

Curriculum Vitae

Adam Dubrowski, PhD

Curriculum Vitae

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1.0 BIOGRAPHICAL INFORMATION

1.1 Degrees Received

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Specialty</u> |
|---------------|-------------|------------------------|------------------|
| Ph.D. | 2001 | University of Waterloo | Kinesiology |
| M.Sc. | 1997 | University of Waterloo | Kinesiology |
| B.Sc. | 1996 | University of Waterloo | Kinesiology |

1.2 Employment

| <u>Year</u> | <u>Position</u> | <u>Institution</u> |
|----------------|---------------------|---------------------------------------------------------------------------------------------------|
| 2019 - present | Professor | Faculty of Health Sciences, Ontario Tech University, Oshawa, Ontario |
| 2015 - 2019 | Professor | Division of Emergency Medicine, Faculty of Medicine, Memorial University of Newfoundland |
| 2013 - 2015 | Associate Professor | Division of Emergency Medicine, Faculty of Medicine, Memorial University of Newfoundland |
| 2009 - 2013 | Associate Professor | Department of Pediatrics, University of Toronto |
| 2009 - 2013 | Research Scientist | Learning and Research Institutes, Hospital for Sick Children |
| 2007 - 2009 | Assistant Professor | Lawrence S. Bloomberg Faculty of Nursing, University of Toronto |
| 2002 - 2013 | Scientist III | Wilson Centre, University of Toronto |
| 2002 - 2007 | Assistant Professor | Department of Surgery, |

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|-------------|-----------------------------|---------------------------------------------------------|
| | | University of Toronto |
| 2002 - 2007 | Research Scientist | Surgical Skills Center, Mount Sinai Hospital |
| 2002 - 2007 | Adjunct Assistant Professor | Department of Kinesiology, U. of Waterloo |
| 2001 - 2002 | NSERC Postdoctoral Fellow | Department of Psychology, Wilfrid Laurier University |

1.3 Professional Certificates

- 2013: Meta-leadership in Simulation, SIMone, University of Toronto
2009: Scientist Knowledge Translation Training, University of Toronto

1.4 Professional Affiliations and Activities

1.4.a Leadership Roles

- 2019 – Present: Canada Research Chair in HealthCare Simulation (Tier 1)
2019 – Present: Founder and Co-Lead: maxSIMhealth (maxSIMhealth.com)
2015 – Present: Editor and channel administrator, Cureus Journal of Medical Science: Archives of Scholarship in Simulation and Educational Techniques (ASSET)
2016 – 2019: Research Director, Emergency Medicine
2014 – 2018: Academic Director, Clinical Learning and Simulation Centre
2013 – 2019: Founder and Co-Lead: Tuckamore Simulation Research Collaborative
2013 – 2016: Memorial Teaching and Learning Chair
2012 – 2014: Vice President, International Pediatric Simulation Society
2012 – 2013: Director, Research Mentorship Program, CACE, Women’s College Hospital
2007 – 2009: Director, Centre for Research in Nursing Education, Lawrence S. Bloomberg, Faculty of Nursing, University of Toronto
2005 – 2007: Director of Surgical Ed. Research Fellowship, Department of Surgery, University of Toronto

1.4.b International Committees and Boards

- 2017 – Present: Board of Directors, Simulation Canada
2014 – 2016: Board of Directors, National Academy for Simulation
2010 - 2014: Co-Chair, Research Committee, International Pediatric Simulation Society (IPSS)
2012 - 2014: Board of Directors member, International Pediatric Simulation Society (IPSS)
2009 – 2012: Co-Chair (with Dr. Miliard) Train the Trainer: Simulation Augmented Education in Sub-Saharan Africa Working Group

2009 – 2010: Co-Chair (with Dr. Paul Gamble) Canadian Network for Simulation in Healthcare, Programs for Educational Development Working Group

