

Daniel Vogel, curriculum vitae

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Banting Postdoctoral Fellow, University of Waterloo

Cheriton School of Computer Science with Bill Cowan, Craig Kaplan, and Ed Lank

education

PhD Computer Science, University of Toronto, 2010

Human Computer Interaction, "Direct Pen Input and Hand Occlusion"
advisor: Ravin Balakrishnan

★ BILL BUXTON DISSERTATION AWARD

MSc Computer Science, University of Toronto, 2005

Human Computer Interaction, "Interactive Public Ambient Displays"
advisor: Ravin Balakrishnan

BFA Intermedia, Emily Carr University of Art and Design, 1996

specializing in 3-D computer animation, interactive media, installation art, and printmaking

BA Computer Science and Visual Arts, University of Western Ontario, 1993

★ DEAN'S HONOUR LIST

publications

full conference papers

- C11 Daniel Vogel, Géry Casiez. (2011). Conté: Multimodal Input Inspired by an Artist's Crayon. *Proc. of UIST'11, the 24th ACM Symposium on User Interface Software and Technology*. p. 357-366.
(ACCEPTANCE RATE 67 / 265 = 25%)
- C10 Radu-Daniel Vatavu, Daniel Vogel, Géry Casiez, Laurent Grisoni. (2011). Estimating the Perceived Difficulty of Pen Gestures. *Proc. of INTERACT'11, the 13th IFIP TC13 Conference on Human-Computer Interaction*. Springer. p. 89-106.
(ACCEPTANCE RATE 111 / 402 = 27%)
- C9 Daniel Vogel, Ravin Balakrishnan. (2010). Occlusion-Aware Interfaces. *Proc. of CHI'10, the 28th Conference on Human Factors in Computing Systems*. p. 263-272.
★ BEST PAPER AWARD (ACCEPTANCE RATE 296 / 1346 = 22%)
- C8 Daniel Vogel, Matthew Cudmore, Géry Casiez, Ravin Balakrishnan, Liam Keliher. (2009). Hand Occlusion with Tablet-sized Direct Pen Input. *Proc. of CHI'09, the 27th Conference on Human Factors in Computing Systems*. p. 557-566.
(ACCEPTANCE RATE 277 / 1130 = 22%)
- C7 Géry Casiez, Daniel Vogel. (2008). The Effect of Spring Stiffness and Control Gain with an Elastic Rate Control Pointing Device. *Proc. of CHI'08, the 27th Conference on Human Factors in Computing Systems*. p. 1709-1718.
★ BEST PAPER NOMINEE AWARD (ACCEPTANCE RATE 157 / 714 = 22%)

(full conference papers continued)

- C6 Ian Vollick, Daniel Vogel, Maneesh Agrawala, Aaron Hertzmann. (2007). Specifying Label Layout Styles by Example. *Proc. of UIST'07, the 20th ACM Symposium on User Interface Software and Technology*. p. 221-230.
(ACCEPTANCE RATE 24 / 129 = 19%)
- C5 Géry Casiez, Daniel Vogel, Qing Pan, Christophe Chaillou. (2007). RubberEdge: Reducing Clutching by Combining Position and Rate Control with Elastic Feedback. *Proc. of UIST'07, the 20th ACM Symposium on User Interface Software and Technology*. p. 129-138.
(ACCEPTANCE RATE 24 / 129 = 19%)
- C4 Daniel Vogel, Patrick Baudisch. (2007). Shift: A Technique for Operating Pen-Based Interfaces Using Touch. *Proc. of CHI'07, the 26th Conference on Human Factors in Computing Systems*. p. 657-666.
★ BEST PAPER AWARD (ACCEPTANCE RATE 142 / 571 = 25%)
- C3 Clifton Forlines, Daniel Vogel, Ravin Balakrishnan. (2006). HybridPointing: Fluid Switching Between Absolute and Relative Pointing with a Direct Input Device. *Proc. of UIST'06, the 19th ACM Symposium on User Interface Software and Technology*. p. 211-220.
(ACCEPTANCE RATE 40 / 177 = 23%)
- C2 Daniel Vogel, Ravin Balakrishnan. (2005). Distant freehand pointing and clicking on very large high resolution displays. *Proc. of UIST'05, the 18th ACM Symposium on User Interface Software and Technology*. p. 33-42.
(ACCEPTANCE RATE 31 / 159 = 19%)
- C1 Daniel Vogel, Ravin Balakrishnan. (2004). Interactive public ambient displays: transitioning from implicit to explicit, public to personal, interaction with multiple users. *Proc. of UIST'04, the 17th ACM Symposium on User Interface Software and Technology*. p. 137-146.
(ACCEPTANCE RATE 36 / 170 = 21%)

journal articles

- J2 Daniel Vogel, Ravin Balakrishnan. (2010). Direct Pen Interaction with a Conventional Graphical User Interface. *Human-Computer Interaction*. Taylor & Francis, 25(4), 324-388.
(JOURNAL 5-YEAR IMPACT FACTOR 4.71)
- J1 Géry Casiez, Daniel Vogel, Ravin Balakrishnan, Andy Cockburn. (2008). The Impact of Control-Display Gain on User Performance in Pointing Tasks. *Human-Computer Interaction*. Taylor & Francis. 23(3), p. 215-250.
★ TOP TEN CITED ARTICLE FOR 2007 - 2010

patents

- P3 Géry Casiez, Daniel Vogel. (2011). Multitouch Human Interface System and Device for Graphical Input, and Method for Processing Image in Such a System. Submission: 1000126888, October 14, 2011.
- P2 Patrick Baudisch, Ken Hinckley, Raman Sarin, Edward Cutrell, Andy Wilson, Daniel Vogel. (2010). U.S. Patent: 7692629 - Operating touch screen interfaces. April 6, 2010.
- P1 Géry Casiez, Daniel Vogel. (2007). Isotonic / elastic touch-sensitive input device. Filing: 07 370 020.5, October 05, 2007.

