



CARMAN NEUSTAEDTER, PHD

Webster, NY, USA, 14580

Phone: +1 (585) 755-5383

E-mail: carmster@gmail.com

Web: www.carmster.com

Citizenship: Canadian

Professional Interests

I am interested in performing research and teaching in the broad area of Human-Computer Interaction. I enjoy pursuing novel ideas by studying people through qualitative and quantitative means to prototype design ideas that will enhance and extend people's everyday routines. I also seek to disseminate this knowledge through publications and presentations.

Education

September 2003 - January 2007	PhD Computer Science , University of Calgary, Canada Specialization: Human-Computer Interaction Thesis Topic: Domestic Awareness and the Role of Family Calendars Supervisor: Dr. Saul Greenberg
September 2001 - May 2003	MSc Computer Science , University of Calgary, Canada Specialization: Human-Computer Interaction Thesis Topic: Privacy in Home Video Conferencing Supervisor: Dr. Saul Greenberg
September 1997 - June 2001	BSc Computer Science , University of Calgary, Canada Minor: Political Science

Research Experience

September 2008 - Present	Adjunct Professor , Dept. of Computer Science, University of Rochester, NY Department Chair: Dr. Henry Kautz
July 2007 - Present	Research Scientist , Kodak Research Labs, Rochester, NY Managers: Rodney Miller, Dr. Nancy Ferris Studying social culture, prototyping and evaluating technology.
August 2005 - April 2006	Research Contractor , Microsoft Research, Redmond, WA Manager: Dr. A.J. Bernheim Brush Design and deployment of a distributed digital family calendar.
May 2005 - August 2005	Research Intern , Microsoft Research, Redmond, WA Manager: Dr. A.J. Bernheim Brush Participatory design and evaluation of a digital family calendar.
May 2004 - August 2004	Research Intern , Microsoft Research, Redmond, WA Manager: Dr. Marc A. Smith Design and evaluation of email management software.

Research Experience Cont'd

June 2003
- September 2003

Research Intern, Microsoft Research, Redmond, WA
Manager: Dr. Marc A. Smith
Design and evaluation of conversation browsing software.

July 2002
- September 2002

Research Intern, Microsoft Research, Redmond, WA
Manager: Dr. Eric Horvitz
Mentor: Gina Venolia
Design and evaluation of a conversation visualization for email.

Teaching Experience

September 2008
- Present

Adjunct Professor, Dept. of Computer Science, University of Rochester, NY
Department Chair: Dr. Henry Kautz
Teaching an introductory course in human-computer interaction.

September 1999
- April 2004

Teaching Assistant, Dept of Computer Science, University of Calgary
Teaching tutorials and labs, material preparation, and marking.

Intro to Human-Computer Interaction

Task-centred system design, usability studies, information visualization.
Course Instructors: Dr. Sheelagh Carpendale, James Tam

Networking and Computer Communications

Communications and networking including the OSI model and TCP/IP model.
Course Instructor: Ivo Jirasek

Foundations of Software Engineering

Introduction to software development processes.
Course Instructors: Dr. Jorg Denzinger, Dr. Marina Gavrilova

Information Structures

Algorithm design and data structures, space and time complexity.
Course Instructors: Dr. Jeffrey Boyd, Dr. Marina Gavrilova

Introduction to Computers

Personal computer software and hardware.
Course Instructor: Dr. Marina Gavrilova

July 1999
- August 2001

Instructor, Faculty of Continuing Education, University of Calgary
Summer classes for high school students: lesson planning / teaching of programming and web design.

Relevant Professional Experience

August 1999
- August 2001

Network Systems Administrator, Davar Child Care Society, Calgary
Supervisor: Susan Elson
System maintenance and installation, network design and implementation of TCP/IP LAN, database and file system management

Publications: Book Chapters

[B2] Greenberg, S., **Neustaedter, C.**, and Elliot, K. (2009)
Awareness in the Home: The Nuances of Relationships, Domestic Coordination and Communication, Book Chapter in P. Markopoulos, B. De Ruyter, W. Mackay (ed.), *Awareness Systems: Advances in Theory, Methodology and Design*, Kluwer Academic Publishers, pp 1-21.

