

Bill Kapralos, Ph.D

*Game Development and Entrepreneurship Program
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EDUCATION

- **Doctor of Philosophy in Computer Science.** *The Sonel Mapping Acoustical Modeling Method.* Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada. September 2006.
- **Master of Science in Computer Science.** *Eyes 'n Ears: A System for Attentive Teleconferencing.* Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada. April 2001.
- **Bachelor of Science in Computer Science** (*graduated with honours and first class with distinction*). Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada. May 1999.
- **Electronics Engineering Technician Diploma.** Humber College of Applied Arts and Technology. Etobicoke, Ontario, Canada (two more courses required).
- **Electronics Basics Program** (*graduated with honours*). Humber College of Applied Arts and Technology. Etobicoke, Ontario, Canada. June 1994.

EMPLOYMENT HISTORY

- **Assistant Professor (August 2006 - present).** Faculty of Business and Information Technology (Game Development and Entrepreneurship Program), University of Ontario Institute of Technology. Oshawa, Ontario, Canada.
 - INFR 4350: Virtual Reality and User Interaction (Fall 2008, Fall 2009).
 - INFR 2350: Introduction to Computer Graphics (Winter 2007, Winter 2008, Winter 2009).
 - INFR 2370: Sound and Audio for Games (Winter 2007, Winter 2008, Winter 2009).
 - INFR 1350: Photographic and Image Processing Techniques (Fall 2006, Fall 2007, Fall 2008, Fall 2009).
 - INFR 2810: Computer Architecture (Fall 2007, Fall 2008).
- **Adjunct Professor (May 2007 - present).** Faculty of Graduate Studies, Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada.
- **Course Director (Contract Faculty, January 2001 – August 2006).** Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada.
 - CSE 6002: Directed Reading: Auditory Perception and Virtual Audio (Fall 2008).
 - CSE 1020: Introduction to Computer Science I (Summer 2006).
 - CSE 1030: Introduction to Computer Science II (Summer 2006).
 - CSE 3301: Programming Language Fundamentals (Summer 2006).
 - CSE 1530: Computer Use II: Programming (Winter 2006).
 - COSC 2011: Fundamentals of Data Structures (Winter 2001).

Curriculum Vitae

- **Course Director (Contract Faculty, April 2005 – August 2005).** Department of Computer Science, University of Toronto. Toronto, Ontario, Canada.
 - CSC 320: Introduction to Visual Computing (Summer 2005).
- **Course Director (Contract Faculty, January 2005 – May 2006).** School of Applied Technology, Humber College of Applied Arts and Technology. Etobicoke, Ontario, Canada.
 - ELIC 629: Digital Image Processing (Winter 2005, Fall 2005, Winter 2006).
 - ELIC 413: Introduction to Programming - C Programming (Fall 2005).
- **Teaching Assistant (January 1999 – August 2006).** Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada.
- **Research Assistant (May 1996 – April 1999).** Department of Computer Science and Engineering, York University. Toronto, Ontario, Canada.
- **Pinball and Video Game Technician (May 1993 – August 1996).** Seven Star Amusements. Toronto, Ontario, Canada.

ACADEMIC HONORS AND AWARDS

- IBM Center for Advanced Studies (CAS) Faculty Award. June 2009.
- Dissertation Award, Department of Computer Science and Engineering, York University. June 2007.
- York University President's Dissertation Scholarship. September 2004 – August 2005.
- Ontario Graduate Scholarships in Science and Technology (OGSST). May 2003 – April 2004.
- Institute for Robotics and Intelligent Systems (IRIS) Student Fellowship. June 2003.
- Gold (first place) poster. 12th Annual Canadian Conference on Intelligent Systems, Calgary, Alberta, Canada. May 29 - June 1.
- Natural Sciences and Engineering Research Council of Canada (NSERC), Post Graduate Scholarship (PGS B). May 2001 – April 2003.
- Ontario Graduate Student Scholarship (OGS). April 2001 (declined in favor of NSERC).
- "Thesis Award ", Department of Computer Science and Engineering, York University. June 2001.
- Center for Research in Earth and Space Technology (CRESTech), Graduate Student Award. May 2001.
- Center for Research in Earth and Space Technology (CRESTech), Graduate Student Award. October 2001.
- Allen S. Berg Award (in memory of Nancy Waisbord) for consistently demonstrating excellence in Computer Science. Department of Computer Science and Engineering. York University. June 1999.
- Natural Sciences and Engineering Research Council of Canada (NSERC), Post Graduate Scholarship (PGS A). May 1999 – April 2001.
- Ontario Graduate Student Scholarship (OGS). April 1999 (declined in favor of NSERC).
- York University Continuing Student Scholarship. September 1998.
- York University Science Undergraduate Research Award. May 1998 – August 1998.
- York University Science Undergraduate Research Award. May 1997 – August 1997.
- York University Continuing Student Scholarship. September 1996.
- York University Continuing Student Scholarship. April 1996.