1.4.c Conference Committees

2017 Scientific Committee for the Rural and remote Healthcare Conference, Member
2017 Program Organizing Committee, Simulation Summit, Member
2016 Local Program Organizing Committee, Simulation Summit, Co-Chair
2014 Meeting Advisory Committee, Intentional Pediatric Simulation Symposia and Workshops, Member
2013 Meeting Advisory Committee, Intentional Pediatric Simulation Symposia and Workshops, Member
2009 Chair – International Conference on Health Professions Education, Centre for Research in Nursing Education, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto
2003 South Western Ontario Meeting, Department of Surgery, University of Toronto, Toronto, ON
2000 Canadian Society for Psychomotor Learning and Sport Psychology, University of Waterloo, Waterloo, ON
1999 South Western Ontario Meeting, University of Waterloo, Waterloo, ON
1997 South Western Ontario Meeting, University of Waterloo, Waterloo, ON

1.4.d University and Hospital Committees and Boards

2020 - present: Academic Council, Ontario Tech University, Member
2020 - present: maxSIMhealth Advisory Committee, Ontario Tech University, Chair
2020 - 2021: COVID-12 Virtual Simulation Committee, Ontario Tech University, Co-chair
2017- Present: Faculty Development Committee, Member
2017- 2019: Medical Research Fund Committee, Dean's Representative
2017- 2019: Simulation and Educational Technologies Fund Raising Committee, Co-Chair
2017- 2019: Strategic Planning Committee, Member and lead for the Research as well as Simulation and Educational Technologies working group.
2017- 2018: 50th Year Celebration Committee, Member and lead of the History of MUN working group
2016 CRC Chair Tier II Search Committee, Member
2016 - 2019: Research Committee, Emergency Medicine, Chair
2015 - 2019: Healers of Tomorrow, Aboriginal Health Office Outreach Camp, Member of Organizing Committee
2016 - 2019: Clinical Learning and Simulation Centre Research Committee, Member
2015 - 2019: Academic Council, Clinical Learning and Simulation Centre, Co-Chair
2014 Pediatric Chair Search Committee Member
2013 – 2019: Emergency Medicine Education Committee, Faculty of Medicine (Co-Chair)
2013 – 2019: Clinical Learning and Simulation Centre Research Committee, Faculty of Medicine, Co-Chair

- 2013 – 2019: Clinical Learning and Simulation Centre Education Committee, Faculty of Medicine, Co-chair
- 2013 – 2019: Clinical Learning and Simulation Centre Patient Safety and Quality Improvement Committee, Faculty of Medicine, co-Chair
- 2013 – 2019: Clinical Learning and Simulation Centre Infrastructure Committee, Faculty of Medicine, Co-Chair
- 2013 – 2019: Clinical Learning and Simulation Centre Advisory Board, Faculty of Medicine, Chair
- 2013 – 2019: Clinical Learning and Simulation Centre Senior Management Group, Faculty of Medicine, Member
- 2013 – 2019: Emergency Medicine Program Committee, Faculty of Medicine
- 2013 – 2013: Organizational Review Working Group, SickKids Hospital
- 2013 – 2013: Educational Scholarship Enhancement Committee, Department of Paediatrics, University of Toronto
- 2012 – 2013: Learning Institute simulation Steering Committee, Research Lead
- 2011 – 2013: Paediatric Consultants Committee, Department of Paediatrics, U. of T.
- 2011 – 2012: Co-Chair, Wilson Centre Website Committee
- 2011 – 2013: Education Development Fund Adjudication Committee, Member
- 2009 – 2013: Pediatric Consultants Research in Education Adjudication Committee, Member
- 2009 – 2013: Pediatric Consultants Education Development Adjudication Committee, Member
- 2009 – 2013: Education Development Fund Adjudication Committee, Member
- 2009 – 2013: Learning Institute simulation Steering Committee, Member
- 2009 – 2013: Learning Institute simulation Advisory Committee, Member
- 2009 – 2012: Institute of Medical Science, University of Toronto, Admissions Committee, Member
- 2009 – 2012: Co-Chair (with Dr. Byrne) International Programs
- 2008 – 2011: Wilson Centre/Network of Excellence in Simulation for Clinical Teaching & Learning (NESCTL), Research in Simulation Atelier, Member
- 2009 – 2010: Network of Excellence in Simulation for Clinical Teaching & Learning (NESCTL), Research Committee, Member
- 2008 – 2010: Centre for the Study of Students in Postsecondary Education, OISE, Advisory Board Member
- 2007 – 2009: Faculty of Nursing, Awards, Member
- 2007 – 2009: Faculty of Nursing, Lab and Technology, Member
- 2007 – 2009: Faculty of Nursing, Graduate Curriculum, Member
- 2007 – 2008: Faculty of Nursing, Research, Member
- 2006 – 2007: Clinician Investigator Program, Member
- 2005 – 2007: Research in Surgical Education Fellowship, Chair
- 2004 – 2007: Faculty Research Grants, Member
- 2002 – 2007: Surgical Skills Centre Core Curriculum Steering, Member
- 2002 – 2007: Surgical Education Fellowship, Member
- 2002 – 2007: Surgical Skills Centre Steering, Member

