

# Daniel Vogel, curriculum vitae

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## education

**PhD Computer Science**, *University of Toronto*, Feb 2005 – Mar 2010 (DEFENDED)  
Human Computer Interaction, “Direct Pen Input and Occlusion”

**MSc Computer Science**, *University of Toronto*, Sep 2003 – Jan 2005  
Human Computer Interaction, “Interactive Public Ambient Displays”

**BFA Intermedia**, *Emily Carr University of Art and Design*, Sep 1993 – Apr 1996  
specializing in 3-D computer animation, interactive media, installation art, and printmaking

**BA Computer Science & Visual Arts**, *University of Western Ontario*, Sep 1989 – Apr 1993  
(Dean’s Honour List)

## publications

### conference proceedings

Daniel Vogel and Ravin Balakrishnan (2010 - Forthcoming). Occlusion-Aware Interfaces. *Proceedings of the international conference on Human factors in computing systems (CHI 2010)*.

★ BEST PAPER AWARD (ACC RATE 296 / 1346 = 22%)

Daniel Vogel, Matthew Cudmore, Géry Casiez, Ravin Balakrishnan, and Liam Keliher (2009). Hand Occlusion with Tablet-sized Direct Pen Input. *Proceedings of the international conference on Human factors in computing systems (CHI 2009)*. ACM. p. 557-566.

(ACC RATE 277 / 1130 = 22%)

Géry Casiez, Daniel Vogel. (2008). The Effect of Spring Stiffness and Control Gain with an Elastic Rate Control Pointing Device. *Proceedings of the international conference on Human factors in computing systems (CHI 2008)*. ACM. p. 1709-1718.

★ BEST PAPER NOMINEE AWARD (ACC RATE 157 / 714 = 22%)

Ian Vollick, Daniel Vogel, Maneesh Agrawala, and Aaron Hertzmann. (2007). Specifying Label Layout Styles by Example. *Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2007)*. ACM. p. 221-230.

(ACC. RATE 24 / 129 = 19%)

Géry Casiez, Daniel Vogel, Qing Pan, and Christophe Chaillou. (2007). RubberEdge: Reducing Clutching by Combining Position and Rate Control with Elastic Feedback. *Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2007)*. p. 129-138.

(ACC RATE 24 / 129 = 19%)

Daniel Vogel and Patrick Baudisch. (2007). Shift: A Technique for Operating Pen-Based Interfaces Using Touch. *Proceedings of the international conference on Human factors in computing systems (CHI 2007)*. ACM. p. 657-666.

★ BEST PAPER AWARD (ACC RATE 142 / 571 = 25%)

### *publications: conference proceedings (continued)*

Clifton Forlines, **Daniel Vogel**, Ravin Balakrishnan. (2006). HybridPointing: Fluid Switching Between Absolute and Relative Pointing with a Direct Input Device. *Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2006)*. p. 211-220.

(ACC RATE 40 / 177 = 23%)

**Daniel Vogel**, Ravin Balakrishnan. (2005). Distant freehand pointing and clicking on very large high resolution displays. *Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2005)*. p. 33-42.

(ACC RATE 31 / 159 = 19%)

**Daniel Vogel**, Ravin Balakrishnan. (2004). Interactive public ambient displays: transitioning from implicit to explicit, public to personal, interaction with multiple users. *Proceedings of ACM Symposium on User Interface Software and Technology (UIST 2004)*. p. 137-146.

(ACC RATE 36 / 170 = 21%)

### journal articles

**Daniel Vogel** and Ravin Balakrishnan (Forthcoming). Direct Pen Interaction with a Conventional Graphical User Interface. *Human-Computer Interaction*.

Géry Casiez, **Daniel Vogel**, Ravin Balakrishnan, and Andy Cockburn. (2008). The Impact of Control-Display Gain on User Performance in Pointing Tasks. *Human-Computer Interaction*. Vol. 23, Issue 3 July 2008, p. 215 – 250.

## appointments and awards

**Adjunct Professor**, *Mount Allison University*, 2008 - current  
in the Department of Mathematics and Computer Science

**Board of Directors**, *Struts Gallery – Artist Run Centre*, 2008 - current

**MAFA Travel Bursary**, *Mount Allison University*, 2010  
\$1,500 bursary for conference travel

**NRC Industrial Research Assistance Program (IRAP)**, 2008  
\$4,300 grant for research consulting services: "HCI Research and Novel Input Technologies"

**NSERC Canada Graduate Scholarship (CGSD3)**, 2005 - 2008  
\$105,000 over 36 months based on research potential and academic merit

**NSERC Postgraduate Scholarship, Masters (PGSM)**, 2004  
\$17,300 scholarship based on academic merit and research potential

**Ontario Graduate Scholarship** (*declined*), 2004, 2005  
\$15,000 scholarship based on academic merit

**Wolfond Fellowship**, 2003  
\$7,900 scholarship based on academic merit

**Senior Student Artist Grant**, *British Columbia Cultural Services*, 1995  
\$2,250 juried award for senior art students