awards

Banting Postdoctoral Fellowship, 2011 - 2013

\$140,000 over 24 months based on research potential

Bill Buxton Dissertation Award, Vancouver Foundation, 2011

best Canadian doctoral dissertation in Human-Computer Interaction (co-recipient)

NSERC Postdoctoral Fellowship, 2011 (*declined*)

\$80,000 over 24 months based on research potential

Best Paper Award, ACM CHI, 2010

for c9 Occlusion-Aware Interfaces (with Ravin Balakrishnan)

Travel Bursary, Mount Allison University, 2010

\$1,500 bursary for conference travel to Computation Aesthetics 2010

Best Paper Nominee Award, ACM CHI, 2008

for c7 The Effect of Spring Stiffness (with Géry Casiez)

NRC Industrial Research Assistance Program (IRAP), 2008

\$4,300 grant for research consulting: "HCI Research and Novel Input Technologies"

Best Paper Award, ACM CHI, 2007

for c4 Shift (with Patrick Baudisch)

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 research potential and academic merit

Ontario Graduate Scholarship, 2004 (*declined*), 2005 (*declined*)

\$15,000 scholarship based on academic merit

University of Toronto 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

appointments

Steering Committee, CultureWorks, Mount Allison University, 2010 – *current*

SSHRC Aid to Small Universities Research Program (ASUP),

Adjunct Professor, Mount Allison University, 2008 – *current*

Department of Mathematics and Computer Science

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

president since 2011

teaching

Course Instructor, University of Waterloo, *Fall 2011*
graduate special topics course on "Aesthetics and Computer Graphics"

Course Instructor, Mount Allison University, *Winter 2010*
3rd year computer science course in computer graphics

Course Supervisor, University of Toronto, *Summer 2010*
self-directed project course in requirements and design for online software
weekly video conference meetings with two students

Course Instructor, University of Toronto, *Fall 2006*
3rd year computer science course in user-centred interaction design and usability

Teaching Assistant, University of Toronto, *Spring 2006, Spring 2004, Fall 2003*
3rd year computer science course in user-centred interaction design and usability
prepared and delivered weekly lectures, assignment marking

presentations and invited talks

Invited Speaker

University of Waterloo, "Interacting without a Mouse", *Oct 2010*
Baked Ham Speaker Series, Sackville, NB, "Computer Science", *Aug 2010*
Université Paris-Sud, France, "Hand Occlusion and Direct Input", *Jun 2010*
EuraTechnologies, Lille, France, "Hand Occlusion and Direct Input", *Jun 2010*
Atlantic Provinces Art Gallery Assn., PEI, "Keynote: Beyond the Keyboard", *May 2008*
Mount Allison University, NB, "Direct Input on Very Large and Small Displays", *Mar 2007*
Université de Lille, France, "Large Display Interaction", *Oct 2006*
Mount Allison University, NB, "Interactive Public Ambient Displays", *Feb 2005*

Conference Presentations

UIST 2011 Santa Barbara; CHI 2010 Atlanta; 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 Web Development", *Fall 2000*

student supervision

Greg Legere, Mount Allison University, *Summer 2011*
research project: "Human-in-the-loop Classification of Diatoms"
co-supervised with Andrew Irwin

Chris MacLeod, Mount Allison University, *Summer 2009*
research project: "Sensing Techniques for Interacting with a Large Public Display"
co-supervised with Liam Keliher

Matthew Cudmore, Mount Allison University, *Summer 2008, 2009*
research project: "Direct Pen Input and Occlusion"
co-supervised with Liam Keliher

service

Program Committee

ACM Symposium on User Interface Software and Technology, 2012

ACM Interactive Tabletops and Surfaces, 2011

Reviewer

CHI, UIST, *ToCHI Journal*, *HCI Journal*, *Intl. Journal of HCI*, Graphics Interface, UbiComp, SIGGRAPH, INTERACT, 3DUI

residences and internships

Visiting Researcher, INRIA / Université de Lille, France, *May – Jun 2010*

“Hybrid device input for multi-touch tables” with Géry Casiez

Summer Research Internships, Microsoft Research, Redmond

“Touch Screen Interaction” with Patrick Baudisch, *Jun – Aug 2006*

“Automated Document Layout” with Maneesh Agrawala, *Jun – Sep 2004*

Artist Residency, Banff Centre for the Arts, *Jul – Aug 1998*

studio residency in digital silkscreen printmaking

employment and consulting

Freelance Consultant, 2002 – current

Information Architecture, Graphic Design, Usability Recommendations

clients include 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, processes and techniques for information architecture, trained and led team; clients include Starbucks, Thomson Learning, and 3M

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

Creative Director

Referentia, Honolulu, 1998 – 2000

3-D Computer Animator (freelance)

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

3-D Computer Animator

press

MIT Technology Review, invited commentary on “The Invisible iPhone”, *May 2011*

CBC Radio, Information Morning, “Computer Art Show”, *Nov 2010*

ERCIM News, “RubberEdge”, *Apr 2008*

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

ComputerWorld, “Microsoft Research tackles mobile touch-screen problems”, *May 2007*

CBC Radio Ideas, “By Design: The Politics of Everyday Objects”, *Jun 2006*

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)

Wedgemount Gallery, Belgium, *1996*

Beyond Borders (juried)

Viking Union, Bellingham, WA, *1996*

Straight White Male

Emily Carr Institute, Vancouver, *1996*

Canadaustralia Exchange (juried)

Sydney, 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*

portfolio

research and artwork portfolio available

<http://www.nonsequitoria.com>