1.4.e Editorial

2015 - Present: Deputy Editor, Cureus Journal of Medical Science: Archives of Simulation Scholarship and Educational Techniques.
2009 – Present: Associate Editor, BMC Medical Education
2008 – 2010: Editor, Journal of Health Professions Education

1.4.f Ad hoc Journal Reviewer

2017-present: BMS Medical Education
2016-present: Cureus Journal of Medical Science
2014-present: Advances in Health Sciences Education
2013-present: Society for Simulation in Healthcare
2013-present: International Journal of Nursing Practice
2012-present: Journal of Advanced Nursing
2012-present: Journal of Advanced Nursing
2011-present: Pain Education
2010-present: Education Research
2006-present: Medical Education
2005-present: Surgical Research
2004-present: Neuroscience Letters
2004-present: Canadian Journal of Surgery
2003-present: American Journal of Surgery
2002-2013: Journal of Motor Behaviour
2001-2013: Research Quarterly for Exercise and Sport

1.4.g Memberships

- International Paediatric Simulation Society
- Society for Simulation in Healthcare
- Society of American Gastrointestinal Endoscopic Surgeons
- Canadian Undergraduate Surgical Education Committee
- Canadian Society for Psychomotor Learning and Sport Psychology
- Society for Neuroscience
- Society for the Neural Control of Movement
- North American society for Sport Psychology and Physical Activity
- The Association for Surgical Education
- Association for Medical Education in Europe

2.0 SCHOLARSHIP

2.1 Research Awards

Note: * indicates the work of my graduate students
PI: Principal investigator
Co-PI: Co-Principal Investigator
Co-I: Co-Investigator

