SCOTT BATEMAN, PhD

Associate Professor | Faculty of Computer Science | University of New Brunswick

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SECTION 1 | BIBLIOGRAPHY

Scott Saunders Bateman Citizenship Status: Canada

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HOME ADDRESS 15 Ridgewell Place Fredericton, NB E3B 6J9, Canada

SECTION 2 | EDUCATION

2013 - Doctor of Philosophy

Computer Science – Human-Computer Interaction

University of Saskatchewan, Saskatoon, SK, Canada

Dissertation: Social Feedback: Learning from Shared Interaction History to

Support Information Seeking on the Web

Advisors: Prof. Carl Gutwin & Prof. Gordon McCalla

2007 – Master of Science

Computer Science - Human-Computer Interaction/Educational Technology

University of Saskatchewan, Saskatoon, SK, Canada

Thesis: Collaborative Tagging: folksonomy, metadata, visualization, e-

learning

Advisor: Prof. Gordon McCalla

2001 - Bachelor of Science

Major: Computer Science, First-class Honours

University of Prince Edward Island, Charlottetown, PE, Canada

OTHER FORMAL EDUCATION

2007 - Certificate of University Teaching

University of Saskatchewan, Saskatoon, SK, Canada

AREA(S) OF ACADEMIC INTEREST

Human-Computer Interaction, Computer Supported Cooperative Work, Game Design, Serious Games, and Mixed Reality Technology.

SECTION 3 | EMPLOYMENT

3.1 EMPLOYMENT HISTORY AT UNB

2019 - present	Associate Professor (tenured 2021) Faculty of Computer Science University of New Brunswick
2015 - 2019	Assistant Professor (tenure-track) Faculty of Computer Science University of New Brunswick

3.2 LIST RELEVANT PREVIOUS EMPLOYMENT IN CHRONOLOGICAL ORDER

2015 - 2019	Adjunct Professor Dept. of Computer Science University of Prince Edward Island
	Collaborated on research projects and assisted in the supervision of undergraduate research
2012 - 2015	Assistant Professor (tenure-track) Dept. of Computer Science University of Prince Edward Island
2013	Visiting Researcher iLab University of Calgary (12 weeks)
2011	Research Intern Microsoft Research Redmond, Washington, USA (14 weeks)
2008	Research Intern Centre for Social Software-IBM Research Cambridge, Mass., USA (14 weeks)
2006	Research Intern Department of Informatics-National College of Ireland Dublin, Ireland (12 weeks)

3.3 LEAVES GRANTED BY UNB OR OTHER UNIVERSITY

N/A

3.4 DISTINCTIONS, HONOURS, FELLOWSHIPS, SCHOLARSHIP

2012 - 2014	Post-Doctoral Fellowship (NSERC PDF) Natural Science and Engineering Research Council (NSERC), to be taken up at Carnegie Mellon University, November 1st, 2012 (\$80,000), declined.
2013	Visiting Researcher Fellowship Department of Computer Science, University of Calgary (\$1,000)

2012 Best Graduate Student | selected by faculty at the Department of Computer Science, University of Saskatchewan for academic and scholarly achievement, and for contributions made and service to the Department. Walter C. Sumner Memorial Fellowship | Walter C. Sumner Foundation. (\$6,000) Microsoft Research Student Travel Award | for CHI 2012, in Austin, Texas. (\$500) **Student Travel Award** | Univ. of Sask., for CHI 2012, in Austin, Texas. (\$750) Faculty Scholarship | Univ. of Sask. (\$13,700) 2011 Microsoft Research Student Travel Award | HCIR 2011, Mountain View, CA. (\$500) Student Travel Award | Univ. of Sask., for CHI 2011, Vancouver. (\$500) Faculty Scholarship | Univ. of Sask. (\$13,700) Walter C. Sumner Memorial Fellowship | Walter C. Sumner Foundation. (\$6,000) Honourable Mention for Best Paper | for the paper Using Target Assistance for Subtly Balancing Competitive Play, Conf. on Human-Factors in Computing (CHI '11). 2008 - 2011National Post Graduate Scholarship (PGS D) | Natural Sciences and Engineering Research Council (NSERC). (\$63,000) NSERC Holder's Scholarship | Univ. of Sask. (\$18,000) Faculty Scholarship | Univ. of Sask. (\$33,000) 2010 Best Paper Award | for the paper Useful Junk? The Effects of Visual Embellishments on the Comprehension and Memorability of Charts, Conf. on Human-Factors in Computing (CHI '10). **Student Travel Award** | Univ. of Sask., for CHI 2010, in Atlanta. (\$750) 2007 - 2008 LORNET Research Fellowship | Univ. of Sask. (\$25,000) 2007 Student Travel Award, World Wide Web Conference | Banff, Canada. (\$500) 2005 - 2007 College of Graduate Studies and Research Scholarship | Univ. of Sask. (\$15,000) **Graduate Teaching Fellowship, Univ. of Saskatchewan** | (\$15,000) 2006 Best Group Project. Summer School on Personalized E-Learning | National College of 1st Place in the Demo Competition, 2006 LORNET Conference | for "Collective Intelligence in E-Learning" a demo of the Open Annotation and Tagging System (OATS).

SECTION 4 | **DISSEMINATION OF KNOWLEDGE**

4.1 COURSES TAUGHT IN PRECEDING 5 YEARS

Fall 2021

behind user interfaces.
CS 1003 – Programming and Problem Solving for Engineers – first-year course for non-software engineering, engineering students. Taught Python, programming concepts and problems solving skills.
CS 4065/6065 – Interactive Human-Centered Systems – taught fourth-year/junior graduate course on introduction to HCI design, evaluation and research.
CS 2053 – Introduction to Game Development – taught game design, development, 3D graphics, and relevant algorithms for games. Used the Unity platform.
CS 3035 – Building User Interfaces –taught third year course on the implementation behind user interfaces.
CS 6999 – Mixed Reality Course – newly designed senior grad course. Seminar style with a mixed reality-based project.
CS 4065/6065 – Interactive Human-Centered Systems – taught fourth-year/junior graduate course on introduction to HCI design, evaluation and research.
CS 2053 – Introduction to Game Development – taught game design, development, 3D graphics, and relevant algorithms for games. Used the Unity platform.
CS 3035 – Building User Interfaces – designed and taught third year course on the implementation behind user interfaces. 48 students.
CS 4065/6065 – Interactive Human-Centered Systems – taught fourth-year/junior graduate course on introduction to HCI design, evaluation and research. 29 students (19 CS4065, 10 CS6056). UNB.
CS 2053 – Introduction to Game Development – taught game design, development, 3D

design. 44 students. UNB.

CS 3035 – Building User Interfaces –taught third year course on the implementation

graphics, and relevant algorithms for games. Used the Unity platform. 38 students. UNB.

CS 1073 – Introduction to Computer Science I – taught Java, problem solving, program

CS 2053 – Introduction to Game Development – taught game design, development, 3D graphics, and relevant algorithms for games. Used the Unity platform. 38 students. UNB.

Fall 2018

Winter 2018

CS 4065/6065 – Interactive Human-Centered Systems – taught fourth-year/junior graduate course on introduction to HCI design, evaluation and research. 26 students (18 CS4065, 8 CS6056). UNB.

Fall 2017

CS 1073 – Introduction to Computer Science I – taught Java, problem solving, program design. 44 students. UNB.

Winter 2017

CS 1083 - Introduction to Computer Science II – taught Java, problem solving, program design. 39 students. UNB. Course director (coordinated with two other course sections on a common schedule, assignments, labs and exams).

CS 4065/6065 – Interactive Human-Centered Systems – taught fourth year/junior graduate course on introduction to HCI design, evaluation and research. 18 students. UNB.

Fall 2016

CS 1073 – Introduction to Computer Science I – taught Java, problem solving, program design. 39 students. UNB.

CS 3025 – Human-Computer Interaction – taught introductory concepts in interface design, requirements and needs finding, and interface evaluation. 41 students. UNB.

CS 2999 – Problem Solving for Programmers – supervised independent study course on advanced problem-solving techniques. 7 students. UNB.

Winter 2016

CS 1083 – Introduction to Computer Science II – taught Java, problem solving, program design. 38 students. UNB.

CS 2999 – Problem Solving for Programmers – supervised independent study course on advanced problem-solving techniques. 8 students. UNB.

CS 4995/6905 – Interactive Human-Centered Systems – taught fourth year/junior graduate course on introduction to HCI design, evaluation and research. 33 students. UNB.

Fall 2015

CS 1083 – Introduction to Computer Science II – taught Java, problem solving, program design. 24 students. UNB.

Winter 2015

CS 151 – Introduction to Computer Science I – taught Java, problem solving, program design. 34 students. UPEI.

CS 482 – Software Systems Development Project – Supervise the development of capstone group projects, ensure that software engineering process and principles are correctly applied, advise on logistical challenges and conflict resolution. 10 students. UPEI.

CS 483 – Video Game Programming Project – Supervise the development of capstone game for video game specialization, ensure that software engineering process and principles are correctly applied, communicate and work with industry advisors. 1 student. UPEI.

Fall 2014	CS 261 – Data Structures – Taught the design and implementation of data structures,
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sorting algorithms, and basic algorithm analysis. Overall student rating: 4.3/5, 26

students. UPEI.

CS 495 – Data Science – Designed the curriculum for this new course, without the benefit of a textbook. Taught computational statistics, machine learning, and visualization.

Overall student rating: 4.8/5, 17 students. UPEI.

Winter 2014 CS 151 – Introduction to Computer Science I – taught Java, problem solving, program

design. Overall student rating: 4.2/5, 28 students. UPEI.

CS 152 – Introduction to Computer Science II – taught Java, problem solving, program

design. Overall student rating: 4.5/5, 32 students. UPEI.

Fall 2014 CS 151 – Introduction to Computer Science I – taught Java, problem solving, program

design. Overall student rating: 4.2/5, 35 students UPEI.