[B1] Boyle, M., **Neustaedter, C.** and Greenberg, S. (2009)
Privacy Factors in Video-based Media Spaces. In *Media Space: 20+ Years of Mediated Life*. (S. Harrison, Ed.), Springer, 32 pages.

Publications: Journal Articles (fully refereed)

[J3] Nunes, M., Greenberg, S. and **Neustaedter, C.** (2009)
Using Physical Memorabilia as Opportunities to Move into Collocated Digital Photo Sharing, *International Journal on Human Computer Studies, Special Issue on Collocated Photo Sharing Practices*.

[J2] **Neustaedter, C.**, Brush, A.J., and Greenberg, S., (2008)
"The Calendar is Crucial": Coordination and Awareness through the Family Calendar, In *ACM Transactions on Computer-Human Interaction (ToCHI)*, ACM Press.

[J1] **Neustaedter, C.**, Greenberg, S., and Boyle, M., (2006)
Blur Filtration Fails to Preserve Privacy for Home-Based Video Conferencing, In *ACM Transactions on Computer Human Interactions (ToCHI)*, March 2006.

Publications: Conference Papers (fully refereed)

* Given the rapid change in the field of computer science, conference publications are almost equivalent to journal articles because of their dissemination, rigour, competition, and quality.

[C21] Judge, T.K., **Neustaedter, C.**, and Kurtz, A.F. (2010)
The Family Window: The Design and Evaluation of a Domestic Media Space, In *Proceedings of the ACM Conference on Computer-Human Interaction (CHI 2010)*, ACM Press.
Acceptance Rate ~22%

[C20] Judge, T.K., and **Neustaedter, C.** (2010)
Sharing Conversation and Sharing Life: Video Conferencing in the Home, In *Proceedings of the ACM Conference on Computer-Human Interaction (CHI 2010)*, ACM Press.
Acceptance Rate ~22%

[C19] **Neustaedter, C.**, Tang, A., and Judge, T.K. (2010)
The Role of Community and Groupware in Geocache Creation and Maintenance, In *Proceedings of the ACM Conference on Computer-Human Interaction (CHI 2010)*, ACM Press.
Acceptance Rate ~22%

[C18] **Neustaedter, C.**, and Fedorovskaya, E. (2009)
Avatar Appearances and Representation of Self: Learning from Second Life, *Proceedings of AAAI's Fall Symposium Series on Biologically Inspired Cognitive Architectures (2009)*, IEEE.

[C17] **Neustaedter, C.**, and Fedorovskaya, E. (2009)
Improving the Flow in Digital Photo Ecosystems through Sketching and Wizard of Oz Techniques, *Proceedings of Graphics Interface 2009*, ACM Press..

[C16] **Neustaedter, C.**, and Fedorovskaya, E. (2009)
Presenting Identity in the Virtual World through Avatar Appearances, *Proceedings of Graphics Interface 2009*, ACM Press.