## teaching

**Course Instructor**, *Mount Allison University*, Winter 2010

3<sup>rd</sup> year computer science course in computer graphics

**Course Instructor**, *University of Toronto*, Fall 2006

3<sup>rd</sup> year computer science course in user-centred interaction design and usability

**Teaching Assistant**, *University of Toronto*, Spring 2006, Spring 2004, Fall 2003

prepared and delivered weekly lectures for 3<sup>rd</sup> year course in user-centred interaction and usability

## student supervision

**Velian Pandeliev**, *University of Toronto*, Summer 2010

self-directed graduate reading course: "Requirements and Design of Online Software"  
(with Dr. Ron Baecker)

**Matthew Cudmore**, *Mount Allison University*, Summer 2008, 2009

research project: "Direct Pen Input and Occlusion"

**Chris Macleod**, *Mount Allison University*, Summer 2009

research project: "Inexpensive Techniques for Interacting with a Large Public Display"

## presentations and invited talks

### Invited Speaker

*Atlantic Provinces Art Gallery Association, PEI*, "Keynote: Beyond the Keyboard", May 2008

*Mount Allison University*, "Direct Input Selection on Very Large and Very Small Displays", Mar 2007

*University of Lille, France*, "Large Display Interaction", Oct 2006

*Mount Allison University*, "Interactive Public Ambient Displays", Feb 2005

### Conference Presentations

CHI 2009, Boston; CHI 2007, San Jose

UIST 2006, Montreux; UIST 2005, Seattle; UIST 2004, Santa Fe

### Guest Lecturer

*Mount Allison University*, "Human-Computer Interaction", Mar 2010, Nov 2009, Nov 2008

*Schulich School of Business, York University*, "Internet Services Web Development", Fall 2000

## residences and internships

**Visiting Researcher**, *Université Lille 1, FRANCE*, (upcoming: May - Jun 2010)  
Department of Computer Science with Géry Casiez

**Summer Research Internships, Microsoft Research**, 2006, 2004  
"Touch Screen Interaction" with Patrick Baudisch, Jun – Aug 2006  
"Automated Document Layout through Optimization" with Maneesh Agrawala, Jun – Sep 2004

**Artist Residency, Banff Centre for the Arts**, Jul – Aug 1998  
3 week residency in digital silkscreen printmaking; presented at the "Interactive Screen" new media workshop and the "Avatar, Avatar" VRML weekend summit

## employment and consulting

**Freelance Consultant**, 2002 – current  
Information Architecture, Graphic Design, Usability Recommendations (*freelance*)  
working with clients such as Sapient, The Royal Bank Financial Group, and Bell Sympatico/MSN

**Organic**, *Toronto*, May - Oct 2002  
Senior Information Architect (*contract*)  
sales, design, production, and presentations: clients include Sony, Honda, and Bell Mobility

**Cyberplex**, *Toronto*, Sep 1999 – May 2002  
Senior Information Architect and Department Manager  
created new department, process and techniques for information architecture, trained and led team of new information architects; clients include Starbucks, Thomson Learning, and 3M

**Bratch Innovation**, *Toronto*, Jan 1999 – Aug 1999  
Creative Director

**Referentia**, *Honolulu*, 1998 - 2000  
Computer Animator (*freelance*)

**Computer Visualizations**, *Honolulu*, Oct 1996 - Feb 1997, May 1994 - Aug 1994  
Computer Animator

## press

**ERCIM News**, "RubberEdge", April 2008

**MIT Technology Review**, "Precision Pointing with Fat Fingers", May 2007

**ComputerWorld**, "Microsoft Research project tackles mobile touch-screen problems", May 2007

**CBC Radio Ideas**, "By Design: The Politics of Everyday Objects", 2006 (Interview)

**Mix Magazine**, "Artist Run Portfolio: Fax Sux", Sep 1995,

**MuchMusic Television**, "Fax: Hydromedia", Apr 1995, "Speed Kills", Apr 1995

## selected group art exhibitions

Travelogue

*Artspeak Gallery, Vancouver, 1997*

Las Vegas

*Havana, Vancouver, 1997*

Suburbia

*The Helen Pitt Gallery, Vancouver, 1997*

3 Sections, 1 Body

*CACV, Vancouver, 1997*

Exact Change

*The Helen Pitt Gallery, Vancouver, 1996*

Anniversary of the Comic / *juried*

*Wedgimounte Gallery, Belgium, 1996*

Beyond Borders / *juried*

*Viking Union Gallery, Bellingham, WA,  
1996*

Straight White Male

*Emily Carr Institute, Vancouver, 1996*

Canadaustralia Exchange / *juried*

*Sydney, Australia; Toronto; Vancouver,  
1996*

Images And Objects / *juried*

*Kamloops, British Columbia, 1995*

Blue Plate Special

*The Flat, Vancouver, 1995*

Hydromedia

*Flux Studios, Vancouver, 1995*

Speed Kills

*The Flat, Vancouver, 1995*

13th Annual Vancouver Exhibition / *juried*

*CACV, Vancouver, 1995*

Toys 'R' Art

*The Flat, Vancouver, 1994*