CS 321 – Human-Computer Interaction – taught need finding, interface design and

evaluation. Overall student rating: 4.2/5, 15 students. UPEI.

Winter 2013 CS 151 – Introduction to Computer Science I – taught Java, problem solving, program

design. Overall student rating: 4.3/5, 25 students. UPEI.

4.2 DEVELOPMENT OF NEW COURSES

CS 6999 (2020) – Mixed Reality Seminar (Graduate level)

CS 3035 (2019) - Building User Interfaces

CS 4065/6065 (2016) – Interactive Human-Centered Systems

4.3 UPDATING OF EXISTING COURSES

CS 1003 (2021) - Programming and Problem Solving for Engineers (in collaboration with a student assistant)

CS 2053 (2018) – Video Game Development

4.4 EFFECTIVE USE OR DEVELOPMENT OF TEACHING AIDS & TRAINING

2020 – Certificate of Participation in UNB CETL "How to Adapt Your Course for the Fall: Everything you need to know."

4.5 INVOLVEMENT IN CURRICULUM DEVELOPMENT

I co-organize a shared repository of HCI curriculum, course materials and educational activities for Canadian HCI Faculty. We currently have over 40 members.

4.6 ORGANIZATION OF FIELD SCHOOLS, LABS OR PRACTICA

NextGenUX 2018: Co-organizer for NextGenUX. A two-day tutorial and workshop event to introduce HCI research and practice to New Brunswick industry and government. Fredericton, NB. April 2018. The 20-day event attracted over 110 attendees; I saw presentations from 7 international HCI research leaders.

4.7 a) DIRECTION OF RESEARCH ON UNDERGRADUATE OR GRADUATE STUDIES

UNDERGRADUATE RESEARCH ASSISTANTS

Summer 2022	Book Sadprasid (UNB) NSERC USRA student worked on game to breathing exercises, and technology to support collaboration in mixed reality.
	Heena Thadani (Mody Institute of Technology, Lakshmangarh, India) MITACS Globalink student worked on a platform for collaboration in mixed-reality.
	Deep Fumatiya (Veermata Jijabai Technological Institute, Mumbai, India) MITACS Globalink student working on processing and visualizing large 3D datasets.
Summer 2021	Book Sadprasid (UNB) NSERC USRA student working on game to support chest physiotherapy exercises.
Summer 2020	Book Sadprasid (UNB) NSERC USRA student working on qualitative analysis of novel computer interactions.
Summer 2019	Noor Ali (UNB) for research on developing an augmented reality-based game to connect families at a distance.
	Nikita Baliesnyi (Taras Shevchenko National University of Kyiv), MITACS Globalink student creating a web toolkit for multi-display environments.
	Connor Wilson (UNB), NSERC USRA student, worked on creating sensory illusions in Augmented Reality.
Winter 2019	Nathan Sonier (UNB) for research on developing an in-home, health visit video conferencing system.
Summer 2018	Wesley Finck (UNB) NSERC USRA student, research on developing a virtual prosthesis trainer. Co-supervised (with Erik Scheme).
Summer 2017	Ben Rombaut (UNB) for his research on Developing Therapeutic Gait Feedback for a Smart-Cane. Co-supervised (with Erik Scheme)
	Nathaniel Brewer (UNB) for his research on Developing an experimental platform for evaluating spatial interfaces on mobile devices (Aug. 2017-Sept. 2017).

Summer 2016 Carly Smith (UNB) for her research on Developing a Training Game for Upper Limb

Prosthesis Users. Co-supervised (with Erik Scheme).

Alex Watson (UNB) for his research on Developing a Training Game for Upper Limb

Prosthesis Users. Co-supervised (with Erik Scheme).

Alex Kienzle (UNB) for his research on Visualizing Predictive Analytics Data.

David Hanna (UPEI) for his research on a multi-display framework for games.

Winter 2016 Danielle Brockway (UNB), in the development for a research lab administrative system.

Summer 2015 Courtney Horrocks (UPEI) NSERC USRA student, research on Communicating and

Visualizing Correlation Data for the General Public.

Summer 2014 Igor Margues da Silva (Brazil) in his research and development of collaborative integrated

development environments. Co-supervised with Carl Gutwin, student hosted at the

University of Saskatchewan. Co-supervised (with Erik Scheme).

Nikita Volodin (UPEI) in the development of multi-surface application framework.

Yixin Wang (UPEI) in the development of a crowd-sourcing experiment system.

Harvey Xia (UPEI) in the development of research lab support applications.

Nguyen Cong Van (UPEI) in the development of collaborative video conferencing systems.

James Martin (UPEI) in the development of a zoomable web interface.

Nikita Volodin (UPEI) in the development of multi-surface application framework.

Yixin Wang (UPEI) in the development of a crowd-sourcing application framework.

Harvey Xia (UPEI) in the development of a for a crowd-funding portal.

Ivy Truong (Dalhousie University) in the development of an experimental system to test

new pointing techniques.

Summer 2013 Camila Caraujo (Univ. Federal de Minas Gerais, Brazil) in the development of social mobile

search app.

Maria Clara Pestana (Universidade Federal da Paraíba, Brazil) in the development of

mobile map-based search app.

Lucas Rosa (Instituto Federal Catarinense, Brazil) in the development of a web-based IDE

for large-scale capture of programming behaviour.

BACHELOR (HONOURS THESIS)

2022 Kolton Gagnon (UNB) - Supervised honours thesis on a Web Application Framework for

Multi-surface Applications. Expected May 2022.

Book Sadprasid (UNB) - Supervised honours thesis on a Therapeutic Game of Cystic Fibrosis. Expected May 2022.

2018 Thierry Peltier (UNB) – Supervised honours thesis on Spatial Memory Interfaces for

Mobile Devices. Completed May 2018.

2016 Stanley Petley (UNB) – Co-supervised (with Paul Cook, UNB) honours thesis on Visualizing

Personal Affect from Social Media Streams. Completed May 2016.

Nikita Volodin (UPEI) - Supervising honours thesis project on Analyzing and Identifying

Successful Behaviour in MOBA Games. Completed May 2016.

Jason Wuertz (UPEI) - Supervising honours thesis project on Understanding the Use of Interface Features for Coordination and Collaboration in MOBA Games. Completed May

2016.

MASTERS THESIS (IN PROGRESS)

2021-2022 Joshua Roberts – MCS Student. Supervising research on the effect of music on play

experience. Expected completion Fall 2022.

David Hanna – MCS Student. Supervising research on supporting community game

modifications. Expected completion Fall 2022.

2020-2022 Nick Balcomb – MCS Student. Supervising research on menu designs in mixed reality.

Expected completion Summer 2022.

Alexander LeBlanc – MCS Student. Supervising research on asymmetric game play.

Expected completion Fall 2022.

2019-2021 Jason Chang – MSc.Eng. (EE) – Co-supervised (with Erik Scheme, EE) research on wrist

worn EMG activity detection. Expected completion Summer 2021.

MASTER'S THESIS COMPLETED

2019-2021 Samridhi Pargal – MCS Student. Supervised research on the Simple Mobile Augmented

Reality Toolkit. Completed Dec 2021.

Connor Wilson – MCS Student. Supervised research on how visual design affects perception of credibility of social media new stories. Completed August 2021.

Isayah Vidito – MCS Student. Co-supervised (with Dawn MacIsaac, Computer Science, UNB) research on remote guidance of therapeutic exercise in mixed reality. Completed April 2021.

Benjamin MacPherson – MCS Student. Co-supervised (with Michael Fleming, Computer Science, UNB) research on intelligent adaptation in games. Complete June 2021.

Alex Kienzle – MCS Student. Supervised research on augmented reality-based collaboration. Completed May 2021. 2018 - 2020 Reyhan Pradantyo – MCS Student. Supervised research on modeling the design of antagonists in video games. Completed September 2020. Cassandra Folkins - Masters of Applied Health Research. Co-supervised with Emily Read (Nursing, UNB) research on serious games for promoting careers in nursing homes. Completed May 2020. 2017 - 2019 Vinod Asokan – MCS Student. Supervised research on assistance for pointing-based interactions in augmented reality. Completed fall 2019. Ian Smith – MCS Student. Co-supervised (with Erik Scheme, Institute of Biomedical Engineering, UNB) research on visual feedback during therapeutic activities. Completed summer 2019. 2016 -2018 Jason Wuertz- MCS Student. Supervised research on game awareness widgets. Awarded Best Thesis for the Faculty of Computer Science. Manasi Shah – MCS Student. research on spatial interfaces for mobile devices. Completed fall 2018. (masters report-based student) Jawad Jandali - MCS Student. Co-supervised (with Michael Fleming, UNB) modeling abilities in core game tasks to support game balancing. 2016 - 2017 Aaron Tabor - MCS Student. Co-supervised (with Erik Scheme, UNB) project on training games for upper-limb prosthetics. Completed summer 2017. Awarded Best Thesis for the Faculty of Computer Science. PhD (IN-PROGRESS) 2018-2022 Aaron Tabor - PhD in Computer Science, co-supervised (with Erik Scheme, UNB) project on bio-feedback interventions for positive physiological change. Expected completion 2022. 2019-2023 Ian Smith - PhD in Computer Science, co-supervised (with Erik Scheme, UNB) project on EMG control of everyday interfaces and EMS guidance. Expected completion 2023. 2021-2025 Connor Wilson – PhD in Computer Science project on Computer Science Education. Expected completion 2025. **POST-DOCTORAL FELLOWS**

Alec McLellan, PhD conducting research on building mapping tools for archaeological

software.

2022-2023

2020 - 2022

Cora Woolsey, PhD conducting research on community building in the maker movement, and technology support tools for archaeological field work. Started spin-off company ArchaeoSoft that creates technology for archaeological field work, based on work from post-doctoral researcher.