Col: Collaborator

2.1.a Tri-council Funding

1. Peisachovich, E., **Dubrowski, A.**, Da Silva, C., Kapralos, B., Sinclair, D., Jokel, R., Appel, L., Mahdiah, D., and Maheux-Pelletier, G. 2021. Social Sciences and Humanities Research Council Insight. AREduX Augmented Reality Experience and Experiential Education Medium to Teach Empathy To Healthcare Providers and Caregivers of Persons Living with Dementia. September 2021-August 2024 \$ 277,866. [Co-PI]
2. Dubrowski A, Kapralos B, Torres, A. Enhancing Educators' Experience with a Collaborative Learning Management System (GEN-LMS). Social Sciences and Humanities Research Council Explore Grant 2020-2021 \$7,000
Dubrowski A, Momand, B. A Podcast Series to Disseminate Simulation Research and Innovation. Social Sciences and Humanities Research Council Exchange Grant 2020-2021 \$2,000
3. Canadian Institute for Health Research: HealthCare Simulation. *Canada Research Chair (Tier 1)*. **Dubrowski A.** (PI). 2019-2026 (\$1,400,000)
4. Canadian Foundation for Innovation: John R, Evans Leaders Fund 3D Network for Immersive Simulation in Healthcare. **Dubrowski A.**(PI). 2019. (\$75,000)
5. Natural Sciences and Engineering Research Council of Canada, Research Tools and Infrastructure (Research Tools and Instruments - Category1). Serious games development and testing facility: Developing serious games that maximize knowledge transfer and retention. Kapralos B, (Co-PI), **Dubrowski A.** (Co-PI). 2013. (\$28,993).
6. Canadian Patient Safety Institute and the Canadian Institutes of Health Research. Partnerships for Health Improvement/Building Skills, changing practice: simulator training for hand hygiene protocols. McGeer A, **Dubrowski A** (Co-PI), Beduz M. A. 2009-2011. (\$425,616).
7. CIHR-Community Alliances for Health Research & Knowledge Exchange on Pain, J. Henry (PI) \$2,500,000. Theme 2: E-learning interprofessional curriculum resources for pre- licensure health science students across Canada. Watt-Watson J. (PI), McGillion M, Lax L, Hunter J, **Dubrowski A** (Co-PI). 2008-2012. (\$350,000).
8. Social Science and Humanities Research Council of Canada; Image, Text, Sound and Technology Program. Interactive community simulation environment for Public Health curriculums. Kapralos B, *Hogan M, Muirhead B, **Dubrowski A** (Col), 2009-2010. (\$49,452).
9. Collaborative Health Research Projects (NSERC/CIHR). Integration of bio-physiological information with a point-of-care decision support system for safer patient care. Doran DM, Goubran R, Doherty S, Knoefel F, **Dubrowski A** (Co-I). Industry partner collaborators: Graves A (Nortel), Smith A (Hinext), RIM, Lefebvre N (Saint Elizabeth Healthcare), Remus S (St. Michaels Hospital). 2008-2010. (\$455,310).
10. Natural Sciences and Engineering Research Council. Self regulated motor learning: mechanisms and application. **Dubrowski A** (PI). 2008 – 2013. (\$75,000).
11. Natural Sciences and Engineering Research Council of Canada. Optoelectric three dimensional motion analysis system. 2003-2004. A. Dubrowski (PI). (\$75,065).
12. Natural Sciences and Engineering Research Council of Canada. Motor adaptations to sensory perturbations. 2003-2006. A. Dubrowski (PI). (\$100,000).