RESEARCH**Past and Current Research Grants**

- **B. Kapralos**, A. Dubrowski, M. Hogan, C. Mallette, A. Hogue, W. Shi, S. Goldsworthy. Inukshuk Wireless Content Development Projects. *Development of a virtual learning environment for interprofessional education in critical care*. November 2009 – November 2010 (\$132,727.02).
- **B. Kapralos**. IBM Center for Advanced Studies (CAS) Faculty Award. *Streaming knowledge, sharing, and advanced interfaces* June 2009 – June 2010 (\$10,000.00).
- K. Collins, and **B. Kapralos**. Social Sciences and Humanities Research Council of Canada (SSHRC), Research Development Initiative. *Sound on smart tables: An pilot study of methods in sonic interaction design*. July 2009 – July 2011 (\$37,162.00).
- N. Matsuda, T. Hirashima, J. Vassileva, **B. Kapralos**, K. Collins, M. Yoneya, K. Kanev, and H. Inokawa. *Multimedia interaction interfaces in collaborative e-Learning environments*. Cooperative Research Project at RIE, Shizuoka University, Japan. July 2009 (\$1,000,000 JPY).
- M. Jenkin, L. Harris, R. Herpers, R. Allison, and **B. Kapralos**. Alexander von Humboldt Foundation (Transcoop Program, Canada-Germany). *The perception of self-motion in virtual environments*. July 2009 – July 2012 (\$54,967.00 EUR).
- **B. Kapralos**, A. Hogue, and W. Shi. University of Ontario Institute of Technology Teaching Innovation Fund. *WildMagic+: A high-quality industry-standard open-source game engine framework*. Awarded March 2009 (\$7,100.00).
- A. Hogue, **B. Kapralos**, and W. Shi. University of Ontario Institute of Technology Teaching Innovation Fund. *Generalized framework for interactive learning objects with application to linear algebra and physics*. Awarded March 2009 (\$7,100.00).
- M. Vargas-Martin, and **B. Kapralos**. University of Ontario Institute of Technology Teaching Innovation Fund. *Using sonification to enhance teaching and learning of network intrusion detection*. Awarded March 2009 (\$7,100.00).
- **B. Kapralos**, M. Hogan, B. Muirhead, and A. Dubrowski. Social Sciences and Humanities Research Council of Canada (SSHRC) Image, Text, Sound, and Technology (ITST). February 2009 – February 2010. *Interactive community simulation environment for public health curriculums* (\$47,404.00).
- A. Dubrowski, M. Barry, H. Carnahan, **B. Kapralos**, J. MacDonald-Jenkins, D. Rose, O. Safir, and D. Backstein. The Network of Excellence in Simulation for Clinical Teaching and Learning, Innovations and Evaluation Projects 2009-2010. *Effectiveness of an internet mediated, networked learning instrument in simulation based training of clinical tasks*. (\$37,128.00).
- **B. Kapralos**. National Science and Engineering Research Council (NSERC) Discovery Grant. July 2008 – July 2013. *Computational acoustics for virtual environments*. (\$15,900.00/year).
- **B. Kapralos**, and M. Hogan. University of Ontario Institute of Technology Teaching Innovation Fund. *Interactive community simulation environment for public health curriculums*. Awarded April 2008 (\$7,000.00).
- A. Hogue, **B. Kapralos**, and J. Friedlan. University of Ontario Institute of Technology Teaching Innovation Fund. *Interactive simulation environment for accounting education*. Awarded April 2008 (\$7,000.00).