UNB COMMITTEE MEMBERSHIP

2021 MSc. in Engineering, External Committee member for Ishtar Al-Tahir, UNB. Masters

Thesis: Myoelectric Co-Adaptation: Stochastic and Chaotic, yet Describable. March 2021.

MCS Committee member for Samin Fakharian, Faculty of Computer Science. MCS Thesis: Contextualized Embeddings Encode Knowledge of English Verb-Noun Combination

Idiomaticity. April 2021.

2020 MA Committee (Interdisciplinary Studies) member for Jeff Mundee, Department of Media

Arts and Culture, UNB. Masters Thesis: Conflict in an Online Game Mod Community.

2019 MSc. in Engineering, External Committee member for Zhihao Yu, UNB. Masters Thesis:

FPGA-based IGBT Switching Spike Removal.

PhD Committee member and chair for Eltaher M. El-Shanta, Faculty of Computer Science, UNB. PhD Dissertation title: Software Patterns as Services. (2015-2019)

MCS Committee Chair for Alex Watson, MCS Thesis: Scalable Unified Data Analytics.

MSc Committee member for Deanna Musgrave, Interdisciplinary Studies, MSc. Thesis title: Mindful Multimedia: Connecting Crossmodal Interactions and Aesthetic Experiences in Visual Music.

MSc. In Engineering External Committee member for Neil Chambers, UNB. Masters Thesis: A Dynamic Approach to Balance Assessment using Self-Induced Peturbations.

2018 MCS Committee chair for Dmitry Shcherbakov, Faculty of Computer Science, UNB. MCS

Thesis title: Application of Reinforcement Learning to Autonomous Aircraft Control in

Partially Observable Environments.

2017 PhD Committee member for Christina Dore, Interdisciplinary Studies, UNB. PhD

 $\label{thm:continuous} \textbf{Dissertation title: Assessing and addressing the risk for burnout among hemodialysis}$

nurses working in Quebec.

PhD Examining Committee Member and External Defence Chair for Katerina Biron, Electrical Engineering, UNB. PhD Dissertation title: Towards Improvement of the Dynamic

Performance of Myoelectric Pattern Recognition for Improved Real-Time Usability.

MCS Committee chair for Vaibhavi Kalgutkar, Faculty of Computer Science, UNB. MCS

Thesis title: Android authorship attribution through string analysis.

2016 M.Sc. in Engineering, Committee member for Gillian Phillips, Faculty of Engineering, UNB.

MSc. Thesis title: Pairwise Attribute Noise Detection Algorithm for Detecting Noise in

Surface Electromyography Recordings.

4.7 b) EXTERNAL EXAMINER FOR Ph.D THESIS

2021 External Examiner for Milad Soroush, PhD in Management Sciences, University of

Waterloo. The Impacts of Gameful and Interactive Technologies on Hindering or

Promoting Self-regulation. March 2021.

4.7 c) EXTERNAL EXAMINER FOR MASTER'S THESIS

2017 External Examiner for Rui Pan, M.Sc. in Interactive Arts and Technology, Simon Fraser

University. Thesis title: First-Person Video Chat for Couples at a Distance. July 2017.

External Examiner for Radhika Gopi, M.Sc. in Computer Science, University of Regina. Thesis title: Twist: A Mobile Approach for Searching and Exploring within Twitter. May

2017.

4.8 PUBLICATION OR PRODUCTION OF BOOKS, ARTICLES, FILMS, ETC. THAT ADVANCE TEACHING EFFECTIVENESS

N/A

4.9 AWARD HONOURS FOR TEACHING

N/A

4.10 ANY OTHER EQUIVALENT ACCOMPLISHMENTS

SUPERVISION OF FULL TIME RESEARCH ASSISTANTS/PROGRAMMERS

2022 Jeff Mundee research assistant for An Al Approach to Electronic Gaming Machine (EGM)

Game Modeling: Reward Function. In collaboration with IGT Canada Solutions UL

ArchaeoSoft, Inc (Moncton, NB).

David Milley research assistant for Understanding the Usability of Digital Field notes tool

for archaeologists. In collaboration with ArchaeoSoft, Inc (Fredericton, NB).

Thomas Boles research assistant for Understanding the Usability of Digital Field notes tool

 $for \ archaeologists. \ In \ collaboration \ with \ ArchaeoSoft, \ Inc \ (Fredericton, \ NB).$

Andrew Vissers developer for a Digital Field notes tool for archaeologists. In collaboration

with ArchaeoSoft, Inc (Fredericton, NB).

Mattias Schroer developer for a Digital Field notes tool for archaeologists. In collaboration

with ArchaeoSoft, Inc (Fredericton, NB).

Jacob Beaumont developer for a Digital Field notes tool for archaeologist	
collaboration with ArchaeoSoft, Inc (Fredericton, NB).	

2020 Siddharth Yadav in Development of a Mobile Interface for the presentation of health data

to non-expert stake holders in collaboration with VeroSource, Inc (Fredericton, NB).

Khanjan Barad in Development of a Mobile Interface for the presentation of health data to non-expert stake holders in collaboration with VeroSource, Inc (Fredericton, NB).

2016 Aakash Shukla in the research and development of the Nursing Central mobile app (Jan.

2016-May 2016) at UNB.

2014 - 2015 Nolan Phillips, BSc in the development of a crowdsourcing solution to identify sales leads.

In collaboration with nGauge, Inc., supported by NSERC Engage grant. (Sept. 2014 – Nov.

2015) at UPEI.

Nguyen Cong Van, BSc in the development of a video communication system in

collaboration with XMG, Inc (Sept. 2014-Jan. 2015) at UPEI.

Peter Workman, BSc in the development of a virtual reality desktop computing system

(Mar. 2014-July 2014).

SECTION 5 | **RESEARCH, SCHOLARLY OR CREATIVE ACTIVITY**

5.1 ARTICLES PUBLISHED OR ACCEPTED FOR PUBLICATION IN REFEREED JOURNALS

FRONTIERS 2021 Reyhan Pradantyo, Max V. Birk, Scott Bateman. How the Visual Design of Video Game

Antagonists Affects Perception of Morality. Frontiers in Computer Science, Accepted.

https://doi.org/10.3389/fcomp.2021.531713

FRONTIERS 2020 Jawad Jandali Refai, Scott Bateman, Michael W. Fleming. External Assistance Techniques that

Target Core Game Tasks for Balancing Game Difficulty. Frontiers in Computer Science, Issue 2,

17 pages. https://doi.org/10.3389/fcomp.2020.00017

IJHCS 2019 Barrett Ens, Joel Lanir, Anthony Tang, Scott Bateman, Gun A Lee, Thammathip Piumsomboon,

Mark Billinghurst. Revisiting Collaboration through Mixed Reality: The Evolution of

Groupware-Supplemental Visualization. International Journal of Human-Computer Studies. In

press. Available online May 25, 2019. https://doi.org/10.1016/j.ijhcs.2019.05.011

TNSRE 2018 Aaron Tabor, Scott Bateman, Erik Scheme. Evaluation of Myoelectric Control Learning using

Multi-Session Game-Based Training. IEEE Transactions on Neural Systems and Rehabilitation

Engineering. Accepted, to be published. https://doi.org/10.1109/TNSRE.2018.2855561

TVCG 2015 Dandan Huang, Melanie Tory, Bon Adriel Aseniero, Lyn Bartram, Scott Bateman, Sheelagh

Carpendale, Anthony Tang, Robert Woodbury. Personal Visualization and Personal Visual

Analytics. IEEE Transactions on Visualization and Computer Graphics. Volume 21, Issue 3, March, 2015. DOI: http://dx.doi.org/10.1109/TVCG.2014.2359887

IJHCS 2013 Scott Bateman, Regan L. Mandryk, Carl Gutwin, Robert Xiao. Analysis and Comparison of

Target Assistance Techniques for Relative Ray-Cast Pointing. International Journal of Human-

Computer Studies. Volume 71, Issue 5, May 2013, 511-532.

http://dx.doi.org/10.1016/j.ijhcs.2012.12.006

ILE 2009 Jelena Jovanovic, Dragan Gasevic, Carlo Torniai, Scott Bateman, Marek Hatala. The Social

Semantic Web in Intelligent Learning Environments-State of the Art and Future Challenges. Interactive Learning Environments Journal, Volume 17, Number 4. 2009. pp. 273–308.

5.2 REFEREED CONFERENCE PROCEEDINGS

CHI 2021 Aaron Tabor, Scott Bateman, Erik Scheme, Book Sadprasid, m.c. schraefel. Designing Peripheral

Breathing Guidance. In the Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2021). Yokohoma, Japan. 2021. 1-13. DOI: 10.1145/3411764.3445388.

EMBC 2020A Ian Smith, S. Gill, Scott Bateman, Erik Scheme. "Comparison of Feedback Approaches to

Improve Training in Partial Weight-Bearing", 42nd Annual International Conference of the IEEE

Engineering in Medicine and Biology Society, Montreal, Canada, July 20-24, 2020. DOI:

10.1109/EMBC44109.2020.9176207

EMBC 2020B Jason Chang, Angkoon Phinyomark, Scott Bateman, Erik Scheme. "Wearable EMG-Based

Gesture Recognition Systems During Activities of Daily Living: An Exploratory Study", 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society,

Montreal, Canada, July 20-24, 2020. DOI: 10.1109/EMBC44109.2020.9176615

CHIPlay 2020 Cassandra Folkins, Jeff Mundee, Emily Read, Max V. Birk, Scott Bateman. A Serious Game for

Promoting Positive Attitudes Towards Nursing Homes Among Youth. In Proceedings of the ACM International Symposium on Human-Computer Interaction in Play. November 2020,

Ottawa, Canada, 12 pages.

ISMAR 2020 Martin Feick, Scott Bateman, Anthony Tang, Nicolai Marquardt, Andre Miede. TanGi: Tangible

Proxies for Embodied Object Exploration and Manipulation in Virtual Reality. In Proceedings of IEEE International Symposium on Mixed and Augmented Reality (ISMAR) 2020. November

2020, Brazil. 14 pages.