2.1.b Ministry and Government Funding

13. **Dubrowski, A.** Development and Validation of a Needle Decompression Simulator to Support the Acquisition and Maintenance of Advanced Care Paramedics Skills. Mitacs and Lakeridge Health September 2021-August 2022 \$75,000. [PI]
14. Da Silva, C., Kapralos B, Peisachovich E, Coffey, S, **Dubrowski A.**, Anyinam C., Graham, and L. Maheux-Pelletier, G. International Educated Nurse-Centered Virtual Serious Game, ecampus Ontario March 2021-February 2-22 \$77,396. [Col]
15. Mitacs Accelerate. Development and Validation of a Needle Decompression Simulator to Support the Acquisition and Maintenance of Advanced Care Paramedics Skills. 2021-2023. **Dubrowski, A** (PI). (\$75,000).
16. Teaching City Grant. Using an innovative tool to teach and test cultural competencies to enhance age-friendly communities. **Dubrowski A**, Kapralos B, *Mutombo P, *Torres A. City of Oshawa. \$20,000. August 2020 - July 2021.
17. Ministry of Economic Development, Job Creation and Trade (MEDJCT). 3D Network for Immersive Simulation in Healthcare. **Dubrowski A.** (PI). 2019. (\$75,000)
18. Atlantic Canada Opportunities Agency. Healthcare Solutions, Medical Education and Three-dimensional Printing in Newfoundland and Labrador. **Dubrowski A (PI)**, Bartellas M, Ryan S, Paterno G. 2017-2019. (\$1,450,000)
19. Memorial Chairs of Teaching and Learning. Building Simulation Teaching and Scholarship Capacity in Rural and Remote Newfoundland and Labrador. **Dubrowski, A.**, (PI). 2015-2017. (\$30,000).
20. Ministry of Health and Long Term Care via SIM-one Simulation Research Grant. A Serious Game for Medical-Based Cultural Competence Education and Training. Kapralos, B., **Dubrowski, A.** (Co-PI), Randall, N., Brudnoy, L., Sheppard, A., Yoksimovitch, M., Collins, K., Haji, F. 2013-2014. (\$25,000).
21. Ministry of Health and Long Term Care via SIM-one Simulation Research Grant. Observational Practice and Educational Networking : Extending the Simulation-based Education beyond the Simulation Laboratory. Grierson, L., **Dubrowski, A.**, Kapralos, B., Brydges, R., Bernard, C., Musson, D. 2013-2014. (\$25,000).
22. Whitehead, C., **Dubrowski, A.** (Co-PI), McCarthy, L., Carnahan, H., Kapralos, B., Cheung, J. H. Assessing the interest, acceptability, and usability of social networking to support a primary care patient-centered model for vulnerable older adults. Women's College Hospital, AFP. (\$30,000).
23. Workers Compensation Board (WCB) of Manitoba, Research and Workplace Innovation Program (RWIP). Development and testing of a serious game to decrease injury in the fire service by training safer lifting techniques and decision making skills. Murphy B, **Dubrowski A** (Col), Hogue AR, Kapralos B, McLellan TM, Mior SA, Triano J, Passmore SR. 2012-2014. (\$199,167).
24. Nursing Secretariat of the MOHLTC Evaluation of mobile information technology to improve nurses access to and use of research evidence: Phase I. Doran DM, Straus S, Haynes B, Grimshaw J, McGillis Hall L, Kushniruk A, **Dubrowski A** (Co-I). 2007-2008. (\$210,000).
25. Canadian Space Agency: Studies and Concepts for Exploration – Category F: Medical Autonomy. Development of a training and maintenance of competence program for

remote care health providers. Hodges G, **Dubrowski A** (Co-PI), Gray G, Musson D, Saary J. 2008. (\$80,000).

2.1.c International Funding

26. Canada-Latin America and the Caribbean Research Exchange Grants (LACREG). Building Capacity for Effective Simulation Augmented Training of Health Care Workers: Development, Implementation and Evaluation of a Sustainable Program. **Dubrowski, A.** (PI), Norceide, C. 2015-2016. (\$15,000).
27. Cooperative Research Project at RIE, Shizuoka University, Research Institute of Electronics, Shizuoka University, Japan. Multimedia interaction interfaces in collaborative e-Learning environments. Kapralos B, Jenkin M, Vassileva J, Taki H, Nonaka H, Collins K, **Dubrowski A** (Co-I), Matsuda N, Todorova N, Vynnycky M, Hogue A, Nacke L, Brimkov B, Sakai S, Inokowa H, Kanev M. 2012-2013. (\$8,000.00).
28. Development Partnership in Higher Education: British Council. A training cascade for Ethiopian surgical and obstetrical care: An interprofessional, educational, leadership and skills training program. Derbew M, **Dubrowski A** (Co-PI), Kneebone R. 2008-2011. (\$130,000).
29. German Space Agency (DLR). The influence of weightlessness on sensorimotor. Schneider S, Struder H, Kleinert J, **Dubrowski A** (Col) and 6 other collaborators). 2005-2007. (\$200,000).

