

Andy Cockburn
B.Sc.(Hons) Ph.D.

Curriculum Vitae

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Date of birth 23rd July 1966

Date July 12, 2016

Brief Summary

International research reputation

- Over one hundred and fifty publications in international journals and conferences.
- Elected to the CHI Academy (2015), which is an honorary group of individuals who have made substantial contributions to the field of human-computer interaction.
- Recipient of the 2009 Chris Wallace award for the outstanding research contribution to Computer Science (2005-2007) in Australasia.
- Deputy Chair of the national panel for assessing Computer Science and Mathematics research quality (MIST PBRF panel, 2016-2019).
- Papers co-chair for the ACM CHI conference, 2014 and 2015. Subcommittee chair for CHI 2011.
- Editorial Board Member for: ACM Transactions on Computer-Human Interaction (2012-); Human-Computer Interaction Journal (2015-); International Journal of Human-Computer Studies (2004-2013); Interacting with Computers (2003-2013).
- Best paper awards at CHI 2011, CHI 2012 and CHI2013 (awarded to the top 1% of submissions) and ten Honourable Mention awards (top 5%) at ACM CHI.
- H-index impact factor of 41 (Google Scholar).

Excellent educator and public speaker

- Long track record of outstanding student evaluations.
- Nominated for the New Zealand National Tertiary Teaching Award, 2010. Recipient of a University of Canterbury Teaching Award (2004) and many nominations for student-elected 'lecturer of the year' award.

Experienced expert witness and consultant

- Testifying expert on behalf of Apple in Apple versus Samsung (Northern District of California, Judge Koh). 2014. The jury determined that both Apple patents on which I gave evidence were valid and infringed by Samsung (one willfully).
- 28 hours of testimony during trial and 16 hours of concurrent evidence 'hot-tub' (Federal Court of Australia, Justice Bennett and Yates). 2011-2013. Settled prior to verdict.
- 10 hours of deposition hearings (Northern District of California).
- Science advisor for Logitech Inc. 2006-2011.

Education

Degree PhD (June 1993)
Discipline Computer Science — Computer Supported Cooperative Work
Location University of Stirling, Scotland
Thesis Title Groupware Design: Principles, Prototypes, and Systems

Degree BSc(Hons) (July 1988)
Discipline Computer Science
Location University of York, England

Employment History

Position Professor (promoted through lecturer, senior lecturer, associate professor)
Location University of Canterbury
Christchurch
New Zealand
Period June 1993 — current

Major Consulting Roles

Role Expert witness for Weil, Gotshal & Manges, counsel for Apple Inc.
Case Motorola Mobility Inc. versus Apple Inc. Southern District of Florida.
10-CV-23580-RNS-TEB and 12-CV-20271-RNS-TEB
Dates October 2013 – March 2014 (case dismissed by the parties)

Role Expert witness for Gibson, Dunn & Crutcher, counsel for Apple Inc.
Case Apple Inc. versus Samsung Electronics Co. Ltd. Northern District of California.
12-CV-0630-LHK
Dates June 2013 – June 2014

Role Expert witness for Herbert Smith Freehills, counsel for Apple Inc.
Case Apple Inc. versus Samsung Electronics Co. Ltd. Federal Court of Australia.
NSD 1243 of 2011
Dates September 2011 – May 2013

Role Science Advisor for Logitech Inc.
Dates May 2005 – 2011

Research Student Supervision

PhD candidates

Student	Years	Project/Thesis Title
Joshua Leung	2013–	Improving File Navigation User Interfaces
Philip Quinn	2012–2016	Economic Behaviour & Psychological Biases in HumanComputer Interaction
Thammathip Pium-somboon	2011–2015	Adaptive and Multimodal Interfaces for Collaborative Augmented Reality
Joey Scarr	2011–2014	Improving Interaction with Spatial User Interfaces
Stephen Fitchett	2010–2013	Understanding and Improving Personal File Retrieval
Susanne Tak	2008–2011	Improving Interfaces for Window/Task Switching
Jason Alexander	2006–2009	Improving Interfaces for Document Navigation
Joerg Hauber	2004–2008	Understanding Remote Collaboration in Video Collaborative Virtual Environments
Julian Looser	2003–2007	AR Magic Lenses: Addressing the Challenge of Focus and Context in Augmented Reality
Volkert Buchmann (A. sup.)	2004–2008	Haptic Feedback in Augmented Reality
Carl Cook (A. sup.)	2002–2006	Collaborative Software Engineering
Tim Wright	2000–2004	Collaborative and Multiple-Notation Programming Environments for Children
Michael Jason-Smith	2000–2006	User Interfaces for Temporal Awareness

M.Sc. candidates

Ben McDonald	2010–2011	Multiuser interaction with large public displays
Dominic Winkler	2009–2011	Interaction Techniques for Cross Context Activities
Taher Amer	2005–2006	Evaluating SwiftPoint
Trond Nilsen	2004–2006	Hybrid Interfaces in Augmented Reality
Joshua Savage	2003–2004	The Calibration and Evaluation of Speed-Dependent Automatic Zooming Interfaces
Ben Schmidt	2001–2002	A Study of Bimanual Interaction
Elizabeth Ng (A. sup.)	1997–1998	Pen-based music input
Aaron Tay	1994–5	End-User Tailorability in Workflow Design