GI 2020 Vinod Asokan, Scott Bateman, Anthony Tang. Assistance for Target Selection in Mobile

Augmented Reality. In the Proceedings of Graphics Interface 2020. May 2020, Toronto,

Canada. 12 pages.

CHI 2019 Jason Wuertz, Max V. Birk, Scott Bateman. Healthy Lies: The Effects of Misrepresenting Player

Health Data on Experience, Behavior, and Performance. In the Proceedings of the ACM Conf.

	12 pages. https://doi.org/10.1145/3290605.3300549
CHI 2018	Jason Wuertz, Sultan A Alharthi, William A Hamilton, Scott Bateman, Carl Gutwin, Anthony Tang, Zachary Toups, Jessica Hammer. A Design Framework for Awareness Cues in Distributed Multiplayer Games. In the Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2018). April 2018, Montreal, Canada. 243-257. https://doi.org/10.1145/3173574.3173817
CHI 2017A	Aaron Tabor, Scott Bateman, Erik Scheme, David Flatla, Kathrin Gerling. Designing Game-Based Myoelectric Prosthesis Training. In the Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2017). May 2017, Denver, USA. 1352-1363. https://doi.org/10.1145/3025453.3025676
CHI 2017B	Jason Wuertz, Scott Bateman, Anthony Tang. Why Players use Pings and Annotations in Dota 2. In the Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2017). May 2017, Denver, USA. 1978-1982. https://doi.org/10.1145/3025453.3025967
CSCW 2017	Carl Gutwin, Scott Bateman, Gaurav Arora, Ashley Coveney. Looking Away and Catching Up: Dealing with Attentional Disconnection in Synchronous Groupware. In the Proceedings of the ACM Conf. on Computer Supported Cooperative Work and Social Software (CSCW 2017). February 2017, Portland, USA. 2221-2235. https://doi.org/10.1145/2998181.2998226
DIS 2017	Anthony Tang, Omid Farkoufar, Carman Neustaedter, Scott Bateman. Collaboration in 360° Videochat: Challenges and Opportunities. In the Proceedings of the ACM Conf. on Designing Interactive Systems (DIS 2017). June 10-14, 2017. Edinburgh, UK. 1327-1339. https://doi.org/10.1145/3064663.3064707
MEC 2017	Aaron Tabor, Scott Bateman, Erik Scheme. Quantifying Muscle Control in Myoelectric Training Games. In the Proceedings of the Myoelectric Control Symposium (MEC 17). August 15-18, 2017. Fredericton, NB, Canada. 4 pages.
CHI 2016	Omid Farkourfar, Kevin Ta, Richard Tang, Scott Bateman, Tony Tang. Stabilized Annotations for Mobile Remote Assistance. In the Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2016). May 2016, San Jose, USA. 1548-1560. http://dx.doi.org/10.1145/2858036.2858171
DIS 2016	Brennan Jones, Kody Dillman, Richard Tang, Anthony Tang, Ehud Sharlin, Lora Oehlberg, Carman Neustaedter, Scott Bateman. Elevating Communication, Collaboration, and Shared Experiences in Mobile Video through Drones. In the Proceedings of the ACM SIGCHI Conference on Designing Interactive Systems (DIS 2016). June 4-8, 2016, Brisbane, Australia. 1123-1135. http://dx.doi.org/10.1145/2901790.2901847
CHIR 2016	Scott Bateman, Carl Gutwin. (The Lack of) Privacy Concerns with Sharing Web Activity at Work and the Implications for Collaborative Search. In the Proceedings of the ACM SIGIR Conf. on

on Human Factors in Computing Systems (CHI 2019). May 2019, Montreal, Canada. Paper 319,

	Human-Information Interaction and Retrieval (CHIIR 2016). March, 2016, Chapel Hill, USA. 43-52. DOI: http://dx.doi.org/10.1145/2854946.2854977
CHI 2015A	Brennan Jones, Anna Witcraft, Scott Bateman, Carman Neustaedter, Anthony Tang. Mechanics of Camera Work in Mobile Video Collaboration. In the Proceeding of the ACM Conf. on Human Factors in Computing Systems (CHI 2015). April 2015, Seoul, Korea. 957-966.
CHI 2015B	Richard Tang, Anthony Tang, Scott Bateman, Xing-Dong Yang, Joaquim Jorge. Physio@Home: Exploring visual guidance and feedback techniques for physiotherapy exercises. In the Proceeding of the ACM Conf. on Human Factors in Computing Systems (CHI 2015). April 2015, Seoul, Korea. 4123-4132.
EICS 2015	Aditya Nittala, Xing-Dong Yang, Scott Bateman, Ehud Sharlin and Saul Greenberg. PhoneEar: Interactions for Mobile Devices that Hear High-Frequency Sound-Encoded Data. In the Proceedings of the 7th ACM SIGCHI Symposium on Engineering Interactive Computing Systems - EICS'15. (Duisburg, Germany), ACM Press, 6 pages, June 23-26.
CHIPlay 2014	Jared Cechanowicz, Carl Gutwin, Scott Bateman, Regan Mandryk, Ian Stavness. Improving Player Balancing in Racing Games. In the Proceedings of The ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY), October 19th-22nd, 2014. Toronto, Ontario, Canada. 47-56.
CHI 2014	Rodrigo Vicencio-Moreira, Regan Mandryk, Carl Gutwin, Scott Bateman. The Effectiveness (or Lack Thereof) of Aim-Assist Techniques in First-Person Shooter Games. Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2014). April 26th-May 1st, 2014. Toronto, ON, Canada. 937-946.
CSCW 2013	Scott Bateman, Carl Gutwin, Gordon McCalla. Supporting Loosely-Coupled Information Seeking in Tightly-Knit Groups using WebWear. Proceedings of the ACM Conf. on Computer Supported Cooperative Work and Social Software (CSCW 2013). Feb. 23rd-27th, 2013. San Antonio, TX, USA. 955-966.
AIED 2013	Graham Erickson, Stephanie Frost, Scott Bateman, Gordon McCalla. Using the Ecological Approach to Create Simulations of Learning Environments. Proceedings of the International Conference on Artificial Intelligence in Education (AIED 2013). July 9-13th, 2013. pp 411-420.
CHI 2012	Scott Bateman, Jaime Teevan, Ryen White. The Search Dashboard: How Reflection and Comparison Impact Search Behavior. Proceedings of the ACM Conf. on Human Factors in Computing Systems (CHI 2012). May 1-5th, 2012. Austin, TX, USA. pp. 1785-1794.
UIST 2011	David Flatla, Carl Gutwin, Lennart Nacke, Scott Bateman, Regan Mandryk. Calibration Games: Making Calibration Tasks Enjoyable by Adding Motivating Game Elements. Proceedings of ACM Conference on User Interface Software Technology (UIST 2011), Santa Barbara, California. October 16-19, 2011. pp. 403-412.

CHI 2011	Scott Bateman, Tadeusz Stach, Regan L. Mandryk, Carl Gutwin. Using Target Assistance for Subtly Balancing Competitive Play. Proceedings of ACM Conf. on Human Factors in Computing Systems (CHI 2011). May 7-12th, 2011. Vancouver, Canada. pp. 2355-2364. Honorable Mention for Best Paper Award.
GI 2011	Scott Bateman, Andre Doucette, Robert Xiao, Carl Gutwin, Regan Mandryk, and Andy Cockburn. Effects of View, Input Device, and Track Width on Video Game Driving. Proceedings of Graphics Interface, May 15-18, 2011. St. John's, Canada. pp. 207-14
CHI 2010	Scott Bateman, Regan L. Mandryk, Carl Gutwin, Aaron Genest, David McDine, Christopher Brooks. Useful Junk? The Effects of Visual Embellishments on the Comprehension and Memorability of Charts. Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2010). April 10-15, 2010. Atlanta, GA, USA. pp. 2573-2582. Best Paper Award.
Group 2009	Group 2009 Scott Bateman, Michael Muller, Jill Freyne. Personalized Retrieval in Social Bookmarking. Proceedings of the ACM Conference on Supporting Group Work (Group 2009). May 10 - 13, 2009. Sanibel Island, Florida. pp. 91-94.
EICS 2009	Scott Bateman, Carl Gutwin, Nathaniel Osgood, Gordon McCalla. Interactive Usability Instrumentation. Proceedings of the ACM Symposium on Engineering Interactive Computing Systems (EICS 2009). July 14-17, 2009. Pittsburgh, PA. pp. 45-54.
HT 2008	Scott Bateman, Carl Gutwin, Miguel Nacenta. Seeing Things in the Clouds: The Effect of Visual Features on Tag Cloud Selections. Proceedings of ACM Conference on Hypertext and Hypermedia (HT 2008). Pittsburgh, US. June 16-20, 2008. pp. 193-202.
ICSC 2008	Carlo Torniai, Jelena Jovanovic, Dragan Gasevic, Scott Bateman, Marek Hatala. Leveraging Folksonomies for Ontology Evolution in E-learning Environments. Proceedings of IEEE International Conference on Semantic Computing (ICSC 2008). Santa Clara, CA, USA. August 4-7, 2008. pp. 206-213.
ICALT 2008	Carlo Torniai, Jelena Jovanovic, Dragan Gasevic, Scott Bateman, Marek Hatala. E-Learning Meets the Social Semantic Web. Proceedings of The 8th IEEE International Conference on Advanced Learning Technologies (ICALT 2008). Santander, Cantabria, Spain. July 1-5, 2008. pp. 389-393.
ITS 2008	Jelena Jovanovic, Carlo Torniai, Dragan Gasevic, Scott Bateman, Marek Hatala. Leveraging the Social Semantic Web in Intelligent Tutoring Systems. Proceedings of the Conference on Intelligent Tutoring Systems (ITS 2008). Montreal, Canada. June 23-27, 2008. pp. 563-572
WWW 2007	Scott Bateman, Christopher Brooks, Gordon McCalla, Peter Brusilovsky. Applying Collaborative Tagging to E-Learning. Workshop Proc. of Tagging and Metadata for Social Information Organization in conjunction with the International World Wide Web Conference (WWW 2007), May 8, 2007. Banff, Canada. 7 pages.