2.1.d Other Funding

30. Tavares, W., Alam, F., Matava, C., Kapralos, **Dubrowski, A.** and Brydges, R. Exploring the validity of virtual clinical performance assessments. The Medical Council of Canada, Research in Clinical Assessment Grant Competition. June 2020 - May 2021 \$37,444 [Col]
31. Teaching and Learning Framework (TLF) St. John's Campus Funding Competition. SPIRALS: A New Cognitive Approach to Teaching and Learning Clinical Reasoning in Emergency Medicine. Renouf T, **Dubrowski A** (Co-PI). 2016-2018. (\$21,220.00)
32. Teaching and Learning Framework (TLF) St. John's Campus Funding Competition. Measuring the Effectiveness of High Fidelity Simulation in Inter-professional Education to Foster Teamwork Among Senior Nursing, Medicine and Pharmacy Students. MacDoanld S, **Dubrowski A** (Co-I), et al. 2016-2018. (\$41,989.00)
33. Dean's Innovation Fund (MRF) Spring Awards: Country Mouse, City Mouse: Examining Communication Barriers Between Rural Physicians and Urban Consultants in Newfoundland and Labrador. Renouf T, **Dubrowski A** (Co-PI), et al. 2016-2018. (\$20,000.00)
34. Mitacs Accelerate. An acute care telemedicine/telemetering research platform for offshore and remote environments. Sheheta, M., Smith, A., **Dubrowski, A.** (Co-I) 2015 (\$30,000).
35. Seed, Bridge & Multidisciplinary Fund Competition. An acute care telemedicine/telemetering research platform for offshore and remote environments. Sheheta, M., Smith, A., Carnahan, H., **Dubrowski, A.** (Co-I). 2015-2016. (\$30,000).

36. Research Development Company (RDC). Extending Simulation-based Learning beyond the Simulation Laboratory Using Social Networking and Gaming Elements. **Dubrowski, A.** 2015-2016. (\$100,000).
37. Cross-Campus Initiatives (Vice-Provost Memorial University Fund). Tuckamore: Building an interdisciplinary Network of scholarship to strengthen the use of simulation resources across Newfoundland. **Dubrowski, A.** (Co-PI), Renouf. T. (Co-PI), Bluehardt, M., Carnahan, H., Colbourne, P., Hearn, C., Hensman, L., Jong, M., MacDonald, S., Manuel, A., Peters, S., Rolfe, P. Sparkes, J. 2013-2014. (\$9,000).
38. Deans Endowment Enrichment Fund (Faculty of Dentistry, University of Toronto). Communication Skills Training: An Integrated On-Line and Classroom Design using Standardized Patients and Peer Role Playing. Dempster, L., Lam, E., Burgess, K., Posluns, J., **Dubrowski, A.** (Col), Cheng, J., Kapralos, B., McKay, L. 2013-2014. (\$10,192).
39. The Royal College of Physicians and Surgeons of Canada: Medical Education Research Grant. The effect of simple-to-complex sequencing on skill acquisition, retention & cognitive load in surgical training. *Haji F (Co-PI), **Dubrowski A** (Co-PI), Drake J (Co-I), deRibaupierre S (Col), 2012-2012. (\$37,080).
40. J. P. Bickell Foundation. Usability testing of virtual and physical simulation resources for training off-pump coronary artery bypass surgery. Cristancho S, Kiaii B, **Dubrowski A** (Co-I), *Moussa F, and Kapralos B. 2011-2012. (\$28,820).
41. Paediatric Consultants Education Research Grant. Testing the effectiveness of an Internet mediated, video based, educational networking instrument in preparing trainees for simulation-based teaching of fundamental technical skills: randomized control study. **Dubrowski A** (PI), Pirie J, Kapralos B, *Grierson L, Carnahan H. 2010. (\$5,000).
42. Inukshuk Wireless Content Development Projects. Development of a virtual learning environment for interprofessional education in critical care. Kapralos B, **Dubrowski A** (Co-I), *Hogan M, Mallette M, Hogue A, Shi W, Goldsworthy S. 2009 – 2010. (\$133,000).
43. The Network of Excellence in Simulation for Clinical Teaching and Learning, Innovations and Evaluation Projects. Effectiveness of an Internet mediated, networked learning instrument in simulation based training of clinical tasks. **Dubrowski A** (PI), Barry M, Carnahan H, Kapralos B, MacDonald-Jenkins J, Rose D, Safir O, Backstein D. 2009-2010. (\$37,128).
44. The Network of Excellence in Simulation for Clinical Teaching and Learning, Innovations and Evaluation Projects. Linking learning objectives with simulators – Understanding how health care professionals learn clinical tasks using simulation. Brydges R, **Dubrowski A** (Co-PI), Mallette C, Pollex H, Carnahan H. 2009-2010. (\$35,452.93).
45. Network of Excellence in Simulation for Clinical Teaching and Learning Fund. Efficacy and quality of deteriorating patient-based simulation versus standardized patient-based simulation for improving health care professionals' pain knowledge and assessment skills: A pilot equivalence randomized controlled trial. McGillion M, **Dubrowski A** (Co-PI), McCartney C, Stremler R, Watt-Watson J, Silver I, Stinson J, Hunter J, Nelson S, Costello J, Tait G, Victor C, Snell L, Wiseman J, Dao T, Regehr C, Robb A, Carnahan H, Leegaard M. 2008-2009. (\$49,126).