Honours candidates and Honours-level interns

Joel Harrison	2012	Improving Command Selection
Joshua Leung	2012	Improving File Access
J. Delamarche (Paris-Sud)	2010	Multiple Trajectory Pointing Methods
Joey Scarr	2010	Improving Expertise Development in User Interfaces
Stephen Fitchett	2009	Improved Mobile Scrolling Interfaces
Philip Quinn	2007	Improving Command Interfaces
Keith Humm	2007	Improving Interfaces for Task Switching
Jason Alexander	2005	Improving Document Navigation with Space-Filling Thumbnails
Philip Brock	2005	An Investigation of Target Acquisition with Visually Expanding Targets in Constant Motor-Space
David Mitchell	2003	Evaluating Focus+Context Screens
Andrew Wallace	2003	Calibrating Speed-Dependent Automatic Zooming
Andrew Barrett	2002	Implementing RSVP as an Image Browser
Julian Looser	2002	3D Games as Motivation in Fitts' Law Experiments
Joshua Savage	2002	Implementing and Evaluating Speed-Coupled Scrolling
Amal Siresena	2002	Mobile Text Entry
Michael Moyle	2001	An Evaluation of Simple Gesture Based Controls
Lee Butts	2001	Mobile Phone Text Entry
Eddie Edwards	2001	Towards Scalable Interfaces Using Spatial Cues
Gene Thomas	1997	Smart Desktop
Olof Eilert	1997	User Interfaces for Object Oriented Literate Programming
Philip Weir	1996	Distortion Oriented Workspace Awareness
Carey Evans	1996	Assisting World Wide Web Navigation
Justin Macfarlane	1995	Mawd: A Collaborative Analysis Tool
Carl Cerecke	1995	TRAIL: An Email Based CSCW Toolkit
Andrew Bryant	1995	Leogo: An Equal Opportunity Programming Environment
Ian Bosely	1994	SPI: A Social Presence Indicator

Postgraduate Thesis Examinations

Craig Sutherland	PhD	Examiner	University of Auckland	2016
David Thompson	PhD	Chair	University of Canterbury	2016
Daniel Bradley	PhD	Examiner	University of Queensland	2016
David Altimera	PhD	Chair	University of Canterbury	2015
Jakub Zlotowsky	PhD	Chair	University of Canterbury	2015
Thammathip Piumsomboon	PhD	Supervisor	University of Canterbury	2015
Robert Schattschnieder	PhD	Chair	University of Canterbury	2014
Hazel Bradshaw	PhD	Chair	University of Canterbury	2014
Amur Al Manji	PhD	Examiner	University of Auckland	2014
Amir Shareghi Najar	PhD	Chair	University of Canterbury	2014
Joey Scarr	PhD	Supervisor	University of Canterbury	2014
Stephen Fitchett	PhD	Supervisor	University of Canterbury	2014
Amali Weeseringhe	PhD	Chair	University of Canterbury	2012
Sayan Ray	PhD	Chair	University of Canterbury	2012
Christina Dicke	PhD	Chair	University of Canterbury	2012
Minkyung Lee	PhD	Chair	University of Canterbury	2010
Jason Alexander	PhD	Supervisor	University of Canterbury	2009
Leah Findlater	PhD	Examiner	University of British Columbia	2009
Judy Bowen	PhD	Examiner	University of Waikato	2008
Joerg Hauber	PhD	Supervisor	University of Canterbury	2008
Julian Looser	PhD	Supervisor	University of Canterbury	2008
Michael JasonSmith	PhD	Supervisor	University of Canterbury	2006
Tim Wright	PhD	Supervisor	University of Canterbury	2005
Beryl Plimmer	PhD	Examiner	University of Waikato	2003
Gorden Paynter	PhD	Examiner	University of Waikato	2000
Gitesh K Raikundalia	PhD	Examiner	Bond University	1997
Ramon Craig Standing	PhD	Examiner	University of Western Australia	1997
Ying Leung	PhD	Examiner	Massey University	1995
Taher Amer	Masters	Supervisor	University of Canterbury	2006
Trond Nilsen	Masters	Supervisor	University of Canterbury	2006
Akhil Mehra	Masters	Examiner	University of Auckland	2005
Aparna Krishnan	Masters	Examiner	University of Waikato	2003
Shaun Kaasten	Masters	Examiner	University of Calgary	2001
Boyd Ludlow	Masters	Examiner	University of Waikato	1999
Donald Cox	Masters	Examiner	University of Calgary	1998
Wallace Chigona	Masters	Examiner	Waikato University	1997
Simon Gianoutsos	Masters	Examiner	Waikato University	1997
Jing Deng	Masters	Examiner	Waikato University	1996 and 1997
Aaron Tay	Masters	Examiner	University of Canterbury	1996

Student Evaluations

Student evaluations of my undergraduate teaching are among the best within the Faculty of Science. The mean student assessment across all of my courses since 1995 are shown in the following table. The values show the mean response to the question “Overall, the lecturer is an effective teacher” rated on a Likert scale from 1 (strongly disagree) to 5 (strongly agree).

Year	Cosc121	Cosc122	Cosc205/225	Cosc368/314	Cosc411/814	Mean
2015	4.6			4.3		4.4
2014	4.5					4.5
2012	4.2			4.4	4.6	4.4
2011	4.1	(extensive earthquakes required teaching from tents)				4.1
2010	4.2		4.6			4.4
2009	4.6		4.7			4.65
2008	4.6		4.9			4.8
2007			4.5			4.5
2005		4.5	4.5			4.5
2004		3.8	4.5		4.5	4.3
2003		4.3	4.5			4.4
2002		4.3	4.6			4.45
2001	4.4		4.7			4.55
2000	4.5		4.5			4.5
1999	4.4			4.4		4.4
1998	4.6			4.5		4.55
1997	4.1		4.5	4.8		4.5
1996	4.2			4.3		4.25
1995	4.0		4.1	4.6	4.1	4.23