PUBLICATIONS**Journal Articles Currently Under Review**

1. M. Vargas Martin, M. A. Garcia-Ruiz, **B. Kapralos**, L. Qi, M. Green. Towards efficient sonification for enhancing network intrusion detection. *Journal of Internet Technology: Special Issue on Coding, Cryptography, and Multimedia Security in Computer Systems over Cyber-Space Communications*. Submitted February 2010.

Curriculum Vitae

2. B. Cowan, and **B. Kapralos**. A real-time, GPU-based method to approximate acoustical reverberation effects. *Journal of Graphics, GPU, and Game Tools*. Submitted January 2010.
3. F. Hamidi, M. Kaftarian, D. Natapov, **B. Kapralos**, and K. Collins. A survey of audio-based digital media for the visually impaired: What we can learn from audio-based interactions. *Entertainment Computing*. Submitted September 2009.
4. B. Cowan, and **B. Kapralos**. GPU-based real-time acoustical occlusion modeling. *Virtual Reality*. Submitted January 2009.

Refereed Journal Publications

- 1 B. Cowan, and **B. Kapralos**. GPU-based one-dimensional convolution for real-time spatial sound generation. *Loading... Feature Issue: FuturePlay 2008 Edition*. 3(9), 2009.
- 2 S. Khattak, H. Sabri, M. Hogan, **B. Kapralos**, K. Finney, and A. Dubrowski. A serious game for community health nursing education and training. *Journal of Health Professions Education*. 1(1), 2009.
- 3 F. Hamidi, and **B. Kapralos**. A review of spatial sound for virtual environments and games with graphics processing units. *The Open Virtual Reality Journal*, 1(1):8 – 17, 2009.
- 4 **B. Kapralos**, M. Jenkin and E. Milios. Sonel mapping: A probabilistic acoustical modeling method. *Building Acoustics*, 15(4):289-313, 2008.
- 5 **B. Kapralos**, M. Jenkin, and E. Milios. Virtual audio systems. *Presence: Teleoperators and Virtual Environments*. 17(6):527-549, 2008.
- 6 **B. Kapralos**, M. Jenkin and E. Milios. Audio-visual localization of multiple speakers in a video teleconferencing setting. *International Journal of Imaging Systems and Technology*. 13(1):95 – 105, 2003.
- 7 E. Milios, **B. Kapralos**, A. Kopinska and S. Stergiopoulos. Sonification of range information for 3D space perception. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*. 11(4):416 – 421, 2003.

Refereed Book Chapters

- 8 M. A. Garcia-Ruiz, J. Tashiro, **B. Kapralos**, and M. Vargas Martin. *Crouching tangents, hidden danger: Assessing developments of dangerous misconceptions within serious games for healthcare education*. Shalin Hai-Jew (ed.) *Virtual Immersive and 3D Learning Spaces: Emerging Technologies and Trends*. (to appear, 2010).

Refereed Conference and Workshop Publications

- 9 M. A. Garcia-Ruiz, M. Vargas Martin, **B. Kapralos**, J. Tashiro, and R. Acosta-Diaz. Best practices for applying sonification to support teaching and learning of network intrusion detection. In *Proceedings of the World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2010)*. June 28 – July 2 2010, Toronto, Ontario, Canada.
- 10 A. Brown, M. Vargas Martin, **B. Kapralos**, M. A. Garcia-Ruiz, and M. Green. Using sonification to enhance teaching and learning of network intrusion detection. In *Proceedings of the 12th International Conference on Humans and Computers (HC 2009)*. December 9-10 2009, Hamamatsu, Japan.
- 11 K. Collins, **B. Kapralos**, and K. Kanev. Sound interface design for smart table computer interaction. In *Proceedings of the 12th International Conference on Humans and Computers (HC 2009)*. December 9-10, 2009, Hamamatsu, Japan.
- 12 W. Shi, G. Lee, J. Hinchley, J. Corriveau, **B. Kapralos**, and A. Hogue. Using a virtual learning environment with highly interactive elements in Second Life to engage millennial students. In *Proceedings of the 2010 International Conference on e-Education, e-Business, e-Management and e-Learning (IC4E 2010)*. January 22-24, 2010, Sanya, China.
- 13 J. Macgregor, S. Meng, **B. Kapralos**, H. Carnahan, and A. Dubrowski. Internet mediated, peer-to-peer feedback for learning of patient transfer skills: Prototype development and testing. In