46. Network of Excellence in Simulation for Clinical Teaching and Learning Fund. Faculty development for simulation for clinical teaching and learning. Leslie K, Reeves S, LeBlank V, Lingard L, Morgan P, Niak V, Ballon B, Satterthwaite L, Robb A, Silver I, Pittini R, Cop S, Bandali K, **Dubrowski A** (Co-I). 2008-2009. (\$83,999).
47. Network of Excellence in Simulation for Clinical Teaching and Learning Fund. Development of a training program to teach teachers how to implement a simulation-based curriculum in obstetric emergencies for interprofessional teams. Windrim R, Seaward G, Lausman A, Pittini R, Biringer A, Kasperski J, Nelson S, Jefferies A, Yoo Ten E, Campbell C, Wax R, **Dubrowski A** (Co-I), Tabak D, Silver I. 2008-2009. (\$14,810).
48. University of Toronto Centre for the Study of Pain Fund. A pilot non-inferiority randomized controlled trial of three simulation learning conditions for interfaculty pre-licensure education on pain assessment. McGillion M, Watt-Watson J, Hunter J, **Dubrowski A** (Co-I), Stinson J, Lax L, Raman-Wilms L, Cameron A, Cockburn L, Schreiber M, Dao T. 2008- 2009. (\$20,000).
49. Physicians' Services Incorporated. Effect of bench-model training on cognitive learning in the operating room. Syed KA, Backstein D, **Dubrowski A** (Co-I). 2007-2008. (\$32,000).
50. Physicians' Services Incorporated. Self-regulated scheduling of practice of a complex technical surgical skill in surgical residents. Safir O, Carnahan H, **Dubrowski A** (Co-I), Backstein D. 2006-2007. (\$24,000).
51. Royal College of Physicians and Surgeons. Self-regulated scheduling of practice of a technical surgical skill in medical trainees. Safir O, Carnahan H, **Dubrowski A** (Co-I), Backstein D 2006-2007. (\$24,272).
52. Education Development Fund. Educational value of pre-training fundamental skills in surgical clerkship rotations. **Dubrowski A** (PI), *Kurahashi A, Backstein D. 2006-2007. (\$20,000).
53. Arthroscopy Equipment Fund. Liventek Canada Inc, Safir O, Carnahan H, **Dubrowski A** (Co-I), 2006-2007. (\$100,000).
54. Abbott – CARO Uro-Oncologic Radiation Award (ACURA). The effectiveness of an educational intervention on the congruence of prostate and rectal contouring as compared to a gold standard in planning for three-dimensional radiotherapy for prostate cancer (3D-CRT). Szumacher E, Crook J, **Dubrowski A** (Co-I), Harnett N, Kelly V, Danjoux C, Woo M, Barker R, Ackerman I. 2006-2007. (\$10,000).
55. The Royal College of Physicians and Surgeons of Canada: Medical Education Research Grant. The effects of bench-model practice of technical surgical task on attentional demands and cognitive learning ability. **Dubrowski A** (PI), MacRae H, Moulton C. 2006-2007. (\$24,881).
56. Dean's Excellence Fund for Medical Education. Self-assessment of technical surgical ability by medical student and its impact on training: A randomized controlled study. **Dubrowski A** (PI), Jowett* HN, LeBlanc V, MacRae H. 2006-2007. (\$28,620).
57. Dean's Excellence Fund for Medical Education. Use of hand motion and applied force characteristics in the evaluation of spinal pedicle screw insertion. Woodrow, S. (PI), Massicotte, E. (PI), Dubrowski, A. (PI). (\$6,181).
58. The Royal College of Physicians and Surgeons of Canada: Medical Education Research Grant. Validation of tensiometry as a measure of technical skill performance. **A.**