Student glory

Joey Scarr	PhD	2016	John Makepeace Bennett Award for the Distinguished Computer Science PhD thesis in Australasia.
Philip Quinn	PhD	2015	US Patent Awarded (Google Assignee).
Philip Quinn	PhD	2014	US Patent Awarded (Google Assignee).
Stephen Fitchett	PhD	2014	CHI Honourable Mention award.
Philip Quinn	PhD	2013	Google Mountainview Internship.
Stephen Fitchett	PhD	2013	CHI Best Paper award.
Joey Scarr	PhD	2013	CHI Honourable Mention award.
Joey Scarr	PhD	2013	CHI ReplicCHI award.
Joey Scarr	PhD	2012	CHI Best Paper award.
Stephen Fitchett	PhD	2012	CHI Honourable Mention award.
Philip Quinn	PhD	2012	Google Mountainview Internship.
Joey Scarr	PhD	2012	Google Sydney Internship.
Stephen Fitchett	PhD	2011	Outstanding reference from Microsoft Research Asia senior researcher Darren Edge following Stephen's two month internship in Beijing (resulting in a patent application).
Joey Scarr	PhD	2012	\$3K for 2nd place in University 'PhD in 3' competition.
Joey Scarr	PhD	2012	\$1K for 1st place in College 'PhD in 3' competition.
Stephen Fitchett	PhD	2012	\$1K for 3rd place in College 'PhD in 3' competition.
Philip Quinn	PhD	2011	Honourable Mention award ACM CHI'11.
Joey Scarr	PhD	2011	Google Sydney Internship.
Susanne Tak	PhD	2010	\$5K Google Anita Borg Scholarship
Susanne Tak	PhD	2010	\$3K from ACM for participation at CHI's Doctoral Consortium
Jason Alexander	PhD	2010	PhD Thesis placed on "Dean's list for excellence" (top 10%)
Susanne Tak	PhD	2009	\$2K award for 1st place in College Research Poster competition
Jason Alexander	PhD	2008	\$1K award for 2nd place in College Research Poster competition
Jason Alexander	PhD	2008	Michael Sweeney award for best student paper, Graphics Interface '08.
Mark Hancock	PhD (Calgary)	2007	Best paper nomination at ACM CHI'07.
Josh Savage and Andrew Wallace	M.Sc. Hons	2005	Best paper nomination at ACM CHI'05.
Mike Moyle	Hons	2005	NZ Hi-Tech Young Achiever of the Year Award

Publications

Legal Reports and Affidavits

- LR1 Declaration of Prof. Andrew Cockburn in support of Apple Inc.'s motion for summary judgement, for the United States District Court (Northern District of California) in 12-CV-00630-LHK (Apple Inc. vs. Samsung Electronics Co. Ltd.). 9th October 2013. 2 pages.
- LR2 Rebuttal Expert Report of Prof. Andrew Cockburn for the United States District Court (Northern District of California) in 12-CV-00630-LHK (Apple Inc. vs. Samsung Electronics Co. Ltd.). 13th September 2013. 205 pages.
- LR3 Expert Report of Prof. Andrew Cockburn for the United States District Court (Northern District of California) in 12-CV-00630-LHK (Apple Inc. vs. Samsung Electronics Co. Ltd.). 12th August 2013. 198 pages (plus several hundreds of pages of exhibits).
- LR4 Seventh Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 14th January 2013. 194 pages.
- LR5 Sixth Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 17th December 2012. 139 pages.
- LR6 Fifth Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 18th September 2012. 101 pages.
- LR7 Fourth Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 8th June 2012. 2 pages.
- LR8 Third Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 15th May 2012. 254 pages.
- LR9 Second Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 23rd September 2011. 12 pages.
- LR10 First Affidavit of Prof. Andrew Cockburn for the Federal Court of Australia in NSD 1243 of 2011 (Apple Inc. & Anor. vs. Samsung Electronics Co. Ltd. & Anor). 6th September 2011. 78 pages.

Patents and Patent Applications

- P1 Andy Cockburn, Mark Billingham, Dinesh Mandalapu. User Interface Device. US Patent Application Number: PCT/IN2011/000897.

Edited Volumes

- EV1 M Billinghamurst and A Cockburn (Eds.) Proceedings of the Sixth Australasian User Interface Conference (AUIC2005). Volume 40 of the Conferences in Research and Practice in Information Technology, Australian Computer Society.
- EV2 A Cockburn (Ed.) Proceedings of the Fifth Australasian User Interface Conference (AUIC2004). Volume 28 of the Conferences in Research and Practice in Information Technology, Australian Computer Society.

