

Jocelyn D. Smith

Information and Communication Technology Centre
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Education

Master of Science 2006

University of British Columbia, Vancouver, BC, Canada
Computer Science

Bachelor of Science 2003

University of British Columbia, Vancouver, BC, Canada
Computer Science Honours co-op (5-year degree with 1½ years of industrial internships)

HCI Experience

Research Officer, June 2006 – present, CSIRO

Part of a small team of CSIRO scientists working with medical specialists to explore next-generation delivery of specialist medical services over a distance by designing and constructing a research prototype tele-health system

- Involved throughout the project: site visits to observe specialist medical consultations, proposal writing, system design, development and evaluation
- Designed, ran, and analyzed two human factors studies as principal researcher for one and an associate researcher for the other – two papers presenting the results submitted to European Computer Supported Collaborative Work Conference
- Collaborated with colleagues from CSIRO and medical specialists from RCH (Royal Children's Hospital) Melbourne to design a pilot evaluation of the tele-health system in the hospital setting

Internship, December 2005-May 2006, CSIRO

Involved in developing a tele-health project proposal and system design (group proposal)
Explored mobile tactile communication through pilot study focus group (co-ran)

Masters Thesis Research: **Using Haptics to Enrich Remote Dyad Communication**, 2004/2005

Developed software and ran user study to explore how interaction design influences expressiveness afforded by a simple haptic (touch) communication device
Investigated the influence of metaphor and the existing human relationship on the user experience using both quantitative and qualitative methods

Human-Computer Interaction course project: **Gestures on Tabletop Displays**, 2003
Created and evaluated gestures for video editing on a tabletop display using HCI techniques including paper prototypes and user studies (group project)

Human-Computer Technology course project: **Social Interaction based Musical Environment**, 2004
Created and evaluated an interface that used basic interaction dynamics of a three-person group to control musical output (group project)

Student Researcher(co-op), May-Dec. 2001, National Research Council of Canada
Responsible for research, design, user documentation, implementation, testing and client presentations for the clustering module of the BioMiner a system for genetic data mining

Teaching Experience

Teaching Assistant, September 2003 - April 2004, University of British Columbia
Course: Introduction to Discrete Structures
Prepared and lead up to six tutorial sections a week
Answered students' questions and addressed concerns with assignment marking
Created questions for assignments, midterms and final exam
Marked midterms and final exams

Undergraduate Teaching Assistant, September-April 2002, UBC
Course: Introduction to Data Structures
Marked programming assignments

Other Experience

Honours Thesis, **Triangle Guarding**, 2003
Studied a variant of the art gallery guarding problem in computational geometry
Proved the general case NP-hard and developed an algorithm for a set of solvable cases

Undergraduate Research Assistant, Summer 2002, UBC
Programmed and evaluated collaborative filtering techniques and confidence heuristics

Methodologist(co-op), January-August 2000, Statistics Canada
Researched and implemented sample allocation strategies to meet survey objectives

Awards and Honours

University of BC Graduate Fellowship 2004, **\$16000**
Deans List 2000/01, 1998/99, 1997/98
Charles and Jane Banks Scholarship 2000, **\$500**
Norman A. Mackenzie College Scholarship 1998, **\$2000**
BC Scholarship for Excellence in Provincial Examinations 1997, **\$1000**
BC Passport to Education 1994-97

Publications

Smith, J. D., Hutchins, M. A., Stevenson, D. R., Palmer, D., Taylor, K., Gunn, C., and Adcock, M. (2007). The Effect of Interaction Design on Remote Guidance Collaboration. (submitted to *European Conference on Computer Supported Collaborative Work*)

Stevenson, D. R., Smith, J. D., Hutchins, M. A., Palmer, D., and Taylor, K. (2007). Media spaces for complex applications. (submitted *European Conference on Computer Supported Collaborative Work*)

Palmer, D., Adcock, M., Smith, J. D., Hutchins, M. A., Gunn, C., Stevenson, D., and Taylor, K. (2007). Annotating with Light for Remote Guidance. (submitted *User Interface Software and Tech. conference*)

Smith, J. D. and MacLean, K. E., (2007). Communicating Emotion through a Haptic Link: Design Space and Methodology. *International Journal of Human-Computer Studies*, Springer, 65(4), p. 376-387

Smith, J. D. (2005). Communicating emotion through a haptic link: A study of the influence of metaphor, personal space and relationship. *Master's thesis*, University of British Columbia, Vancouver, Canada, 2005

Swindells, C., Smith, J. D., and MacLean, K. E. (2005). An Exploration of Representations to Aid Design of Haptic Behaviours. In Proc. of *Conference on Human Factors in Computing Systems (CHI) Workshop - Hands-on Haptics*, ACM, pp. 5-8

Smith, J. D. and MacLean, K. E. (2005). Using Haptic Metaphor to Communicate Emotion: a structured approach - POSTER, in Proc. of *World Haptics Conference*, IEEE-VR2005, Pisa, Italy, 2005.

Smith, J. and Evans, W. (2003). Triangle Guarding, in Proc. of the *15th Canadian Conference on Computational Geometry (CCCG)*, p. 76-80.

Carenini, G., Smith, J. & Poole, D., Towards more Conversational and Truly Collaborative Recommender Systems, in Proc. of the *7th International Conference on Intelligent User Interfaces*, Miami, USA, 2003

Conferences

Presented at CeNTIE symposium, October 2006, Sydney Australia

Presenter at CSIRO Cebit Australia Stand, May 2006

Presenter and Participant, Hands on Haptics Workshop, CHI 2005, Oregon USA

Attendee, Computer Human Interaction Conference (ACM SIGCHI), 2005, Oregon USA

Poster presenter, World Haptics Conference (WHC), 2005, Pisa Italy

Attendee, User Interface Software and Technology (UIST) 2003, Vancouver Canada

Student Volunteer, 5th International Conference on Multimodal Interfaces, 2003, Canada

Paper presenter, 15th Canadian Conference on Computational Geometry (CCCG), 2003

Community Roles and Volunteer Activities

English reviewer for SIGGRAPH 2006/2007

Organize health and wellness activities for staff at ANU CSIRO site

Social Coordinator, Computer Science Graduate Student Society (CSGSA), 2004/05

Headed committee to organize a week long orientation for 80 new computer science graduate students, department wide BBQs, information sessions and the CSGSA AGM.

Chair, research group meetings, 2004/05

Activity/group leader, GirlSmart-computer science workshop for grade 6/7 girls, 2004/05