- Proceedings of the World Conference on Educational Sciences (WCES) 2010*. February 4-8, 2010, Istanbul, Turkey.
- 14 H. Sabri, B. Cowan, **B. Kapralos**, M. Porte, D. Backstein, and A. Dubrowski. Serious games for knee replacement surgery procedure education and training. In *Proceedings of the World Conference on Educational Sciences (WCES) 2010*. Istanbul, Turkey, February 4-8, 2009.
 - 15 C. Albuquerque, T. Brown, **B. Kapralos**, M. Hogan, and A. Dubrowski. The use of virtual simulations in a laptop-based university. In *Proceedings of the World Conference on Educational Sciences (WCES) 2010*. February 4-8, 2010, Istanbul, Turkey.
 - 16 B. Cowan, and **B. Kapralos**. Real-time acoustical diffraction and first order specular reflection modeling using the GPU. In *Proceedings of the 10th Western Pacific Acoustics Conference*. Beijing, China, September 21-23 2009.
 - 17 **B. Kapralos**, A. Hogue, A. Kopinska, and S. Khattak. The Interaction of Visual and Auditory Cues to Linear Self-Motion Perception. In *Proceedings of the 10th Western Pacific Acoustics Conference. Invited paper: Special Session on Sound Technologies for Multimodal Communication*. Beijing, China. September 21-23.
 - 18 B. Cowan, and **B. Kapralos**. Real-time GPU-based convolution: A follow-up. In *Proceedings of the ACM FuturePlay @ GDC Canada 2009 International Conference on the Future of Game Design and Technology*. Vancouver, British Columbia, Canada, May 12-13 2009, pp. 25-26.
 - 19 A. Brown, M. Vargas Martin, **B. Kapralos**, Mark Green, and M. Garcia-Ruiz. Towards music assisted intrusion detection. In *Proceedings of the IEEE Symposium on Security and Privacy*. Oakland, CA. USA, May 17-20, 2009.
 - 20 **B. Kapralos**, N. Mekuz, A. Kopinska, and S. Khattak. Dimensionality reduced HRTFs: A comparative study. In *Proceedings of the ACM Advancements in Computer Entertainment (ACE) 2008*. Yokohama, Japan, December 3-5, 2008, pp 59-62.
 - 21 B. Cowan, and **B. Kapralos**. Spatial sound for video games and virtual environments utilizing real-time GPU-based convolution. In *Proceedings of the ACM FuturePlay 2008 International Conference on the Future of Game Design and Technology*. Toronto, Ontario, Canada, November 3-5 2008, pp 166-172.
 - 22 A. Milner, A. Hogue, **B. Kapralos**, and J. Friedlan. Interactive accounting simulation environment for accounting education and training. In *Proceedings of the ACM FuturePlay 2008 International Conference on the Future of Game Design and Technology*. Toronto, Ontario, Canada, November 3-5 2008, pp 258-259.
 - 23 B. Cowan, M. Shelley, H. Sabri, **B. Kapralos**, A. Hogue, M. Hogan, S. Goldsworthy, L. Rose and A. Dubrowski. Interprofessional care simulator for critical care education. In *Proceedings of the ACM FuturePlay 2008 International Conference on the Future of Game Design and Technology*. Toronto, Ontario, Canada, November 3-5 2008, pp 260-261.
 - 24 M. Guennoun, S. Khattak, **B. Kapralos**, and K. El-Khatib. Augmented reality-based audio/visual surveillance system. In *Proceedings of the 2008 IEEE International Workshop on Haptic Audio Visual Environments and their Applications (HAVE 2008)*. Ottawa, Canada, October 18-19 2008, pp 70-74.
 - 25 Y. Gahi, M. Lamrani, A. Zoglat, M. Guennoun, **B. Kapralos**, and K. El-Khatib. Biometric identification system based on electrocardiogram data. In *Proceedings of the 2nd IEEE International Conference on New Technologies, Mobility and Security (NMTS 2008)*. Tangier, Morocco, November 5-7, 2008, pp 1-5.
 - 26 L. Qi, M. Vargas Martin, **B. Kapralos**, M. Garcia-Ruiz, and M. Green. Toward sound-assisted intrusion detection systems. In *Proceedings of the 2nd International Symposium on Information Security (IS '07)*, Vilamoura, Algarve, Portugal, November 26-27, 2007, pp 1634-1645.
 - 27 M. Hogan, H. Sabri, and **B. Kapralos**. Interactive community simulation environment for community health nursing. In *Proceedings of the ACM FuturePlay 2007 Academic Games Conference*, Toronto, Ontario, Canada, November 15-17, 2007, pp. 237-240.
 - 28 **B. Kapralos**, D. Zikovitz, and S. Khattak. Auditory motion perception threshold. In *Proceedings of the 2007 IEEE International Workshop on Haptic Audio Visual Environments and their Applications (HAVE 2007)*, Ottawa, Canada, October 12-14, 2007, pp. 1-4.