Papers in Refereed Journals and Collections

- J1 J Aceituno, S Malacria, P Quinn, N Roussel, A Cockburn and G Casiez. The Design, Use, and Performance of Edge-Scrolling Techniques. *International Journal of Human-Computer Studies*. In press.
- J2 J Scarr, C Gutwin, A Cockburn and A Bunt. StencilMaps and EphemeralMaps: Spatially Stable Interfaces that Highlight Command Subsets. *Behaviour and Information Technology*. 34(11):1092-1106. 2015.
- J3 S Fitchett and A Cockburn. An Empirical Characterisation of File Retrieval. *International Journal of Human-Computer Studies*. 74:1-13. 2015.
- J4 A Cockburn, C Gutwin, J Scarr and S Malacria. Supporting Novice to Expert Transitions in User Interfaces. *ACM Computing Surveys*. 47(2):31:1-36. 2014.
- J5 J Scarr, A Cockburn and C Gutwin. Supporting and Exploiting Spatial Memory in User Interfaces. *Foundations and Trends in Human-Computer Interaction*. 6(1):1-84. 2013.
- J6 P Quinn, A Cockburn and J Delamarche. Examining the Costs of Multiple Trajectory Pointing Techniques. *International Journal of Human-Computer Studies*. 71(4):492-509. 2013.
- J7 S Tak and A Cockburn. Enhanced Spatial Stability with Hilbert and Moore Treemaps. *Transactions on Visualization and Computer Graphics*. 19(1):141-148. 2013.
- J8 A Cockburn, D Ahlstrom and C Gutwin. Understanding Performance in Touch Selections: Tap, Drag, and Radial Pointing Drag with Finger, Stylus and Mouse. *International Journal of Human-Computer Studies*. 70(3):218-233. 2012.
- J9 J Hauber, A Cockburn, M Billinghamurst and H Regenbrecht. The Impact of Collaborative Style on the Perception of 2D and 3D Videoconferencing Interfaces. *Open Software Engineering Journal*. 6:1-20. 2012.
- J10 A Cockburn, P Quinn, C Gutwin, G Ramos and J Looser. Air Pointing: Design and Evaluation of Spatial Target Acquisition with and without Visual Feedback. *International Journal of Human-Computer Studies*. 69:401-414. 2011.
- J11 E Tanvir, A Bunt, A Cockburn and P Irani. Improving Cascading Menu Selections with Adaptive Activation Areas. *International Journal of Human-Computer Studies*. 69:769-785. 2011.

- J12 A Cockburn and C Gutwin. A Model of Novice and Expert Navigation Performance in Constrained Input Interfaces. *ACM Transactions on Computer-Human Interaction*. ACM Press. 7(3):1-38. 2010.
- J13 A Cockburn and C Gutwin. A Predictive Model of Human Performance with Scrolling and Hierarchical Lists. *Human-Computer Interaction Journal*. Taylor and Francis. 24(3): 273-314. 2009.
- J14 A Cockburn, A Karlson and B Bederson. A Review of Overview+Detail, Zooming, and Focus+Context Interfaces. *ACM Computing Surveys*. ACM Press. 41(1): 1-31. 2008.
- J15 J Alexander, A Cockburn and R Lobb. AppMonitor: A Tool for Recording User Actions in Unmodified Windows Applications. *Behavior Research Methods*. Psychonomic Society. 40(2): 413-421. 2008.
- J16 G Casiez, D Vogel, R Balakrishnan and A Cockburn. The Impact of Control-Display Gain on User Performance in Pointing Tasks. *Human-Computer Interaction Journal*. Taylor and Francis. 23(3): 215-250. 2008.
- J17 S Jones, M Jones, G Marsden, D Patel and A Cockburn. An Evaluation Of Integrated Zooming and Scrolling On Small Screens *International Journal of Human-Computer Studies*. 63(3): 271–303. Elsevier Science. 2005.
- J18 A Cockburn and S Brewster. Multimodal Feedback for the Acquisition of Small Targets *Ergonomics*. Taylor & Francis. 48(9): 1129–1150. 2005.
- J19 M Moyle and A Cockburn. A Flick in the Right Direction: A Case Study of Gestural Input *Behaviour and Information Technology*. 24(4): 275–288. Taylor & Francis. 2005.
- J20 A Cockburn. Web Browsers *Berkshire Encyclopedia of Human-Computer Interaction*. Bainbridge, WS (Editor). Volume 1: 80–83. Berkshire Publishing. 2004.
- J21 A Cockburn and B McKenzie. Evaluating Spatial Memory in Two and Three Dimensions *International Journal of Human-Computer Studies*. 61(3): 359–373. Elsevier Science. 2004.
- J22 A Cockburn and M Smith. Hidden Messages: Evaluating the Efficiency of Code Elision in Program Navigation *Interacting with Computers: The Interdisciplinary Journal of Human-Computer Interaction*. 15(3): 387–407. 2003.
- J23 A Cockburn, S Greenberg, S Jones, B McKenzie and M Moyle. Improving Web Page Revisitation: Analysis, Design, and Evaluation *Information Technology and Society: Special Issue on Web Navigation, editors B Shneiderman, J Lazar, M Ivory*. 3(1): 159–183. 2003.
- J24 A Cockburn, B McKenzie and M JasonSmith. Pushing Back: Evaluating a New Behaviour for the Back and Forward Buttons in Web Browsers *International Journal of Human-Computer Studies*. 57(5):397–414. Elsevier Science. 2002.
- J25 T Bell, A Cockburn, B McKenzie and J Vargo. Digital Lectures: If You Make Them, Will Students Use Them? Constraints on Effective Delivery of Flexible Learning Systems *International Multimedia Electronic Journal of Computer-Enhanced Learning*. 3(2). Association for the Advancement of Computing in Education. 2001 This paper was one of 25 (from 115 full papers) selected from the proceedings of ED-MEDIA 2001 for adaptation and inclusion in the journal.