AH 2006 Scott Bateman, Christopher Brooks, Gordon McCalla. Collaborative Tagging Approaches for

Ontological Metadata in Adaptive E-Learning Systems. Workshop Proceedings of the 4th International Conference on Adaptive Hypermedia and Adaptive Web-Based Systems (AH

2006), June 20, 2006. Dublin, Ireland. pp. 3-12.

LORN 2006A Scott Bateman, Rosta Farzan, Peter Brusilovsky, Gordon McCalla. OATS: The Open Annotation

and Tagging System. Proceedings of the Third Annual International Scientific Conference of the Learning Object Repository Research Network (LORNET 2006). Montreal, November 8-10,

2006. 10 pages.

ITS 2006 Christopher Brooks, Scott Bateman, Gordon McCalla, Jim Greer. Applying the Agent Metaphor

to Learning Content Management Systems and Learning Object Repositories. Proceedings of the 8th International Conference on Intelligent Tutoring Systems (ITS 2006). June 26-30, 2006.

Jhongli, Taiwan. pp. 808-810.

LORN 2006B Christopher Brooks, Scott Bateman, Wengang Liu, Gordon McCalla, Jim Greer, Dragan Gasevic,

Timmy Eap, Griff Richards, Khaled Hammouda, Shady Shehata, Mohamed Kamel, Fakhri Karray, Jelena Jovanovic. Issues and Directions with Educational Metadata. Proceedings of the Third Annual International Scientific Conference of the Learning Object Repository Research

Network (LORNET 2006), Montreal, PQ, November 8-10, 2006. 9 pages.

5.3 a) BOOKS

N/A

5.3 b) PART(S) OF BOOKS

SWEL 2009 Christopher Brooks, Scott Bateman, Jim Greer, Gord McCalla. Lessons Learned using Social

and Semantic Web Technologies for E-Learning. Book Chapter 14 in Semantic Web Technologies for e-Learning, Vol. 4 (The Future of Learning). ISBN: 978-1-60750-062-9,

November 2009. pp. 260 - 278.

5.4 EDITORIAL RESPONSIBILITIES

2021 ACM Conference on Human Factors in Computing Systems (CHI 2021) – Associate Chair –

responsible for soliciting reviewers for each of 18 research papers, guiding the review process, writing meta-reviews, providing a recommendation and attending the virtual PC meeting.

December 6-7, 2020.

2019 ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2019) —

Associate Chair – solicited reviewers, provided meta-reviews and made acceptance decisions

on 9 papers

ACM Conference on Designing Interactive Systems (DIS 2019) – Associate Chair - responsible for soliciting reviewers for each of 10 research papers, guiding the review process, writing meta-reviews, providing a recommendation and attending the virtual PC meeting.

ACM Conference on Human Factors in Computing Systems (CHI 2019) – Associate Chair – responsible for soliciting reviewers for each of 17 research papers, guiding the review process, writing meta-reviews, providing a recommendation and attending the virtual PC meeting. December 6-7, 2018.

2014 - 2019

Member of the Editorial Board (Associate Editor) of the International Journal of Human-Computer Studies (IJHCS). Solicit reviewers, provide (meta-) reviews, make acceptance recommendations, and participate in board meetings (5 years).

2018

ACM Conference on Human Factors in Computing Systems (CHI 2018) — Associate Chair — responsible for soliciting reviewers for each of 20 research papers, guiding the review process, writing meta-reviews, providing a recommendation and attending the PC meeting in Montreal, PQ.

ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2018) — Associate Chair — solicited reviewers, provided meta-reviews, and made acceptance decisions on 8 papers.

2017

ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2017) — Associate Chair — solicited reviewers, provided meta-reviews, and made acceptance decisions on 10 papers.

2016

ACM Conference on Human Factors in Computing Systems (CHI 2016) – Associate Chair – responsible for soliciting reviewers for each of 24 research papers, guiding the review process, writing meta-reviews, providing a recommendation, and attending the PC meeting in San Jose, California.

Graphics Interface (GI 2016) – Associate Chair. Find reviewers and provide reviews & metareviews for 5 papers, participate in virtual PC meeting to make acceptance decisions.

ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2016) — Associate Chair — solicited reviewers, provided meta-reviews, and made acceptance decisions on 10 papers.

2015

ACM Conference on Human Factors in Computing Systems (CHI 2015) – Associate Chair – responsible for soliciting three reviewers for each of 11 research papers, guiding the review process, writing meta-reviews, providing a recommendation, and attending the PC meeting in Seoul, Korea.

Graphics Interface (GI 2015) – Associate Chair. Find reviewers and provide reviews & metareviews for 7 papers, participate in virtual PC meeting to make acceptance decisions.

ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2015) — Associate Chair — solicited reviewers, provided meta-reviews and made acceptance decisions on 11 papers.

2014

ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2014) – Associate Chair – solicited reviewers, provided meta-reviews and made acceptance decisions on 7 papers.

Graphics Interface (GI 2014) – Associate Chair. Find reviewers and provide reviews & metareviews for 7 papers, participate in PC meeting to make acceptance decisions.

ACM Conference on Human Factors in Computing Systems (CHI 2014) - Work-In Progress Associate Chair – solicited reviewers, provided meta-reviews and made acceptance decisions for 6 short papers.

2009

ACM Conference on Human Factors in Computing Systems (CHI 2009) - Work-In Progress Associate Chair – solicited reviewers, provided meta-reviews and made acceptance decisions for 10 short papers.

5.5 CREATIVE ACCOMPLISHMENTS

N/A

5.6 NON-REFEREED (OR LIGHTLY REVIEWED) PUBLICATIONS

CHI EA 2022

Christal Clashing, Maria Fernanda Montoya Vega, Ian Smith, Joe Marshall, Leif Oppermann, Paul H Dietz, Mark Blythe, Scott Bateman, Sarah Jane Pell, Swamy Ananthanarayan, and Florian Floyd Mueller. 2022. Splash! Identifying the Grand Challenges for WaterHCI. In Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22). Association for Computing Machinery, New York, NY, USA, Article 78, 1-6. https://doi.org/10.1145/3491101.3503723

CHI EA 2021

m.c. schraefel, Josh Andrés, Aaron Tabor, Scott Bateman, Abby Wanyu Liu, Mike Jones, Kai Kunze, Elizabeth Murnane, and Steeven Villa. 2021. Body As Starting Point 4: Inbodied Interaction Design for Health Ownership. In Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21). Association for Computing Machinery, New York, NY, USA, Article 85, 1–5. DOI: https://doi.org/10.1145/3411763.3441335

CHI EA 2020

Aaron Tabor, Ian C. J. Smith, Scott Bateman, Josh Andres, Andrés Mejía Figueroa, and m.c. schraefel. 2020. 3rd Body As Starting Point Workshop: Exploring Themes for Inbodied Interaction Research and Design. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA 20). Association for Computing Machinery, New York, NY, USA, 1-8. https://doi.org/10.1145/3334480.3375170

Ubicomp 2019A

Connor Wilson, Aaron Tabor, Scott Bateman. Diversifying Pro-Environmental Behaviours Redesigning Applications to Incorporate Environmental "Spill-over". In the Proceedings of the Workshops of Ubicomp 2019. London, UK. Sept. 9, 2019. 4 pages.

Ubicomp 2019B Aaron Tabor, Connor Wilson, Scott Bateman. Designing to Support Uncomfortable Breathing Exercises: Ethical Considerations. In the Proceedings of the Workshops of Ubicomp 2019.

London, UK. Sept. 9, 2019. 4 pages.

BigVis 2019 Alex Watson, Scott Bateman, Suprio Ray. PySnippet: Accelerating Exploratory Data Analysis in Jupyter Notebook through Facilitated Access to Example Code. In the Proceedings of the Workshops of the EDBT/ICDT 2019 Joint Conference (EDBT/ICDT 2019). Lisbon, Portugal, March 26, 2019. 4 pages. http://ceur-ws.org/Vol-2322/BigVis_8.pdf

> Martin Feick, Anthony Tang, and Scott Bateman. 2018. Mixed-Reality for Object-Focused Remote Collaboration. In The 31st Annual ACM Symposium on User Interface Software and Technology Adjunct Proceedings (UIST '18 Adjunct). ACM, New York, NY, USA, 63-65. DOI: https://doi.org/10.1145/3266037.3266102

Tech Report 2018 Scott Bateman, Carl Gutwin, Manasi Shah, Nathaniel Brewer. Supporting Visual Search and Spatial Memory in a Mobile Application Launcher. University of New Brunswick Technical Report. TR18-240. October 2018.

Sci. Atlantic 2017 Manasi Shah, Nathaniel Brewer, Scott Bateman, Carl Gutwin. SpaceLaunch: A Faster App Launcher that Leverages Spatial Memory. Abstract presented at the Science Atlantic Computer Science Conference. Fredericton, NB. Oct. 13th-14th, 2017. My student Shah was awarded the Science Communication Award.

Sci. Atlantic 2017 Nathaniel Brewer, Scott Bateman. The Development of SpaceLaunch: A Faster App Launcher Developed in Unity. Abstract presented at the Science Atlantic Computer Science Conference. Fredericton, NB. Oct. 13th-14th, 2017. My student Brewer was awarded 2nd best oral presentation.

Sci. Atlantic 2017 Jason Wuertz, Scott Bateman. Understanding the Design of Non-Verbal Communication Tools through Studying Games. Abstract presented at the Science Atlantic Computer Science Conference. Fredericton, NB. Oct. 13th-14th, 2017.