Publications: Conference Papers (fully refereed) Cont'd

- [C15] **Neustaedter, C.**, and Fedorovskaya, E. (2009)
Capturing and Sharing Memories in a Virtual World, *Proceedings of the ACM Conference on Computer-Human Interaction (2009)*, ACM Press.
Acceptance Rate ~25%
- [C14] Gallagher, A., **Neustaedter, C.**, Cao, L., Luo, J., and Chen, T. (2008)
Image Annotation using Personal Calendars as Context, *Proceedings of ACM Multimedia 2008*, ACM Press.
- [C13] Fedorovskaya, E., **Neustaedter, C.**, and Hao, W. (2008)
Image Harmony for Consumer Images, *Proceedings of the IEEE International Conference on Image Processing (ICIP 2008)*, IEEE.
- [C12] Nunes, M., Greenberg, S. and **Neustaedter, C.** (2008)
Sharing Digital Photographs in the Home through Physical Mementos, Souvenirs, and Keepsakes.
Proceedings of the Conference on Designing Interactive Systems (DIS 2008), ACM Press, Cape Town, South Africa.
- [C11] **Neustaedter, C.**, Brush, A.J., and Greenberg, S., (2007)
A Digital Family Calendar in the Home: Lessons from Field Trials of LINC, *Proceedings of Graphics Interface 2007 (GI 2007)*, May 28-30, Montreal, Quebec, Canada.
Best Student Paper Award
- [C10] Elliot, K., Watson, M., **Neustaedter, C.** and Greenberg, S. (2007)
Location-Dependent Information Appliances for the Home. *Proceedings of Graphics Interface 2007 (GI 2007)*, May 28-30, Montreal, Quebec, Canada.
- [C9] Elliot, K., **Neustaedter, C.** and Greenberg, S., (2007)
StickySpots: Using Location to Embed Technology in the Social Practices of the Home, In *Proceedings of the 1st International Conference on Tangible and Embedded Interaction (TEI 2007)* Feb 15-17, Baton Rouge, Louisiana, USA.
- [C8] **Neustaedter, C.**, Elliot, K., and Greenberg, S., (2006)
Interpersonal Awareness in the Domestic Realm, In *Proceedings of the Australian Conference on Computer-Human Interaction (OzCHI 2006)*.
Acceptance rate 51%
- [C7] **Neustaedter, C.**, and Brush, A.J., (2006)
“LINC-ing” the Family: The Participatory Design of an Inkable Family Calendar, In *Proceedings of the ACM Conference on Computer-Human Interaction (CHI 2006)*, April 24-27, Montreal, Quebec, ACM Press, pp. 141-150.
Best paper nominee (fewer than 5% of papers selected)
- [C6] Tang, A., **Neustaedter, C.**, and Greenberg, S., (2006)
Embodiments in Mixed Presence Groupware, In *Proceedings of the 20th British HCI Group Annual Conference (HCI 2006)*, Sept. 11-15, Queen Mary, University of London.
Acceptance rate 25%
- [C5] Elliot, K., **Neustaedter, C.**, and Greenberg, S., (2005)
Time, Ownership and Awareness: The Value of Contextual Locations in the Home, In *Proceedings of the Seventh International Conference on Ubiquitous Computing (Ubicomp 2005)*, Springer-Verlag.
Acceptance rate 9.6%

Publications: Conference Papers (fully refereed) Cont'd

[C4] **Neustaedter, C.**, Brush, A.J., Smith, M., and Fisher, D., (2005)
The Social Network and Relationship Finder: Social Sorting for Email Triage, In *Proceedings of the Conference on Email and Anti-Spam (CEAS 05)*, Stanford University.
Acceptance rate 37.7%

[C3] **Neustaedter, C.**, Brush, A.J., and Smith, M., (2005)
Beyond "From" and "Received": Exploring the Dynamics of Email Triage, In *Extended Abstracts of the Proceedings of the Conference on Computer-Human Interaction (CHI 2005)*, ACM Press.
Acceptance rate < 25%

[C2] **Neustaedter, C.** and Greenberg, S. (2003)
The Design of a Context-Aware Home Media Space for Balancing Privacy and Awareness, In *Proceedings of the Fifth International Conference on Ubiquitous Computing (UbiComp 2003)*.
Acceptance rate < 15%

[C1] Venolia, G., **Neustaedter, C.** (2002)
Understanding Sequence and Reply Relationships within Email Conversations: A Mixed-Model Visualization, In *Proceedings of the ACM Conference on Computer-Human Interaction (CHI 2003)*, ACM Press.
Acceptance rate 16%

Publications: Videos (fully refereed)

[V7] **Neustaedter, C.**, Judge, J., Kurtz, A., and Fedorovskaya, E. (2010)
The Family Window: Connecting Families over Distance with a Domestic Media Space, *Video Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW 2010)*, ACM Press.

[V6] Elliot, K., Watson, M., **Neustaedter, C.** and Greenberg, S. (2007)
Location-Dependent Domestic Information Appliances, In *Video Proceedings of the Fifth International Conference on Pervasive Computing 2007 (Pervasive 2007)*, May 13-16, Toronto, Ontario, Canada.

[V5] Elliot, K., **Neustaedter, C.**, and Greenberg, S., (2006)
Sticky Spots: A Location-Based Message System for the Home, In *Video Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2006)*.

[V4] **Neustaedter, C.**, Brush, A.J., and Greenberg, S., (2006)
LINC, An Inkable Digital Family Calendar: The Video, In *Video Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2006)*.