- J26 A Cockburn. Supporting Tailorable Program Visualisations with Literate Programming and Fish-eye Views. *Information and Software Technology*. 43(13):745–758. Elsevier Science. 2001.
- J27 A Cockburn, T Bell and B McKenzie. Death to the Office of the Nineties: An HCI Perspective on Some Problems in Modern Office Information Systems *Journal of Research and Practice in Information Technology, Special Issue on Human-Computer Interaction (HCI)*., 33(1):68–82. Australian Computer Society. 2001.
- J28 A Cockburn and B McKenzie. What Do Web Users Do? An Empirical Analysis of Web Use. *International Journal of Human-Computer Studies*, 54(6):903–922. Academic Press. 2001.
- J29 A Cockburn and S Greenberg. Issues of Page Representation and Organisation in Web Browser’s Revisitation Tools. *Australian Journal of Information Systems*, 7(2):120–127. 2000.
- J30 A Cockburn and P Weir. An Investigation of Groupware Support for Collaborative Awareness Through Distortion-Oriented Views. *International Journal of Human Computer Interaction*, 11(3):231–255. Lawrence Erlbaum Associates. 1999.
- J31 A Cockburn and S Greenberg. The Design and Evolution of TurboTurtle, a Collaborative Microworld for Exploring Newtonian Physics. *International Journal of Human-Computer Studies*, 48(6):777-801. Academic Press. 1998.
- J32 A Cockburn and A Bryant. Leogo: An Equal Opportunity User Interface for Programming. *Journal of Visual Languages and Computing*, 8(5–6):601–619. Academic Press. 1997.
- J33 A Cockburn and S Jones. Which way now? Analysing and Easing Inadequacies in WWW Navigation. *International Journal of Human-Computer Studies*, 45(1):105–129. Academic Press. 1996.
- J34 A Cockburn and S Jones. Four Principles for Groupware Design. *Interacting with Computers: The Interdisciplinary Journal of Human-Computer Interaction*, 7(2):195–210. Elsevier. 1995.
- J35 HW Thimbleby, SP Marsh, SR Jones, and AG Cockburn. Trust in CSCW. In S Scrivener, editor, *Computer-Supported Cooperative Work*, pages 253–271. Ashgate Publishing, 1994.
- J36 H Thimbleby, A Cockburn, and S Jones. Hypercard: An Object-Oriented Disappointment. In P Gray and R Took, editors, *Building Interactive Systems: Architectures and Tools*, pages 35–55. Springer-Verlag, 1992.

Papers in Refereed Conference Proceedings

- C1 P Quinn and A Cockburn. When Bad Feels Good: Assistance Failures and Interface Preferences. *Proceedings of CHI’2016*. San Jose, California. 2016. 4005-4010.
- C2 B Lafreniere, C Gutwin, A Cockburn and T Grossman. Faster Command Selection on Touchscreen Watches *Proceedings of CHI’2016*. San Jose, California. 2016. 4663-4674.
- C3 K Schramm, C Gutwin and A Cockburn. Supporting Transitions to Expertise in Hidden Toolbars *Proceedings of CHI’2016*. San Jose, California. 2016. 4687-4698.
- C4 C Gutwin, C Rooke, A Cockburn, R Mandryk and B Lafreniere. Peak-End Effects on Player Experience in Casual Games *Proceedings of CHI’2016*. San Jose, California. 2016. 5608-5619.

Honourable mention award

- c5 C Gutwin, A Cockburn and B Lafreniere. Testing the Rehearsal Hypothesis with Two FastTap Interfaces. *Proceedings of GI'2015*. Halifax, Canada. 2015. 223-231.
- c6 A Cockburn, C Gutwin and P Quinn. Examining the Peak-End Effects of Subjective Experience. *Proceedings of CHI'2015*. Seoul, S. Korea. 2015. 357-366.
- c7 S Malacria, J Acetuno, P Quinn, G Casiez, A Cockburn, and N Roussel. Push-Edge and Slide-Edge: Scrolling by Pushing Against the Viewport Edge. *Proceedings of CHI'2015*. Seoul, S. Korea. 2015. 2773-2776.
- c8 S Fitchett, A Cockburn and C Gutwin. Finder Highlights: Field Evaluation and Design of an Augmented File Browser. *Proceedings of CHI'2014*. Toronto, Canada. 2014. 3685-3694. **Honourable mention award**
- c9 C Gutwin, A Cockburn, J Scarr and S Malacria. Faster Command Selection on Tablets with FastTap. *Proceedings of CHI'2014*. Toronto, Canada. 2014. 2617-2626.
- c10 M Nancel and A Cockburn. Causality: A Conceptual Model of Interaction History. *Proceedings of CHI'2014*. Toronto, Canada. 2014. 1777-1786. **Honourable mention award**
- c11 J Scarr, A Cockburn, C Gutwin, A Bunt, and J Cechanowicz. The Usability of CommandMaps in Realistic Tasks. *Proceedings of CHI'2014*. Toronto, Canada. 2014. 2241-2250.
- c12 SA Seah, DM Plasencia, P Bennet, A Karnik, V Ortoloc, J Knibbe, A Cockburn, and S Subramanian. SensaBubble: A Chrono-Sensory Mid-Air Display of Sight and Smell. *Proceedings of CHI'2014*. Toronto, Canada. 2014. 2863-2872. **Honourable mention award**
- c13 P Quinn, S Malacria and A Cockburn. Touch Scrolling Transfer Functions. *Proceedings of ACM UIST'2013 Symposium on User Interface Software and Technology*. St Andrews, Scotland. 2013. 61-71.
- c14 S Malacria, J Scarr, A Cockburn, C Gutwin and T Grossman. Skillometers: Reflective Widgets that Motivate and Help Users to Improve Performance. *Proceedings of ACM UIST'2013 Symposium on User Interface Software and Technology*. St Andrews, Scotland. 2013. 321-330.
- c15 M Jain, A Cockburn, and S Madhvanath. Comparison of Phone-Based Distal Pointing Techniques for Point-Select Tasks. *Proceedings of INTERACT'13*. Cape Town, South Africa. 2013. 714-721.
- c16 S Malacria, G Bailly, J Harrison, A Cockburn, and C Gutwin. Promoting Hotkey Use through Rehearsal with ExposeHK. *Proceedings of CHI'2013*. Paris, France. 2013. 573-582.
- c17 J Scarr, A Cockburn, C Gutwin, and S Malacria. Testing the Robustness and Performance of Spatially Consistent Interfaces. *Proceedings of CHI'2013*. Paris, France. 2013. 3139-3148. **Honourable mention award**
- c18 S Fitchett, A Cockburn, and C Gutwin. Improving Navigation-Based File Retrieval. *Proceedings of CHI'2013*. Paris, France. 2013. 2329-2338. **Best paper award**
- c19 T Piumsomboon, A Clark, M Billinghamurst, and A Cockburn. User-Defined Gestures for Augmented Reality. *Proceedings of INTERACT'13*. Cape Town, South Africa. September. 2013. 282-299.