- 29 H. Sabri, S. Khattak, **B. Kapralos**, K. El-Khatib, and M. Guennoun. Virtual reality-based interface for the control of multiple surveillance cameras. In *Proceedings of the 2007 IEEE International Workshop on Haptic Audio Visual Environments and their Applications (HAVE 2007)*, Ottawa, Canada, Oct. 12-14, 2007, pp. 76-79.
- 30 **B. Kapralos**, M. Jenkin, and E. Miliios. Acoustical modeling with sonel mapping. In *Proceedings of the 1^{9th} International Congress on Acoustics (ICA 2007)*, Madrid, Spain, September 2-7, 2007.
- 31 D. C. Zikovitz, and **B. Kapralos**. Decruitment of the perception of changing sound intensity for simulated self-motion. In *Proceedings of the 13th International Conference on Auditory Display (ICAD 2007)*. Montreal, Canada, June 26-29, 2007, pp. 120-125.
- 32 **B. Kapralos**, and N. Mekuz. Application of dimensionality reduction techniques to HRTFs for interactive virtual environments. In *Proceedings of the ACM International Conference on Advances in Computer Entertainment Technology (ACE 2007)*. Salzburg, Austria, June 13-15, 2007, pp. 256-257.
- 33 **B. Kapralos**, A. Hogue, and H. Sabri. Automatic recognition of hand raising gestures for a remote learning application. In *Proceedings of the 8th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2007)*. Santorini, Greece, June 6-8, 2007. Pp. 38-41.
- 34 M. A. Garcia-Ruiz, M. Vargas Martin, and **B. Kapralos**. Toward multimodal human-computer interfaces for network intrusion detection: A sonification prototype. In *Proceedings of the 122nd Convention of the Audio Engineering Society*, Vienna, Austria. May 5-8 2007, preprint no: 7066.
- 35 A. Shupo, **B. Kapralos** and, M. Vargas Martin. Statistical-based skin classifier for omnidirectional images. In *Proceedings of the 2nd International Conference on Computer Vision Theory and Applications (VISAPP 2007)*. Barcelona, Spain, March 8-11 2007, pp. 11-17.
- 36 **B. Kapralos**, M. Jenkin, and E. Miliios. Acoustical diffraction modeling for interactive virtual environments. In *Proceedings of the 2nd International Conference on Computer Graphics Theory and Applications (GRAPP 2007)*. Barcelona, Spain, March 8-11 2007, pp. 241-248.
- 37 **B. Kapralos**, M. Jenkin, and E. Miliios. Sonel mapping: A stochastic acoustical modeling system. In *Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2006)*. Toulouse, France. May 14 - 19 2006, pp. V421-V424.
- 38 **B. Kapralos**, M. Jenkin, and E. Miliios. Acoustical modeling using a Russian roulette strategy. In *Proceedings of the 118th Convention of the Audio Engineering Society*, Barcelona, Spain. May 28 - 31 2005, preprint no: 6497.
- 39 **B. Kapralos**, M. Jenkin, and E. Miliios. Acoustical diffraction modeling utilizing the Huygens-Fresnel principle. In *Proceedings of the 2005 IEEE International Workshop on Haptics Audio Visual Environments and their Applications (HAVE 2005)*. Ottawa, Canada. October 1 - 2, 2005, pp. 39-44.
- 40 **B. Kapralos**, M. Jenkin, and E. Miliios. Sonel mapping: Acoustical modeling with an acoustical version of photon mapping. In *Proceedings of the 2004 IEEE International Workshop on Haptics Audio Visual Environments and their Applications (HAVE 2004)*. October 2 - 3, 2004, pp. 1-6.
- 41 **B. Kapralos**, D. Zikovitz, M. Jenkin and L. R. Harris. Auditory cues in the perception of self-motion. In *Proceedings of the 116th Convention of the Audio Engineering Society*. Berlin, Germany. May 8 - 11, 2004, preprint no: 6078.
- 42 **B. Kapralos**, A. Barth, J. Ma and M. Jenkin. A system for synchronous distance learning. In *Proceedings of the 16th International Conference on Vision Interface (VI 2003)*. Halifax, Nova Scotia, Canada. June 11 -13, 2003.
- 43 **B. Kapralos**, M. Jenkin, E. Miliios and J. Tsotsos. Eyes 'n ears face detection. In *Proceedings of the IEEE International Conference on Image Processing (ICIP 2001)*. Thessaloniki, Greece. October 7 - 10, 2001, pp. 66-69.
- 44 **B. Kapralos**, M. Jenkin, E. Miliios and J. Tsotsos. Eyes' n ears: face detection utilizing audio and video cues. In *Proceedings of the 2nd International Workshop on Recognition, Analysis and Tracking of Faces and Gestures in Real-time Systems (RATFG-RTS 200, in conjunction with ICCV 2001)*. Vancouver, Canada. July 13, 2001, pp. 106-112.
- 45 E. Miliios, **B. Kapralos**, S. Stergiopoulos: Sonification of range information for 3D space perception,. In *Proceedings of the International Conference on Auditory Displays (ICAD) - Joint ICAD/ASA/EAA Workshop on Auditory Display*. Berlin, Germany. March 20, 1999.