[V3] Tang, A., **Neustaedter, C.**, and Greenberg, S., (2004)
VideoArms: Supporting Remote Embodiment in Groupware, In *Video Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW 2004)*.

[V2] **Neustaedter, C.** and Greenberg, S. (2003)
The Design of a Context-Aware Home Media Space, In *Video Proceedings of the Fifth International Conference on Ubiquitous Computing (UbiComp 2003)*.

[V1] **Neustaedter, C.**, Greenberg, S. and Carpendale, S. (2002)
IMVis: Instant Messenger Visualization, In *Video Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2002)*.

Publications: Demonstrations

[D2] **Neustaedter, C.**, Brush, A.J., and Greenberg, S., (2006)
A Demo of Family Calendaring using LINC, *Extended Abstract and Demonstration at the ACM Conference on Computer Supported Cooperative Work (CSCW 2006)*.

[D1] Brush, A.J., and **Neustaedter, C.**, (2006)
LINC: A Ubiquitous Digital Family Calendar, *Extended Abstract and Demonstration at the Eighth International Conference on Ubiquitous Computing (UbiComp 2006)*.

Publications: Theses

[T2] **Neustaedter, C.** (2007)
Domestic Awareness and the Role of Family Calendars, PhD Dissertation, *Department of Computer Science, Calgary, Alberta, Canada*.

[T1] **Neustaedter, C.** (2003)
Balancing Privacy and Awareness in Home Media Spaces, MSc Thesis, *Department of Computer Science, Calgary, Alberta, Canada*.

Publications: Workshop Organization

[O3] Judge, T., **Neustaedter, C.**, Tang, A., and Harrison, S., (2010)
Bridging the Gap: Moving Between Contextual Analysis and Design, *Extended Proceedings of the ACM Conference on Computer-Human Interaction (2010)*, ACM Press.

[O2] **Neustaedter, C.**, Yarosh, S., and Brush, A.J., (2009)
Designing for Families, *Extended Proceedings of the ACM Conference on Computer-Human Interaction (2009)*, ACM Press.

[O1] **Neustaedter, C.**, Brush, A.J., and McDonald, D. (2008)
Designing for Families, *Extended Proceedings of the ACM Conference on Computer-Supported Cooperative Work (2008)*, ACM Press.

Publications: Workshop Papers

[W6] **Neustaedter, C.**, (2008)
Reflecting on Domestic Displays for Photo Viewing and Sharing, In *ACM CHI 2008 Workshop on Collocated Social Practices Surrounding Photos*. Organized by Sian Lindley, Abigail Durrant, Dave Kirk, and Alex Taylor.

[W5] Tang, A., and **Neustaedter, C.**, (2006)
Visualizing Egocentric Relationships in Instant Messaging, In *ACM CHI 2006 Workshop on Social Visualization, Exploring Text, Audio and Video Interactions*. Organized by Karahalios, K., and Viegas, F.

[W4] **Neustaedter, C.**, Elliot, K., and Greenberg, S., (2005)
Understanding Interpersonal Awareness in the Home, In *ACM CHI 2005 Workshop on Awareness Systems*.

[W3] **Neustaedter, C.** and Greenberg, S. (2003)
Balancing Privacy and Awareness in Home Media Spaces, In *Workshop on UbiComp Communities: Privacy as Boundary Negotiation, UbiComp 2003*.

[W2] Venolia, G., **Neustaedter, C.** (2002)
Understanding Sequence and Reply Relationships within Email Conversations: A Mixed-Model Visualization, In *ACM CSCW 2002 Workshop on Redesigning Email for the 21st Century*.

Publications: Workshop Papers Cont'd

[W1] **Neustaedter, C.** & Greenberg, S. (2002)
Supporting Coherence with a 3D Instant Messenger Visualization, In *ACM CHI 2002 Workshop on Discourse Architectures*.