- c20 P Quinn, A Cockburn, G Casiez, N Roussel, and C Gutwin. Exposing and Understanding Scrolling Transfer Functions. *Proceedings of ACM UIST'2012 Symposium on User Interface Software and Technology*. Cambridge, Massachusetts, October. 2012. 341-350.
- c21 A Cockburn, P Quinn, C Gutwin, and S Fitchett. Improving Scrolling Devices with Document-Length-Dependent Gain. *Proceedings of CHI'2012*. Austin, Texas, May. 2012. 267-276.
- c22 J Scarr, A Cockburn, C Gutwin, and A Bunt. Improving Command Selection with CommandMaps. *Proceedings of CHI'2012*. Austin, Texas, May. 2012. 257-266. **Best paper award**
- c23 S Fitchett and A Cockburn. AccessRank: Predicting What Users Will Do Next. *Proceedings of CHI'2012*. Austin, Texas, May. 2012. 2239-2242. **Honourable mention award**
- c24 J Scarr, A Cockburn, C Gutwin, and P Quinn. Dips and Ceilings: Understanding and Supporting Transitions to Expertise in User Interfaces. *Proceedings of CHI'2011*. Vancouver, Canada, May. 2011. 2741-2750.
- c25 V Levesque, L Oram, KE MacLean, A Cockburn, N Marchuk, D Johnson, JE Colgate, and M Peshkin. Enhancing Physicality in Touch Interaction with Programmable Friction. *Proceedings of CHI'2011*. Vancouver, Canada, May. 2011. 2481-2490. **Best paper award**.
- c26 P Quinn, A Cockburn, KJ Raiha, and J Delemarche. On the Costs of Multiple Trajectory Pointing Methods. *Proceedings of CHI'2011*. Vancouver, Canada, May. 2011. 859-862. **Honourable mention award**
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- 040 AJG Cockburn. A user's guide to TELEFREEK: a communication and social awareness environment. Technical Report 105, Department of Computing Science and Mathematics, University of Stirling, Stirling, Scotland, FK9 4LA, 1993.
- 041 AJG Cockburn. A user's guide to *mona*: an enhanced email system. Technical Report 97, Department of Computing Science and Mathematics, University of Stirling, Stirling, Scotland, FK9 4LA, 1992.

Grants

Project	Source	Date	Amount
Travel expenses	Australian National University	2016	≈ \$3,000
Travel expenses	Airbus & University of Toulouse, France	2016	≈ \$5,000
Travel expenses	CHI Academy Award (Seoul)	2015	≈ \$5,000
Benjamin Meaker Visiting Professorship	Institute of Advanced Studies, University of Bristol	June-August 2013	£7,000
Understanding and improving the novice to expert transition with user interfaces	Marsden, Royal Soc. (10-UOC-020)	2011-2014	\$496,000
Dynamic Affordances for Multimodal Interfaces (primary with Mark Billinghurst)	HP Innovations Award (continuation)	2011-2012	US\$40,000
Travel expenses	ACM UIST conference	June 2009	≈ \$4,000
Postdoctoral Fellow for understanding novice-expert transition	BuildIT	2011-2012	\$116,000
Dynamic Affordances for Multimodal Interfaces (primary with Mark Billinghurst)	HP Innovations Award (continuation)	2010-2011	US\$40,000
Travel expenses	ACM UIST conference	June 2009	≈ \$4,000
Scrolling device studies	Logitech Inc	2010	\$10,000
International collaborator on Canadian GRAND project	Networks of Centres of Excellence in Canada	2010-2014	C\$25,000,000
BuildIT Emerging Researcher Mentoring Fund	BuildIT	2010	\$8,000
Pythodogical	UC Teaching and Learning	2009-2010	\$15,000
Dynamic Affordances for Multimodal Interfaces (primary with Mark Billinghurst)	HP Innovations Award	2009-2010	US\$40,000
Travel expenses	ACM UIST conference	June 2009	≈ \$4,000
Travel expenses	ACM CHI conference	Nov. 2008	≈ \$4,000
Improving user interfaces for document navigation	Marsden, Royal Soc. (07-UOC-013)	2007–2010	\$400,000
Accessible AR on Everyday Devices (Assoc. with HIT Lab)	FRST (UOCX0704)	2007–2011	\$1,875,000
Expenses	Logitech Inc., California	April 2007	≈ \$5,000
Expenses	Logitech Inc., California	July 2006	≈ \$2,000
Grant in aid	University of Toronto	July 2006	≈ \$8,000
Grant in aid	University of Saskatoon	June 2006	≈ \$6,000
Grant in aid	University of Calgary	May 2006	≈ \$3,000
Grant in aid	IBM Almaden Research, California	April 2006	≈ \$3,000
NOKIA Pocket (Assoc. with HIT Lab).	Nokia Research Center	2006.	≈\$100,000.
Evaluation of Speed-Dependent Automatic Zooming	Computer Science	2003	\$3,000
Evaluation of Speed-Coupled Scrolling	Computer Science	2002	\$3,000
Multimedia Learning of Graphics (Assoc.)	UoC Teaching and Learning Ctte.	2002	\$5,000
Fastap Evaluation	Digit Wireless LLC, MA, USA.	2002	\$3,000
Supermedia—The MagicBook Project (Assoc.)	NZ NERF (UOCX0204)	2002	\$333,000
Practical Flexible Delivery of Virtual Learning	UoC (U6360)	1999–2002	\$40,000
Collaborative Programming for Children	Marsden, Royal Soc. (UOC805)	2000–2002	\$135,000
Evaluation of Back/Forward in Web-browsers	Computer Science	2001	\$3,000
Interfaces for WWW navigation.	Microsoft Research, USA.	1999	≈ \$8,000
HCI and multi-media research lab	Computer Science	1999	\$7,400
Video analysis and multi-media lab	UoC (2313728)	1996	\$30,000
Collaborative video analysis	Computer Science	1996	\$3,000
Collaborative microworlds	Computer Science	1995	\$4,000
Asynchronous groupware toolkits	Computer Science	1994	\$2,000