Refereed Abstracts

1. **B. Kapralos**, M. Hogan, K. Finney, and A. Dubrowski. Modular synthetic training research evaluation and extrapolation tool (mSTREET). *2nd Annual HETRU Conference on What really Works: Strategies to Improve Teaching and Learning*. Oshawa, Canada, November 21-22, 2009.
2. M. Hogan, **B. Kapralos**, B. Muirhead, and A. Dubrowski. Community health nursing comes to life. *Third Annual Conference of the Canadian Game Studies Association*. Ottawa, Canada. May 23-24 2009.
3. M. Hogan, **B. Kapralos**, B. Muirhead, and A. Dubrowski. Bringing community health nursing education to life. *Health Professionals Education (HPE) – Global Best Practices in Simulation 2009*. Toronto, Ontario, Canada. May 21-23, 2009.
4. M. Hogan, and **B. Kapralos**. The use of simulations in community health nursing curriculums. *26th Annual International Nursing Computer and Technology Conference*. Las Vegas, Nevada, USA. June 4-7 2008.
5. M. Hogan, and **B. Kapralos**. Simulations in community health nursing. *2nd National Community Health Nurses Conference*. Toronto, Ontario, Canada. May 29-31 2008.
6. **B. Kapralos**, M. Jenkin, E. Milios, and J. Tsotsos. Eyes 'n ears sound localization. In *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2001*. Salt Lake City, Utah, USA. May 7-11, 2001.
7. **B. Kapralos**, M. Jenkin, E. Milios, and J. Tsotsos. Eyes 'n ears: A system for attentive teleconferencing. In *Proceedings of the 39th Meeting of the Acoustical Society of America*. Atlanta, Georgia USA. May 30 - June 3, 2000. Appears in *Journal of the Acoustical Society of America*, 107(5):2790, 2000.