Patent Applications Pending

[P6] **Neustaedter, C.**, Kurtz, A., Fedorovskaya, E., Judge, T., 2009
Time Shifted Video Communications

[P5] Fedorovskaya, E., and **Neustaedter, C.**, 2009
Method and Apparatus for Image Display Control According to Viewer Factors and Responses

[P4] **Neustaedter, C.**, Gobeyn, K., and Fedorovskaya, E., 2008
Configuring a Virtual World User Interface

[P3] Fisher, D., Brush, A.J., Jacobs, A., Smith, M., and **Neustaedter, C.**, 2006
Ordering Personal Information with Social Meta-data

[P2] Brush, A.J. and **Neustaedter, C.**, 2006
Mobile Access to Information Using Images

[P1] Brush, A.J. and **Neustaedter, C.**, 2006
User Interface for an Inkable Family Calendar

Presentations and Talks

December 2009	Gaming in the Real World Rochester Institute of Technology (RIT), Industrial Design and Systems Engineering Course, <i>Invited Guest Lecture</i> .
May 2009	Digital Photo Ecosystems ACM Conference on Graphics Interfaces (2009), <i>Conference Session Talk</i> .
May 2009	Avatar Appearances and Identity ACM Conference on Graphics Interfaces (2009), <i>Conference Session Talk</i> .
April 2009	Capturing and Sharing Memories in a Virtual World ACM Conference on Computer Human Interaction (2009), <i>Conference Session Talk</i> .
January 2009	Design for Real People with Real Needs Rochester Institute of Technology (RIT), Department of Industrial and System's Engineering's Human Factors course, <i>Invited Guest Lecture</i> .
April 2008	Reflecting on Domestic Displays ACM Conference on Computer Human Interaction (CHI 2008), Workshop on Collocated Photo Sharing
January 2008	Designing Technology for Everyday Life Rochester Institute of Technology (RIT), Usability Engineering Course, <i>Invited Guest Lecture</i> .

Presentations and Talks Cont'd

- December 2007 **Designing Technology for Everyday Life**
Human Factors and Ergonomics Society of Western NY, *Invited Talk.*
- October 2007 **Designing Technology for Everyday Life**
University of Rochester, Department of Computer Science Colloquium, *Invited Talk.*
- May 2007 **Field Trials of a Digital Family Calendar**
ACM Conference on Graphics and Interfaces (2007), *Conference Session Talk.*
- November 2006 **Interpersonal Awareness in the Domestic Realm**
Australian Conference on Computer Human Interaction (2006), *Conference Session Talk.*
- April 2006 **LINCing the Family: An Inkable Family Calendar**
ACM Conference on Computer Human Interaction (2006), *Conference Session Talk.*
- March 2006 **User-Centred Design for the Home**
Microsoft Research Invited Talk.
- July 2005 **The Social Network and Relationship Finder**
Conference on Email and Anti-Spam (CEAS 05), *Conference Session Talk.*
- April 2005 **Exploring Email Triage**
ACM Conference on Computer Human Interaction (CHI 2005), *Conference Session Short Talk.*
- April 2005 **Interpersonal Awareness in the Home**
ACM Conference on Computer Human Interaction (CHI 2005), *Workshop on Awareness Systems.*
- January 2005 **Interpersonal Awareness**
University of Calgary, Dept. Computer Science, *Graduate Student Seminar Series.*
- October 2003 **A Context-Aware Home Media Space**
Fifth International Conference on Ubiquitous Computing (UbiComp 2003), *Conference Session Talk.*
- October 2003 **Balancing Privacy and Awareness in a Home Media Space**
Fifth International Conference on Ubiquitous Computing (UbiComp 2003), *Workshop on Ubicomp Communities: Privacy as Boundary Negotiation.*
- November 2002 **Email Conversation Visualization**
ACM Conference on Computer Supported Cooperative Work (CSCW 2002), *Workshop on Redesigning Email for the 21st Century.*
- April 2002 **Supporting Coherence with an Instant Messenger Visualization**
ACM Conference on Computer Human Interaction (CHI 2002), *Workshop on Discourse Architectures.*