Academic Service

Chair	2016	CORE Chris Wallace Research Award Panel
Deputy Chair	2016-2018	PBRF Mathematical and Information Sciences Panel
Editorial	2015-	Editorial Board of Foundations and Trends in Human-Computer Interaction. NOW Publishers.
Editorial	2015-	Editorial Board of Human-Computer Interaction. Taylor and Francis.
Chair	2012-2015	Papers co-chair for ACM CHI 2014 and 2015 (over 2000 submissions).
Service Award.	2014.	ACM SIGCHI Recognition of Service Award.
Editorial	2012-	Editorial Board of ACM Transactions on Computer-Human Interaction. ACM.
Panel member	2011-2012	Member of the Mathematics, Information Sciences and Technology PBRF panel, responsible for assessing research capability of New Zealand academics.
Panel member	2008-2009	BuildIT Postdoctoral Award.
Governance board	2008-2010	Elected member of the governance board of BuildIT, established with \$3.2M of government funding to build New Zealand's research capacity in ICT.
Panel member	2009, 2011	Member of the Mathematics and Information Sciences Marsden grant review panel.
Panel member	2008-2009	BuildIT Postdoctoral Award.
Panel member	2008-2010	BuildIT Emerging Reseacher Travel Fund.
Mentor	2009-2010	BuildIT funded mentor for two early career researchers at Waikato and Victoria universities.
External assessor	2010	Docent application advisor, University of Tampere, Finland.
External assessor	2010	Promotion application for University of Auckland.
External assessor	2007, 2009	Promotion applications for INRIA, University Paris-Sud.
External assessor	2007	Postdoctoral applicants for Ryerson Univerity, Canada.
Editorial	2002-2013	Associate Editor of the International Journal of Human-Computer Studies. Elsevier.
Editorial	2002-2013	Member of the Editorial Board for Interacting with Computers: The Interdisciplinary Journal of Human-Computer Interaction. Elsevier.
Chair	2010-2011	Subcommittee Papers Chair ACM Conference on Human Factors in Computing Systems (CHI'11).
Senior Reviewing	2004-	Associate Papers Chair for the ACM Conference on Human Factors in Computer Systems (ACM CHI'04, CHI'08, CHI'09).
Senior Reviewing	2009	Associate Papers Chair for the ACM Conference on User Interface Software and Technology (UIST 2009).
Senior Reviewing	2007	Short papers chair for INTERACT 2007
Chair	2004-2005	Papers chair for Australasian User Interface Conferences
Competition judge	2009	Student Research Competition at CHI 2009.
Journal Reviewing	1993-	Communications of the ACM, Human-Computer Interaction Journal, IEEE Transactions on Visualization and Computer Graphics, ACM Transactions on Computer-Human Interaction, Ergonomics, Information and Software Technology, Information Technology and Society, Interacting with Computers, Virtual Reality, Personal and Ubiquitous Computing, Journal of Computer-Mediated Communication, and International Journal of Human-Computer Studies.
Misc.	2003	Organised the 'Masterclass and Symposium on Interacting with and Through Next Generation Computer Systems', held at the University of Canterbury.
Program committees	Ongoing	ACM CHI (2004-), ACM UIST 2009, USAB 2010 (6th Symposium of the WG HCI&UE of the Austrian Computer Society), INTERACT (1997, 2005), MobileHCI 2004, WWW 2003, CSCL 2002, WI/IF 2001, APCHI (96, 98, 2000, 2004), AUIC (annual), ACSC (1998, 2011), OzCHI 1996.
Organising committees	1996, 1998	OzCHI
Doctoral consortium	2008	CHI 2008
Other reviewing	Ongoing	Graphics Interface 2009, 2010, 2011; UIST Demos 2009; ACM CHI 2007, 2006, 2005, 2004, 2003, 2002. AICCS-07; ACM UIST 2007, 2006, 2005, 2003; InfoVis 2006; BEyond time and errors: novel evaluation methods for Information Visualization (BELIV'06); ACM Advanced Visual Interfaces (AVI) 2006; IEEE Tencon'05; CHINZ'05; Interact'05; MobileHCI'05; ACM CSCW 2004; ACM UIST 2003; INTERACT 2003; Australasian User Interface Conference, 2000-2003; The Active Web, '99; ACM Conference on Data Communications 1994; ACM Conference on Human Factors in Computing Systems 1996; OZCHI'94-97; APCHI'96 & '98; ACM Hypertext '97; Graphics Interface '97; InterAct '97; ACM Group '97.