Sci. Atlantic 2017 Jawad Refai, Scott Bateman, Michael Fleming. Assistance Techniques in Video Games. Abstract presented at the Science Atlantic Computer Science Conference. Fredericton, NB. Oct. 13th-14th, 2017

Sci. Atlantic 2017 Ian Smith, Santinder Gill, Erik Scheme, Scott Bateman. Improving gait through sensored cane feedback. Abstract presented at the Science Atlantic Computer Science Conference. Fredericton, NB. Oct. 13th-14th, 2017.

CHI Play WIP 2016 Aaron Tabor, Scott Bateman, Erik Scheme. Game-Based Myoelectric Training. In the Extended Abstracts of the ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2016). October 16-19, 2016. Austin, TX. 299-306. https://doi.org/10.1145/2968120.2987731

UIST 2018

Sci. Atlantic 2015 Jason Wuertz, Nikita Volodin, Scott Bateman. DOTA 2 as Platform for Human-Computer

Interaction Research. Abstract presented at the Science Atlantic Computer Science

Conference. Wolfville, NS. Oct. 23rd-25th, 2015. My student (Wuertz) was awarded 2nd best

oral presentation.

Sci. Atlantic 2014 Nikita Volodin, Scott Bateman, Carl Gutwin. A Flexible Programming Framework for Multi-

Display Environments. Abstract presented at the Science Atlantic Computer Science

Conference. Saint John, NB. Oct. 3rd-5th, 2014. My student Volodin was awarded 2nd best

oral presentation.

CHI-WIP 2014 Richard Tang, Hesam Alizadeh, Anthony Tang, Scott Bateman, Joaquim Jorge. Physio@

Home: design explorations to support movement guidance. In the Extended Abstracts on

Human Factors in Computing Systems (CHI'14), 1651-1656.

CSCW 2012 Expressiveness Matters in Command & Control Visualization. Proceedings of the

Collaboration and Crisis Informatics Workshop, held at the 2012 ACM Conference on Computer Supported Collaborative Work (CSCW 2012). February 11-15th, 2012, Seattle,

WA., USA. 4 pages.

HCIR 2011 Scott Bateman, Carl Gutwin, Gordon McCalla, Ryen White. Collective Information Seeking:

Supporting Search with Low-Cost Activity Sharing and Collaboration. Proceedings of the Fifth Workshop on Human-Computer Interaction and Information Retrieval (HCIR 2011). Oct.

2011. Mountain View, CA, USA. 4 pages.

CSCW DC 2010 Scott Bateman. (2010) Using Group Interaction History in the Wild. Extended Proceedings of

the Doctoral Colloquium of the 2010 ACM Conference on Computer Supported Collaborative

Work (CSCW 2010). February 6 -10, 2010. Savannah, USA. pp. 523 - 524.

HCI-ED 2010 Christopher Brooks, Scott Bateman, Jim Greer, Carl Gutwin. Improving the Video Timeline for

Educational Video Content. In the Proceedings of the Workshop on HCI and Education, held at the ACM Conference on Human Factors in Computing Systems (CHI 2010), April 10-15,

2010. Atlanta, GA, USA. 4 pages

Tech Rep. 2009 Scott Bateman, Regan Mandryk, Carl Gutwin, Robert Xiao. Investigation of Targeting-

Assistance Techniques for Distant Pointing with Relative Ray Casting. Technical Report 3-2009, Department of Computer Science, University of Saskatchewan. 8 pages. Published

December 14, 2009.

ITS-W 2008 Scott Bateman, Christopher Brooks, Gord McCalla, Jim Greer. Learning Object Metadata:

From the locally prescribed to the socially derived. In the Workshop for Semantic-Web Resource Repository Design, Search, and Management. Conference on Intelligent Tutoring

Systems (ITS 2008). June 23, 2008. Montreal, Canada. 10 pp.

SWUI 2008 Scott Bateman, Jelena Jovanovic, Carlo Torniai, Dragan Gasevic, Marek Hatala. Combined

Usage of Ontologies and Folksonomies in E-learning Environments. In the Proceedings of the

Semantic Web User Interaction Workshop held in conjunction with ACM Conference on Human Factors in Computing Systems (CHI 2008). Florence, Italy. April 5, 2008. 4 pages.

LORNET 2006C

Scott Bateman, and Gordon McCalla Collective Intelligence in E-Learning. Technical System Demonstration in the Demo Competition at the International Scientific Conference of the Learning Object Repository Research Network (LORNET 2006). Montreal, Canada. November 8-10, 2006. Awarded 1st Place in the Demo Competition.

OTHER SUPERVISED STUDENT CONTRIBUTIONS

CHI Play SDC 2016

Aaron Tabor, Alex Kienzle, Carly Smith, Alex Watson, Jason Wuertz, David Hanna. The Fall of Momo: A Myo-Electric Controlled Game to Support Research in Prosthesis Training. Pal and demonstration accepted in the Student Design Competition Track at The ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2016). October 16-2016. Austin, TX. ACM Press. *Awarded Best Game in the Student Demo Competition*.

5.7 a) MANUSCRIPTS SUBMITTED

N/A

5.7 b) MANUSCRIPTS IN PREPARATION

Six manuscripts in preparation for various journal or conference submissions.

5.8 PAPERS PRESENTED AT PROFESSIONAL AND TECHNICAL MEETINGS

Note: All conference publications listed above result in an invited presentation at the conference. In all cases first authors of the above conference papers presented at the conference.

5.9 PRESENTATION OF SEMINARS, CLINICS, WORKSHOPS

2022 Research in the UNB HCI Lab: The First 7 years. Invited talk presented to the Loki Research group at Inria, Lille, France. July 4, 2022.

Can video games inform the design of rehabilitation technology? Invited talk in the Institute of Biomedical Engineering seminar series. UNB, Fredericton, NB. November 14,

2018.

ENGspire. Public panel presentation on path to a research career. Invited by the Atlantic Student Research Journal. Fredericton, NB. October 20, 2018.

Sketching for System Design. Public tutorial presented at the NextGenUX Workshop and cast live online. Fredericton, NB. April 19-20, 2018.

2017 Research in the UNB HCI Lab. Public Seminar presented to the School of Mathematical and Computational Sciences at the University of Prince Edward Island, Nov. 27, 2017.

Serious-ification: Doing "Serious" HCI Research... Based on Video Games. Invited talk for the Dept. of Computer Science at the University of Calgary. May 2017.

2015 An NSERC Engage Success Story: A collaboration between UPEI and nGauge, Inc.
Presentation to the NSERC Atlantic Advisory Committee. May 2015, Charlottetown, PEI.

Cloud Computing. Presentation and panel discussion for the Charlottetown Chapter of Canada's IT Professional Society (CIPS) meeting April 2015.

2014 Why PEI for IT? Presentation and panel discussion for the Charlottetown Chapter of Canada's IT Professional Society (CIPS) meeting April 2014.

2013 Social Feedback: Designing Interfaces for Learning from Shared Interaction History.

Department of Computer Science Seminar, University of Calgary, Calgary, AB, June
18th, 2013.

The Science of Fun Interactions. Invited talk presented to Spielo International, Moncton, NB, January 25th, 2013.

Social Feedback: Learning from Shared Interaction History. Invited talk presented to the Interactive Information Retrieval Group at University of North Carolina, Chapel Hill, N.C., November 5th, 2012.

Social Feedback: Learning from Shared Interaction History to Support Information Seeking on the Web. Department of Computer Science Seminar, University of Saskatchewan, Saskatoon, SK, August 2nd, 2012.

Social Feedback: Learning from Shared Interaction History. Invited talk presented at Microsoft Research, Redmond, WA, April 5th, 2012.

Target Assistance and Social Feedback: Two Approaches for Improving Performance with Interactive Systems. Invited talk presented at AT&T Research, Florham Park, NJ, March 26th, 2012.

Social Feedback: Learning from Shared Interaction History. Invited talk presented to the Collaborative User Experience Group, IBM Research, Cambridge, MA, January 30th, 2012.

2010 What I Wish I Had Known Before I Started as a Graduate Student Sessional Instructor. Invited Panelist. Presented to the Graduate Student Teaching and Learning Workshop, University of Saskatchewan, September 1, 2010.

Effectively Describing and Using Web Resources Invited talk presented to the PAWS Lab, at the University of Pittsburgh, April 2, 2007.

2007

2007 The Web After 20 Years: A Convergence or Divergence of Ideas. Invited talk presented at the Saskatchewan Interactive Conference, Saskatoon, Saskatchewan, March 8, 2007.

2006

How Can We Describe and Use Digital Learning Materials More Effectively? Invited talk presented to Adaptive Web Systems Group at the University of Leeds, UK, September 5, 2006.

5.10 CONSULTING ACTIVITIES, PROFESSIONAL SERVICES TO GOVERNMENTAL, PROFESSIONAL & INDUSTRIAL ASSOCIATIONS, EDUCATION INSTITUTIONS, GRANTING AGENCIES, ETC.

EXTERNAL AWARD COMMITTEE MEMBER

2022	Selection committee member for the CHCCS/SCDHM Graphics Interface Early Career
	Researcher Award. January 2022.

Selection committee member for the CHCCS/SCDHM Graphics Interface Early Career Researcher Award. February 2021.

EXTERNAL PROGRAM REVIEWER

2018 Academic External Reviewer for the Bachelor of Information Technology in Interactive Media and Design Program, Carleton University, November 2018.

EXTERNAL GRANT REFEREEING

NSERC Discovery NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 3 applications.

Canadian Foundation for Innovation. CFI John R. Evan's Leaders Fund. Reviewed an application of a Canadian faculty member.

NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 3 applications.

NSERC Alliance Grant Review. Reviewed Canadian faculty member's application to NSERC.

2020 NSERC I2I Grant Review. Reviewed Canadian faculty member's application to NSERC.

MITACS Accelerate Grant Review. Reviewed applications for a Canadian faculty member's

application to the MITACS Accelerate programme. 3 applications.

NSERC Collaborative Research and Development Grant Review. Reviewed applications for a

Canadian faculty member's application to the NSERC CRD programme. 1 application.