Selected Awards and Scholarships

2005	Alberta Ingenuity Scholarship for research and course excellence. Valued at \$22,000 CND per annum (without other major scholarship) plus \$1500 CND per annum research allowance, for a duration of five years.
2004	NSERC PGS-D Scholarship for research and course excellence. Natural Sciences and Engineering Research Council, Canada Valued at \$21,000 CND per annum for a duration of two years.
2004	ICORE Graduate Student Scholarship for research and course excellence. Informatics Circle of Research Excellence, Canada Valued at \$15,000 CND per annum for a duration of two years.
2005	Graduate Students' Association Distinction Award for community service. University of Calgary Valued at \$1000 CND.
2004	Dean's Research Excellence Award for research potential and excellence. University of Calgary Valued at \$3000 CND.
2003	TRLabs Research Scholarship for research excellence. Telecommunication Research Labs, Calgary, Canada Valued at \$12,000 CND per annum for a duration of 2 years.
2003	Dean's Entry Award for research potential. University of Calgary Valued at \$6000 CND.

Professional Activities: Program Committees

2009, 2010	ACM Conference on Computer-Human Interaction (CHI)
2008	ACM Conference on Designing Interactive Systems (DIS)

Professional Activities: Review Committees

2010	International Conference on Intelligent User Interfaces
2008, 2010	ACM Conference on Computer Supported Cooperative Work
2004-2010	International Conference on Ubiquitous Computing
2009	Pervasive and Mobile Computing Journal
2004-2008	ACM Conference on Computer-Human Interaction
2007	ACM Journal of Transactions on Information Systems
2007	International Conference on Pervasive Computing
2004, 2006	ACM Conference on Computer Supported Cooperative Work
2004-2005	ACM Journal of Transactions on Computer-Human Interaction
2005	Journal of HCI, Special Issue on Awareness Systems
2005	IEEE Workshop on Horizontal Interactive Human-Computer Systems
2005	International Conference on Pervasive Computing
2005	ACM Symposium on User Interface Software & Technology
2004-2005	Journal of Computer Supported Cooperative Work

Supervising and Mentoring

September 2009 - Present	PhD Supervisory Committee , Tejinder Judge, Virginia Tech
June 2009 - August 2009	Internship Mentor , Tejinder Judge, Kodak Research Labs
January 2009 -May 2009	Independent Study Advisor , Marin Kobin, University of Rochester
January 2009 -May 2009	Independent Study Advisor , Robin Miller, University of Rochester
June 2008 - September 2008	Internship Mentor , Sara Giroto, Kodak Research Labs
2007	MSc Mentor , Michael Nunes, University of Calgary
2003-2006	MSc Mentor , Kathryn Elliot, University of Calgary
2005-2006	MSc Mentor , Anthony Tang, University of Calgary

Organizational Memberships

July 2008 - Present	Special Interest Group on Computer-Human Interaction (SIGCHI) Association for Computing Machinery (ACM)
July 2007 - Present	Association for Computing Machinery (ACM)
May 2004 - April 2005	Computer Science Graduate Society , President University of Calgary
June 2003 - April 2004	Computer Science Graduate Society , VP Academic University of Calgary
September 2003 - April 2004	Graduate Students' Association , Academic Standing Committee University of Calgary
September 1997 - September 1998	Residence Computing Support University of Calgary

Skills and Hobbies

<i>Research:</i>	Leadership, independent or team work, public speaking, usability studies, controlled experiments, field studies, interviewing, surveys, contextual inquiry, qualitative and quantitative data analysis, prototyping (low, medium, and high-fidelity), interaction design
<i>Technical:</i>	Computer vision, software development in C#, C/C++, Java, SQL Server, ASP.NET, Perl, Visual Basic, HTML
<i>Languages:</i>	English (native speaker), French (basic proficiency)
<i>Fun Stuff:</i>	Volleyball, karate, hockey, photography, team puzzle-solving challenges

References

Dr. Saul Greenberg, Full Professor
Department of Computer Science
University of Calgary
2500 University Drive NW
Calgary, Alberta, Canada
Phone: +1 403-220-6087
saul.greenberg@ucalgary.ca

Dr. A.J. Brush, Manager of Everyday Technology
Microsoft Research
One Microsoft Way
Redmond, WA, USA
Phone: +1 425-722-7299
ajbrush@microsoft.com

Dr. Henry Kautz, Professor and Chair
Department of Computer Science
University of Rochester
Box 270226
Rochester NY, 14627
kautz@cs.rochester.edu