Invited seminar presentations outside the University of Canterbury

Institute of Advanced Studies, University of Brisol, UK.	August, 2013.
Department of Computer Science, University of Glasgow, UK.	August, 2013.
Colloquium Polaris, INRIA, Lille, France.	July, 2013.
Department of Computer Science, University of Manitoba, Canada.	August, 2010.
Department of Computer Science, University of Manitoba, Canada.	August, 2010.
Department of Computer Science, University of British Colombia, Canada.	August, 2010.
Keynote address, Australasian Computer Science Week.	January, 2010.
Department of Computer Science, University of British Colombia, Canada.	July, 2009.
Department of Computer Science, University of Calgary, Canada.	July, 2008.
Department of Computer Science, Swansea University, UK.	September, 2008.
INRIA, Universite Paris-Sud, France.	September, 2006.
Department of Computer Science, Swansea University, UK.	August, 2006.
Logitech Inc., California.	July, 2006.
Department of Computer Science, Dalhousie University, Nova Scotia.	July, 2006.
Digital Graphics Project Lab, University of Toronto.	June, 2006.
Department of Computer Science, University of Saskatoon.	June, 2006.
Department of Computer Science, University of Calgary.	April, 2006.
IBM Almaden Research Centre.	March, 2006.
Digital Fusion Inc..	February, 2006.
Usability Professionals Association (UPA), Canterbury Innovation Incubator.	November, 2005.
Usability Professionals Association (UPA), Canterbury Innovation Incubator.	November, 2004.
Department of Computer Science, University of Calgary, Canada.	November, 2003.
Human-Computer Interaction Lab, Univ. of Maryland, College Park, USA.	October 2003.
Department of Computer Science, University of Glasgow.	September, 2003.
Department of Psychology, University of York.	September, 2003.
Interaction Centre, University College London.	September, 2003.
Department of Computer Science, University of Southampton.	September, 2003
New Zealand Computer Society, Christchurch.	June, 2003.
Department of Computer Science, University of Waikato.	December, 2002.
Allied Telesyn Research.	November, 2002.
Department of Computer Science, University of Calgary, Canada.	October, 2001.
Institute for Info. Tech., National Research Center, Ottawa, Canada.	October, 2001.
Grouplab, University of Calgary, Canada.	October, 2001.
Department of Computer Science, University of Saskatchewan, Canada.	October, 2001.
Department of Computer Science, University of Cape Town, South Africa.	September, 2001.
Department of Computer Science, Victoria University of Wellington.	July, 2000.
Inaugural ACM SIGCHI_NZ meeting. Massey University.	June 2000.
Department of Computer Science, University of Waikato.	May, 2000.
Department of Computer Science, University of Calgary.	March, 1999.
Center for LifeLong Learning and Design, University of Colorado, Boulder.	November, 1998.
Norsk Regencentral (Norwegian Research Centre), Oslo, Norway.	August, 1998.
Department of Computer Science, University of Calgary.	January, 1996.
Department of Computer Science, Massey University.	January, 1993.
Department of Computer Science, University of Waikato.	January, 1993.

Visiting academics

I have attracted many world leaders in Human-Computer Interaction to the department. Most of them have presented several seminars while at Canterbury, including numerous ‘Science Prestige Lectures’ and Ben Sheiderman’s Royal Society Evening Lecture.

Prof. Wolfgang Stuerzlinger	University of Waterloo, Canada	Three months, 2011-2012
Prof. Kari-Jouko Raiha	University of Tampere, Finland	Nine months, 2009-2010
Dr. Saira Ovaska	University of Tampere, Finland	Nine months, 2009-2010
Dr. David Ahlstrom	Klagenfurt University, Austria.	Eighteen months, 2008-2010.
Prof. Carl Gutwin	University of Saskatchewan, Saskatoon, Canada.	Three months, 2008.
Prof. Karon MacLean	University of British Columbia, Canada.	Six months, 2007-2008.
Prof. Bob Kraut	Carnegie Mellon University.	Erskine Visitor. Three months, 2008.
Prof. Andrew Monk	University of York, UK.	Three months, 2008.
Dr. Gonzalo Ramos	University of Toronto, Canada.	One month, 2007.
Prof. Carl Gutwin	University of Saskatchewan, Saskatoon, Canada.	Erskine Fellow. Four months, 2007.
Prof. Alistair Sutcliffe	University of Manchester, UK.	One month, 2007.
Prof. Carl Gutwin	University of Saskatchewan, Saskatoon, Canada.	One week, 2005.
Prof. Ben Bederson	University of Maryland, Maryland, USA.	One week, 2004.
Prof. Ben Shneiderman	University of Maryland, Maryland, USA.	Erskine Fellow. One month, 2003.
Prof. Jenny Preece	University of Maryland, Baltimore County, Maryland.	Erskine Fellow. One month, 2003.
Prof. Stephen Brewster	University of Glasgow, UK.	Erskine Fellow. Six months, 2003.
Prof. Gerhard Fischer	University of Colorado, Boulder.	One year, 2002–2003.
Prof. Bob Spence	Imperial College London.	Erskine Fellow. One month, 2002.
Prof. Gerhard Fischer	University of Colorado, Boulder.	Erskine Fellow. One month, 2000.
Prof. Harold Thimbleby	Middlesex University, UK.	Erskine Fellow. One month, 1997.
Dr Allen Cypher	Apple Research, Cupertino, California.	One week, 1996.
Dr Akihiko Machizawa	Communications Research Laboratory, Japan.	Three years, 1996–1998.
Professor Brian Wyvill	University of Calgary, Canada.	Erskine Fellow. Two months, 1996.
Professor Saul Greenberg	University of Calgary, Canada.	Erskine Fellow. Six months, 1995.
Carl Gutwin	University of Calgary, Canada.	Two months, 1995.
Dr Steve Jones	University of Abertay, Dundee.	Six months, 1995.

Other

- Member of the Association of Computing Machinery (ACM).
- Member of the ACM Special Interest Group of Computer-Human Interaction.