Technical Reports

1. **B. Kapralos**, D. Zikovitz, M. Jenkin, and L.R. Harris. Auditory cues in the perception of self-motion for linear translation. Department of Computer Science, York University, Toronto, Ontario, Canada. *Technical Report CS-2004-04*. November, 2004.
2. **B. Kapralos**, M. Jenkin, and E. Milios. Audio-visual localization of multiple speakers in a video teleconferencing setting. Department of Computer Science, York University, Toronto, Ontario, Canada. *Technical Report CS-2002-02*. July 2002.

Published Reviews in ACM Computing Reviews

- Completed a summary and a review of the following paper (December 5, 2008): K. Bormann. Visuals are not what they look, *Virtual Reality* 12(2): 115-123, 2008.

Invited Talks and Presentations in 2008/2009 (Presented by Bill Kapralos)

1. Brent Cowan and **Bill Kapralos**. Real-time spatial sound for virtual environments and games utilizing the GPU. Queens University. January 22, 2009.
2. Participant at the Ontario *Video Game Roundtable Meeting* with the Honorable Minister of Economic Development and Trade, Sandra Pupatello, September 10 2008.
3. **Bill Kapralos**, and Michelle Hogan. Serious games: an overview. *2008 Canadian Conference on Medical Education*. Montreal, Quebec, Canada. May 3-7, 2008.
4. Michelle Hogan, Hamed Sabri, Saad Khattak, and **Bill Kapralos**. Interactive simulation for community health education and training. Poster presentation at the *Health Education Technology Research Unit (HETRU) Official Launch*. Oshawa, Ontario, Canada. April 7 2008.
5. Michelle Hogan and **Bill Kapralos**. Interactive simulation for community health education and training. *Health Education Technology Research Unit (HETRU) Rounds*. Oshawa, Ontario, Canada. March 13 2008.

6. **Bill Kapralos**, and Daniel Zikovitz. Self-motion perception with changing sound source intensity. *CIRMMT Workshop on Multimodal Influences on Perceived Self-Motion*. Montreal, Quebec, Canada. February 4, 2008.

SCHOLARLY AND PROFESSIONAL ACADEMIC ACTIVITIES

- **Conference Chair:** *ACM FuturePlay @ GDC 2010*, Vancouver, British Columbia, Canada. May 6-7, 2010 (<http://futureplay.org>).
- **Organizing Committee:** *CIRMMT Workshop on Multimodal Influences on Perceived Self-Motion*. Montreal, Quebec, Canada. February 4, 2008.
- **Conference Chair:** *ACM FuturePlay @ GDC 2009*, Vancouver, British Columbia, Canada. May 12-13, 2009.
- **Conference Chair:** *ACM FuturePlay 2008 International Conference on the Future of Game Design and Technology* Toronto, Ontario, Canada. November 3-5, 2008.
- **Organizing Committee:** *Health Education Technology Research Unit (HETRU) and McGraw-Hill Ryerson 2nd Annual Conference: What Really Works: Strategies to Improve Teaching and Learning*. Oshawa, Ontario, Canada. November 21-22, 2009.
- **Conference Chair:** *ACM FuturePlay 2007 International Conference on the Future of Game Design and Technology* Toronto, Ontario, Canada. November 15-17, 2007.

- **Panel Participation/Organization**
 - **Bill Kapralos**, Jay Tahsiro, Michelle Hogan, Ken Finney, Adam Dubrowski. Serious games: video game-based learning for health education and training. *Health Professionals Education (HPE) – Global Best Practices in Simulation 2009*. Toronto, Ontario, Canada, May 21-23, 2009
 - Karen Collins and **Bill Kapralos**. Panel: An overview of interactive audio: Where are we currently and where are we heading? Digital Kung-Fu: Interactive Workshop at the Centre for Digital Media. Vancouver, British Columbia, Canada, May 14 2009.
 - Adam Dubrowski, Jay Tashiro, Ken Finney, and **Bill Kapralos**. Games for health education and training. *FuturePlay @ GDC Canada 2009*. Vancouver, British Columbia, Canada, May 12-13, 2009.
 - Karen Collins, **Bill Kapralos**, David Kerr, and Leonard Paul. Panel: Game audio education: Adding audio to your game courses, and games to your audio courses. *FuturePlay @ GDC Canada 2009*. Vancouver, BC, Canada, May 12-13, 2009.
 - LauraJo Gunter, Gerri Sinclair, Steve Engels, and **Bill Kapralos**. Ontario's got talent. *GameON Finance*. Toronto, Ontario, October 28-29, 2008.
 - Adam Dubrowski, **Bill Kapralos**, and Michelle Hogan. Blogs, podcasts and serious games: What should educators know about the learning needs of their students? *Health Professionals Education (HPE) – Global Best Practices in Simulation 2009*. Toronto, Ontario, Canada, May 21-23, 2009.

