
- (c) *Other*
- O9. Gardy, J., Lynn, D., Winsor, G., **Barsky, A.**, Roche, F., Chan, T., Laird, M., Chan, C., Shah, N., Richard, N., Lo, R., Naseer, M., Que, J., Yau, M., Acab, M., Tulpan, D., Whiteside, M., Munzner, T., Hancock, R., and Brinkman, F. Poster. InnateDB and Cerebral: Computational Tools for the Systems-Level Analysis of Innate Immunity. Experimental Biology, April 5-9, 2008, San Diego, CA, USA.
- O8. David J. Lynn, Fiona M. Roche, Timothy H.W. Chan, Jennifer L. Gardy, Geoff Winsor, Matthew R. Laird, Michael Acab, Calvin Chan, Naisha Shah, John Ling, Raymond Lo, **Aaron Barsky**, Tamara M. Munzner, Dan Tulpan, Matthew Whiteside, Lorne A. Babiuk, Karsten Hokamp, Robert E.W. Hancock, Fiona S.L. Brinkman. Poster. InnateDB: A knowledge base for systems biology approaches to studying mammalian innate immunity. 2nd American Society for Microbiology Pathogenomics Conference. June 24-27, 2007. Halifax, Nova Scotia, Canada.
- O7. **Heidi Lam**, Tamara Munzner, and Ronald A. Rensink. Abstract: The Invariance of Visual Long-term Memory to Geometric Transformation. Journal of Vision, 6(6):983, 983a. Vision Sciences Society, Sarasota, FL, USA. 5/2006.
- O6. Roche FM, Acab M, **Barsky A**, Chan T, Fulton DL, Gardy JL, Laird MR, Li YL, Lo R, Munzner T, Winsor GL, Wei R, Whiteside M, Babiuk L, Hancock REW, Hokamp K, Brinkman FSL. Poster: A bioinformatics platform facilitating robust cross-species comparisons of innate immunity microarray data. 2006 International Workshop on Systems Biology, July 17-19, National University of Ireland, Maynooth, Kildare, Ireland.
- O5. **Dan Archambault**, Tamara Munzner, and David Auber. Poster: TopoLayout: Graph Layout by Topological Features. InfoVis 05 Posters Track, 10/2005.
- O4. **Heidi Lam**, Tamara Munzner. Poster: MusicLand: Exploratory Browsing in Music Space. InfoVis 05 Posters Track, 10/2005.
- O3. Maylis Delest, Tamara Munzner, David Auber, and Jean-Philippe Domenger. InfoVis 2004 Contest Entry: Exploring InfoVis Publication History with Tulip. One of eight second place winners, 10/2004.
- O2. Lior Berry and Tamara Munzner. Poster: BinX: Dynamic Exploration of Time Series Datasets Across Aggregation Levels. InfoVis 04 Posters Track, 10/2004.
- O1. **James Slack**, Tamara Munzner, and Francois Guimbretiere. InfoVis 2003 Contest Entry: TreeJuxtaposer. Overall First place winner, 10/2003.

## 2. NON-REFEREED PUBLICATIONS

### (a) *Theses*

T1. Tamara Munzner. Interactive Visualization of Large Graphs and Networks. PhD thesis, Department of Computer Science, Stanford University, 2000.

### (b) *Other*

N10. Technical Report. A Guide to Visual Multi-Level Interface Design From Synthesis of Empirical Study Evidence. **Heidi Lam** and Tamara Munzner. UBC Computer Science Technical Report TR-2010-11, October 2010. [**10/11: new**]

N9. Technical Report. Reflections on QuestVis: A Visualization System for an Environmental Sustainability Model. Tamara Munzner, **Aaron Barsky**, and **Matt Williams**. UBC Computer Science Technical Report TR-2009-24, November 2009.

N8. **Stephen Ingram**, Tamara Munzner, and Marc Olano. GLUG: GPU Layout of Undirected Graphs. UBC Computer Science Technical Report TR-2007-23, October 2007.

N7. **Heidi Lam** and Tamara Munzner. A Study-Based Guide to Multiple Visual Information Resolution Interface Designs. UBC Computer Science Technical Report TR-2007-21, September 2007.

N6. **Stephen Ingram**, Tamara Munzner and Marc Olano. Glimmer: Multilevel MDS on the GPU. UBC Computer Science Technical Report TR-2007-15, June 2007.

N5. **Dan Archambault**, Tamara Munzner, and David Auber. TopoLayout: Graph Layout by Topological Features. Technical Report TR-2005-30, Department of Computer Science, University of British Columbia, 2005.

N4. Tamara Munzner, **Qiang Kong**, Raymond T. Ng, **Jordan Lee**, **Janek Klawe**, **Dragana Radulovic**, and Carson K. Leung. Visual Mining of Power Sets with Large Alphabets. Technical Report TR-2005-25, Department of Computer Science, University of British Columbia, 2005.

N3. **James Slack**, **Kristian Hildebrand**, and Tamara Munzner. Poster: Accordion Comparison of Evolutionary Trees and Genomic Sequences. Evolution 2004, Fort Collins CO, 6/04

N2. Nina Amenta, Stuart Levy, Tamara Munzner, and Mark Phillips. Geomview: a system for geometric visualization, *Proceedings of the 11th Annual ACM Symposium on Computational Geometry*, pages C12-C13, (communication), 1995.

N1. Mark Phillips, Silvio Levy, and Tamara Munzner. Geomview: An Interactive Geometry Viewer, *Notices of the American Mathematical Society*, 40(8), pages 985-988, (Computers and Mathematics Column), Oct 1993.

## 3. BOOKS

### (a) *Authored*

B2. **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) [**10/11: new**]

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)

(b) *Edited*

E2. Proceedings of the 2004 IEEE Symposium on Information Visualization (InfoVis), Tamara Munzner and Matt Ward, eds.

E1. Proceedings of the 2003 IEEE Symposium on Information Visualization (InfoVis), Tamara Munzner and Stephen North, eds.

(c) *Chapters*

D2. 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.

D1. 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.

**4. PATENTS****5. SPECIAL COPYRIGHTS**

*Outside In* was shown in excerpt at the SIGGRAPH 94 Electronic Theater and won prizes at Nicograph, Prix Ars Electronica, Prix Pixel Imagina, and the London Effects and Animation Festival. *The Shape of Space* was shown in excerpt at the SIGGRAPH 95 Electronic Theater and Prix Pixel Imagina.

S3. Tamara Munzner and Delle Maxwell. The Shape of Space [video, 11 minutes]. Producer: The Geometry Center. Key Curriculum Press, 2000.

S2. Nina Amenta and Tamara Munzner. Four-Polytopes and a Funeral (for my Conjecture) [video, 5 minutes]. 1995 Computational Geometry Symposium Video Proceedings.

S1. Silvio Levy, Delle Maxwell, and Tamara Munzner. Outside In [video, 22 minutes]. Producer: The Geometry Center. AK Peters, 1994.