MITACS Accelerate Grant Review. Reviewed applications for a Canadian faculty member's application to the MITACS Accelerate programme. 2 applications.

NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 2 applications.

2018 MITACS Accelerate Grant Review. Reviewed applications for a Canadian faculty member's application to the MITACS Accelerate programme. 2 applications.

NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 2 applications.

2017 NSERC Strategic Partnership. Reviewed application to NSERC's Strategic Partnership

programme. 1 application.

NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 1 application.

2016 MITACS Converge Grant Review. Reviewed applications for a Canadian faculty member's application to the MITACS Converge programme. 1 application.

2016 MITACS Accelerate Grant Review. Reviewed applications for a Canadian faculty member's application to the MITACS Accelerate programme. 1 application.

2016 NSERC Discovery Grant Review. Reviewed application for a Canadian faculty member's application to the Discovery Grant programme. 1 application

2014 Canadian Foundation for Innovation Grant Review Committee Member. Reviewed 6 applications for major infrastructure grants (\$2-\$16 million) for several Canadian Universities. Attended and discussed applications with the review committee in Toronto (Sept. 2014).

5.11 AWARDS (GRANTS, CONTRACTS, FELLOWSHIPS)

2020 - 2025	NSERC Discovery Grant. Mixed Reality Groupware. (5 years; \$205,000 total; 100% of award)

- 2021 2023 NBIF Lab-to-Market for a Digital Field Notes Tool for Archaeology. \$40,000 (2 years; \$40,000; 100% of award).
- 2020 2023 NSERC CRD. To support Reducing Cognitive Load and Increasing Usability in Mixed Reality Collaboration with Kognitiv Spark (3 years; \$150,000 total; 100% of award).
- 2022-2023 MITACS Accelerate PDF. The development of a mobile mapping tool for archaeologists in collaboration with ArchaeoSoft Inc. To support post-doctoral fellow, Alec McLellan (8 months; \$40,000; 100% of award).

NBIF AI Pre-Voucher An AI Approach to Electronic Gaming Machine (EGM) Game Modeling: Reward Function with IGT Canada Solutions ULC. Supervised research of research assistant Jeff Mundee (1 year; \$20,000; 100% of award).

Mental Health Research Commission and New Brunswick Health Research Foundation to support "Acceptance and Commitment Therapy through Tele-Counselling for Caregivers in New Brunswick" Durepos, P., MacBean, C., Cormier, N., Gould, O., Olthuis, J., Bateman, S., McCloskey, R., Boamah, S., Sussman, T., Gardner, P., Robitaille, A., Kaasalainen, S. (1 year; \$50,000; 0% of award).

- 2021 MITACS Accelerate. To support post-doctoral fellow, Cora Woolsey, and her participation in the Lab2Market research commercialization program (\$15,000; 100% of award).
- 2020 2021 New Brunswick Health Research Foundation & New Brunswick Innovation Foundation COVID-19 Research Fund. Designing Breathing Games to Support Remote and Virtual Recovery of COVID-19 (total value: \$38,000; 50% of award; with Erik Scheme).
- 2019 2021 MITACS Accelerate. To develop patient-facing information displays for VeroSource, Fredericton, NB (total value: \$333,333; 15% of award).

NBIF Concept Innovation Grant. To support research project Improving Community Engagement in the Maker Movement (\$55,000; 100% of award).

MITACS Accelerate. To support post-doctoral fellow, Cora Woolsey, to support Community Engagement in the Maker Movement with The Ville Cooperative (\$55,000; 100% of award).

- 2014 2020 NSERC Discovery Grant. To investigate the Use of Social Feedback in Information Work (\$150,000; \$25,000/year; 100% of award).
- 2018 2020 MITACS Accelerate Cluster. To develop interactive gesture detection and use for wrist worn EMG device for Pison, Boston, USA (total value: \$240,000; 25% of award).

MITACS Accelerate. To support research intern Cassandra Folkins, to develop an educational serious game for New Brunswick Association of Nursing Homes (total value: \$40,000; 50% of award).

- 2019 Research Contract. To investigate interactive surface identification in heads-up-display technology for Kognitiv Spark (\$48,000; 100% of contract).
- NSERC Engage. To investigate the use and representation of deixis in remote augmented reality-based collaboration (\$25,000; 100% of award).

Harrison McCain Foundation Young Scholars Award. To support the Building Therapeutic Relaxation Games project (\$19,125; 100% of award).

Technology Innovation Grant. National Research Council Canada, for investigation of Drone technology for Flaight, Inc (Fredericton, NB) (\$5,250; 100% of contract).

2015 - 2017 NBIF Start-up Award. Start-up funding to support infrastructure and students at the University of New Brunswick (\$100,000; 100% of award).

2017 Harrison McCain Foundation Visiting Professorship Award. Competitive Award from the McCain Foundation to support a research visit by Prof. Rainer Herpers of Bonn-Rhein-Sieg University of Applied Sciences, Germany (\$10,000; 100% of award).

NBIF Innovation Voucher. New Brunswick Foundation for Innovation research contract to investigate information visualization technology with Remsoft, Inc (Fredericton, NB) (\$27,758; 100% of award).

Technology Innovation Grant. National Research Council Canada, for investigation information visualization technology with EvaluPlan Consulting (Fredericton, NB) (\$5,250; 100% of contract).

Tri-Council New Award Recognition. Awarded by UPEI in support of continued research success (1 course release/year; 5 years). Declined after year 1.

NSERC SurfNet Special Funding. For the creation and support of the Web Application Framework for Multi-Surface Games (GAMS API), with Carl Gutwin (Univ. of Saskatchewan) (\$25,000; 50% of award).

NSERC Engage Grant. For investigating the use of Crowdsourcing to identify sales leads with nGauge, Inc. (\$24,604.00; 100% of award)

Canadian Excellence Research Chair (CERC) Seed Grants. For Model Support for Treatment Strategies in Managing Sea Louse Parasites and Evolution of Resistance on Atlantic Salmon Farms. Revie, C. (PI), Co-investigators: MacEwan, G., Groner, G., Fast, M., and Bateman, S. (\$19,948; 0% of award)

NSERC Engage Grant. For investigating augmented reality in mobile video collaboration with XMG Studio, Inc. (Toronto, ON) (\$24,875.00; 100% of award)

Technology Innovation Grant. National Research Council Canada, for investigation object recognition through web technology with XMG Studio, Inc. (Toronto, ON) (\$5,250; 100% of contract).

2013 - 2014 NSERC SurfNet Special Funding. For the creation and support of the Web Application Framework for Multi-Surface Environments (WAMS API), with Carl Gutwin (Univ. of Saskatchewan) (\$25,000; 50% of award).

2014 GRAND Grant. To support projects within the GRAND National Centre of Excellence. (\$23,669.00; 100% of award).

Technology Innovation Grant. National Research Council Canada, for investigation of the design of a crowd-funding equity platform with industrial partner Rocklyn Foundation. (Moncton, NB) (\$5,250; 100% of contract).

2016

2015

Technology Innovation Grant. National Research Council Canada, for investigation of Energy Consumption Feedback Appliance with industrial partner Reinvented, Inc. (Charlottetown, PE) (\$5,250; 100% of contract).

2013 Young Network Investigator. GRAND National Centre of Excellence (\$5,000; 100% of award).

Technology Innovation Grant. National Research Council Canada, for investigation of mobile interfaces with industrial partner Hotpot Parking (Fredericton, NB) (\$2,625; 50% of contract) with David Leblanc (UPEI).

Technology Innovation Grant. National Research Council Canada, for investigation of mobile interfaces with industrial partner nGauge (Moncton, NB) (\$3,500; 100% of contract).

Major Research Grant. University of Prince Edward Island. Social Feedback to Support Computer Programming (\$6,600; 100% of award).

Collaborating Researcher. SurfNet NSERC Strategic Network.

2012 Start-up Grant. University of Prince Edward Island (\$9,500; 100% of award).

5.12 OTHER EVIDENCE OF RESEARCH ACCOMPLISHMENTS

N/A

5.13 MEMBERSHIP AND ACTIVE INVOLVEMENT IN PROFESSIONAL AND LEARNED SOCIETIES

Member of the ACM – Association of Computer Machinery

Member of ACM SIGCHI – Special Interest Group of Human-Computer Interaction

5.14 RECORD OF PURSUIT OF ADVANCED DEGREES AND/OR FURTHER ACADEMIC STUDY

N/A

SECTION 6 | SERVICE

6.1 SERVICE TO THE UNIVERSITY

• Equity, Diversity, and Inclusion Training Offered University Wide – I mentored a student-led initiative to create and offer EDI training to faculty and staff. The training was attended by faculty, staff and students from across the university. 2021, 2022.