- **Journal Editorial Boards**
 - Journal of Health Professions Education
 - The Open Virtual Reality Journal

- **Grant Reviewer**
 - Ontario Centres of Excellence.
 - Natural Sciences and Engineering Research Council of Canada (NSERC).
 - United States National Science Foundation.
 - UOIT Teaching Innovation Fund Review Committee.

- **Journal Reviewer**

- IEEE Transactions on Instrumentations and Measurement.
- Ageing International.
- Institution of Engineering and Technology Computer Vision Transactions on Haptics.
- Institution of Engineering and Technology Computer Vision.
- Motor Control.
- ACM Transactions on Applied Perception.
- Journal of Autonomous Robots.
- International Journal of Computer Games Technology.
- Journal of the Acoustical Society of America.
- Journal of Image and Vision Computing.
- Journal of Sound and Vibration.

- **Conference Program Committees**

- Computer Graphics International 2010 (CGI 2010).
- Graphics Interface 2010.
- Canadian Conference on Computer and Robot Vision (CRV 2010).
- International Conference on Computer Supported Education (CSEDU) 2010.
- HETRU What Really Works: Strategies to Improve Teaching and Learning Conference '09
- IEEE 2009 International Workshop on Haptic Audio Visual Environments and Games (HAVE 2009).
- Graphics Interface 2009.
- Canadian Conference on Computer and Robot Vision (CRV 2009).
- IEEE 2008 International Workshop on Haptic Audio Visual Environments and their Applications (HAVE 2008).
- IEEE/RSJ International Conference on Intelligent Robots and Systems (2008 and 2009).
- Edutainment 2008.
- IEEE International Workshop on Digital Entertainment and Creative Technology.
- Serious Games Canada Symposium.
- International Conference on Computer Vision Theory and Applications (VISAPP 2007).
- ACM International Conference on Advances in Computer Entertainment 2007.
- International Conference on Computer Vision Theory and Applications (VISAPP 2008).
- IEEE 2007 International Workshop on Haptic Audio Visual Environments and their Applications (HAVE 2007).
- International Conference on Computer Vision Theory and Applications (VISAPP 2007).
- Canadian Conference on Computer and Robot Vision (CRV 2007).
- 3DUI 2006 - The First IEEE Symposium on 3D User Interfaces.
- International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision (WSCG 2003).

Student Supervision

Graduate Student Supervision

- Jonathan Lam (MSc)

Current Undergraduate Student Supervision

- Brent Cowan (Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Summer Research Award recipient, Summer 2008, and Summer 2009)
- Hamed Sabri

Curriculum Vitae

- Daniel Chan
- Daniel Buckstein
- David Kirk

Ph.D Supervisory Committee Member (“Outside Member”)

- Jeremy Mogk, “An MRI Based Biomechanical Model of the Wrist and Carpal Tunnel”. Department of Kinesiology and Health, York University. Toronto, Ontario, Canada.

University Service and Administrative Positions

University Service (UOIT)

- Search Committee, Faculty of Criminology, Justice, and Policy Studies (March 1 2010 – present).
- Search Committee, Faculty of Business and IT (March 2 2010 – present).
- Graduate Admissions Committee, Faculty of Business and Information Technology (September 2008 – present).
- Search Committee, Faculty of Business and IT (September 2009 – January 2010).
- University Life sub-committee, Faculty of Business and Information Technology (August 2009)..
- UOIT-First Lego League (FLL) Committee (April 2009 – January 2010).
- UOIT Staff Award of Excellence Committee (Summer 2008).
- Master of Science, PhD graduate Program Committee (Spring 2008 – present).
- Search Committee, Faculty of Business and IT (Summer 2007 – Winter 2008).
- Faculty of Science, Computing Science Curriculum Review Committee (Fall 2008).