Committees (list level, committee name, dates)

UNB, Faculty of CS – Graduate Committee Member (2018-19, 2019-20, 2020-21, 2021-2022)

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UNB – Inter-Faculty Committee (IFAC) Member (2017-18)
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UNB, Faculty of CS – Vision Committee Member (2017-18, 2018-19)

UNB, UNB, Faculty of CS – Second Year Advisor (2019-20, 2020-21)

UNB, Faculty of CS – CS Square Committee (2019-20)

UNB, Faculty of CS – Assessment Committee Member (2017-18, 2019-20)

UNB, Faculty of CS – Science Atlantic Committee (2015-19)

UNB, Faculty of CS – Programming Team Committee (2015-19)

UNB, Faculty of CS - Recruitment Committee (2015-16, 2016-17)

UNBT – FCS Representative for the Collective Agreement Bargaining Committee (2016)

UNBT - FCS Representative for the Collective Agreement Bargaining Committee (2020)

UNB – Senate Admissions Committee (2015-16)

UNB – Institute of Biomedical Engineering Director Search/Hiring Committee (2019)

UNB – Institute of Biomedical Engineering CARE Center Operations Committee (2019-20, 2020-21, 2021-2022)

Administrative Positions (list position, dates)

N/A

6.2 SERVICE OUTSIDE THE UNIVERSITY OF SCHOLARLY OR ACADEMIC SIGNIFICANCE

Service to Public or Private Organizations and Companies

N/A

SECTION 7 | OTHER RELEVANT INFORMATION

7.1 TECHNICAL CONTRIBUTIONS

The technical developments used in research in own work and the work of my research group the HCI Lab is posted publicly to our Github repositories (software repositories) publicly as open-source projects. This is to promote the dissemination of knowledge and the replicability of our research findings. Please see: https://github.com/scottbateman and https://github.com/hcilab

7.2 OUTREACH WORK TO SCHOOL AGED CHILDREN

2022 Computer Science Video Game Summer Camp and Maker Camps. Mentored the organization of three, one-week summer camps for middle and high school-aged children. Teaching the fundamentals of computer science through fun and engaging video game and electronicsbased activities. 2020 Computer Science Video Game Summer Camp and Maker Camps. Organized six, one-week summer camps for middle and high school-aged children, in collaboration with the Ville Cooperative. Teaching the fundamentals of computer science through fun and engaging video game and electronics-based activities. Cancelled due to COVID-19. 2019 Computer Science Video Game Summer Camp. Organized four, one-week summer camps delivered to ~50 middle and high school-aged children. Teaching the fundamentals of computer science through fun and engaging video game-based activities. 2018 Computer Science Video Game Summer Camp. Organized two, one-week summer camps delivered to 38 middle school-aged children. Teaching the fundamentals of computer science through fun and engaging video game-based activities. 2017 Interacting with Software. Interactive presentation and demo of interactive software and research activities in the UNB Human-Computer Interactions Lab. Presented to grade 8 class from Woodstock, NB. 2016 Introduction to Computer Science with SonicPi. Prepared and delivered and introductory programming exercise for approximately 60 middle school students at George Street Elementary School, Fredericton, NB. Introduction to Programming through Data Analysis. Prepared and delivered an introductory programming exercise for two groups of middle school and high school students, attending the Fredericton River Valley Regional Science Fair. 2016 Interacting with Software. Interactive presentation and demo of interactive software and research activities in the UNB Human-Computer Interactions Lab. Presented to grade 8 class from Bliss Carman School. 2015 Hour of Code Mentor. Volunteered to provide hour of code mentorship and instruction to a grade two class (Mrs. MacKay) at New Maryland Elementary School. Making Games with Scratch. Introductory tutorial and hands-on activities about how to use Scratch to make games. Presented to grades 5 and 6 at Spring Park School, Charlottetown. Hour of Code Mentor. Volunteered to provide hour of code mentorship and instruction to a grade two class (Mrs. MacKay) at New Maryland Elementary School. Making Games with Scratch. Introductory tutorial and hands-on activities about how to use Scratch to make games. Presented to grades 5 and 6 at Spring Park School.

The Charlottetown Maker Co-operative. Established a group of interested faculty and members of the community to establish a community-based maker space in Charlottetown.

2014

The maker space opened in 2015 and offer community run courses in computer programming, electronics, 3D printing and making.

2013 Introduction to Programming Games in Scratch and Python. Outreach course. I designed and taught an outreach course for fifteen children, aged 12-15. The course taught introductory programming skills and exposed students to Computer Science. The course consisted of eight,

1.5 hour classes, and was held at Stone Park Junior High School, Charlottetown, PEI.

Making Your Interface C.R.A.P. Outreach talk presented to the Charlottetown Chapter of Canada's IT Professional Society (CIPS) meeting. January 2013.

2010 Consider Studying Interactive Systems and Computer Science at University. Outreach presentation given to an eleventh-grade computer class, promoting the study of Computer Science and Interactive Systems at university. December 16th, 2010 at Colonel Gray High School, Charlottetown, PE, in Mr. Michael Peterson's class.

7.3 CONFERENCE CHARING

2022	Papers co-chair for the ACM CHI PLAY Conference. Handled organization of technical
	program, organization of paper reviewing, review process and associate chairs. Bremen,
	Germany, November 2-5, 2022.

2021 Panel and Masterclass Co-Chair for the ACM CHI PLAY Conference. October 10-14, 2021.

2020 Panel and Masterclass Co-Chair for the ACM CHI PLAY Conference. Ottawa, Ontario, November 2-4, 2020.

Technical Program HCI Chair of the 2017 International Conference on Computer Graphics and Interactive Techniques (Graphics Interface 2017). Edmonton, AB. May 2017.

2017 Organizing Co-Chair for 2017 Conference for Mathematics, Statistics and Computer Science (Science Atlantic). Fredericton, NB. October 2017.

7.4 CONFERENCE SESSION CHARING

- April 2021: Session Chair for "VR/AR/MR #3" at CHI 2021 (Yokohma, Japan).
- April 2018: Session Chair for "Beyond the Screen" at CHI 2018 (Montreal, Canada).
- May 2017: Session Chair for "Novel Gaming Interfaces" at CHI 2017 (Denver, USA).
- Oct. 2015: Session Chair for Computer Science session at Science Atlantic (Wolfville, NS)
- Oct. 2014: Session Chair for CHI Play 2014 (Toronto) session on Collaboration.

7.5 OTHER ACADEMIC ACTIVITIES

N/A

7.6 MEDIA COVERAGE, INTERVIEW OR EXPERT OPINION

2019	"UNB Student uses Augmented Reality to Help Amputees" CTV Live at Five, https://atlantic.ctvnews.ca/video?clipId=1634092&jwsource=cl March 19, 2019.
2018	"Facebook Breach" Maritime Noon, CBC Radio One (to all maritime provinces), 1 hour, radio phone-in-show. March 27, 2018.
	2018 "Facebook breach not scaring away users: experts". Michael Staples, The Daily Gleaner (newspaper), Fredericton, New Brunswick. March 23rd, 2018.
2017	"UNB prof seeks to level the playing field in video games for out-of-touch parents" by Joseph Tunney, CBC Website, December 16, 2017. http://www.cbc.ca/news/canada/new-brunswick/unb-computer-science-video-game-balancing-1.4450416
	Radio Interview about player balancing research in the UNB HCI Lab by Joseph Tunney, aired on CBC Radio One in New Brunswick. December 16, 2017.
2016	"UNB's Scott Bateman Helps Humans and Computers Communicate" by Cara Smith, Huddle, June 20, 2016. http://huddle.today/scott-bateman/
2015	Interviews on the need for teaching Computer Science in grade school. Interviewed by 9 separate CBC Radio morning show hosts from across Canada. CBC Radio. March 24, 2015.

7.7 PARTICIPATION AND/OR SUPERVISION OF PROGRAMMING, INNOVATION OR GAME DEVELOPMENT COMPETITIONS

 Fog Cutter: Field Operation Guidance for Emergency Response Through 5G Enabled Remote Holographic Support. BOOST 5G Innovation Camp Winning Concept Video. https://www.fredericton.ca/en/news/city-hall/boost-5g-innovation-camp-winners-announced-fog-cutter-takes-home-top-prize

7.8 EXTERNAL REVIEWING FOR CONFERENCES, PEER-REVIEW WORKSHOPS & JOURNALS

Venue – year (# of papers) Total: 134 (Note these are in my role as an external reviewer only). As an associated editor or associate chair, I have provided many more primary reviews.

- Communications of the ACM 2012 (1), 2013 (2), 2014 (1), 2016(2), 2017 (1)
- Oxford University Press Book Proposal Review 2019 (1)
- Journal of Applied Cognitive Psychology 2013 (1)
- ACM Transactions on the Web (TWEB, Journal) -2011 (1)
- Int. Journal of Human-Computer Studies (IJHCS) 2009 (1), 2010 (2), 2013 (1), 2014 (1), 2016 (1), 2017 (3), 2018 (1)
- Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) 2018 (2)

- IEEE Transactions on Visualization and Computer Graphics 2016 (2), 2017 (1), 2020 (1)
- International Journal of Artificial Intelligence in Education 2020 (2)
- Journal of Systems and Software 2010 (1)
- IEEE Transactions on Learning Technology 2010 (1)
- IEEE Transactions on Neural Systems & Rehabilitation Engineering 2019 (1), 2020 (1)
- Journal of Interactive Learning Environments 2009 (1)
- ACM CHI 2009 (4), 2010 (2), 2011(4), CHI 2012 (6), CHI 2013 (5), CHI 2014 (7), 2017(7)
- ACM CHI Work-in-progress 2015 (3)
- ACM CHI Student Research Competition 2015 (2)
- ACM CSCW 2008 (1), 2010 (1), 2011 (1), 2012 (1), 2013 (2), 2014 (4), 2015 (3), 2018 (2), 2021 (3)
- ACM CHI-IR 2016 (3)
- ACM TEI 2015 (1), 2017 (1)
- ACM DIS 2014 (1), 2016 (1), 2020 (1)
- IEEE InfoViz 2012 (1), 2013 (1), 2014 (2)
- Symposium on Human-Computer Information Retrieval 2011 (3)
- ACM ISS 2013 (1), 2014 (1), 2018 (1)
- Information Interaction in Context Symposium (IIX) 2012 (2), 2014 (4)
- ACM UIST User Interface and Software Technology 2010 (2), 2015 (1)
- ACM Intelligent Tutoring Systems 2011 (2)
- Extended Semantic Web Conference 2010 (2), 2011 (1)
- Graphics Interface 2008 (1), 2011 (2), 2013 (3), 2018 (1)
- Workshop on Adaptation for the Social Web 2008 (3)
- Int. Workshop on Interacting with Multimedia Content in the Social Semantic Web 2008 (3)
- International Learning Object Research Network Conference 2007 (2)
- European Conference on Technology Enhanced Learning 2007 (2), 2009 (2)
- International Conference of Artificial Intelligence in Education 2007 (3)
- Workshop on Data Mining for User Modeling 2007 (1)