- Dubrowski** (PI), G. Xeroulis* (Co-PI), S. Woodrow (Co-PI), R. Reznick (Co-I). 2005-2006. (\$24,172).
59. Physicians' Services Incorporated. Teaching surgical skills: Massed versus distributed practice. C. Moulton* (Co-PI), **A. Dubrowski** (Co-PI), H. MacRae (Co-PI), R. Reznick (Co-PI). 2005-2006. (\$43,000).
 60. The Royal College of Physicians and Surgeons of Canada: Medical Education Research Grant. Acquisition of Complex Technical Skills: How does Laboratory Training Compare to Traditional Operating Room Learning? R. S. Sidhu (PI), **A. Dubrowski** (Co-I), J. D. S. Reid (Co-I), E. M. Webber (Co-I), K. Qayumi (Co-I). 2004-2005. (\$20,920).
 61. The Royal College of Physicians and Surgeons of Canada. Effects of evaluative stress on surgical skills. V. LeBlanc (PI), **A. Dubrowski** (Co-I), S. Woodrow (Co-I), R. Sidhu (Co-I). 2004-2005. (\$24,889).
 62. Physicians' Services Incorporated. Effect of sleep deprivation on resident surgeon psychomotor skills. S. Woodrow (PI), M. Bernstein (Co-I), B. Murray (Co-I), **A. Dubrowski** (Co-I), R. K. Reznick (Co-I), S. J. Hamstra (Co-I). 2004-2005. (\$108,153).
 63. Dean's Excellence Fund for Medical Education. Optimization of the faculty to resident ratio when teaching fundamental surgical skills. **A. Dubrowski** (PI), H. MacRae (Co-I). 2003-2004. (\$22,275).
 64. Physicians' Services Incorporated. The effects of part-whole practice on acquisition and retention of long bone plating orthopedic procedure. D. Backstein (PI), **A. Dubrowski** (Co-PI), H. Carnahan (Co-I). 2003-2004. (\$27,400).
 65. Faculty of Medicine Dean's Fund. Use of hand motion and applied drilling force characteristics in the evaluation of surgical bone drilling task. **A. Dubrowski** (PI), D. Backstein (Co-I). 2003-2008. (\$10,000).
 66. The Royal College of Physicians and Surgeons of Canada. Optimizing surgical training outside of the operating room: An impact analysis of surgical experience and model fidelity on skills acquisition. **A. Dubrowski** (PI), R. Sidhu (Co-I), H. McRae (Co-I). 2003-2004. (\$24,700).
 67. Physicians' Services Incorporated. The effects of progressively more challenging practice on the acquisition of laparoscopic suturing. H. MacRae (PI), **A. Dubrowski** (Co-PI), C. Schlachta (Co-I). 2003-2004. (\$16,900).

2.2 Funded Partnerships

1. **Dubrowski A.**, Kapralos B. Mutombo P. and Torres A. Using an innovative tool to teach and test cultural competencies to enhance age-friendly communities. Teaching City Grant, City of Oshawa. Aug 2020-Jul 2021 \$20,000. [PI]
2. **Dubrowski A.** Augmented Reality fire extinguisher training for personnel. Montfort Hospital - Hôpital Montfort, 2020-2021 \$4,434.08
3. **Dubrowski A.** Forceps simulator project – Virtual training program in a surgical procedure. Women's College Hospital - University of Toronto. 2021-2025 \$67,200

2.3 Unfunded Partnerships and Industry-Research Collaborations

1. The Central East Prehospital Care Program, Lakeridge Hospital
2. National University of Singapore-Serious Games Asia

3. Faux Medical
4. Medico Ao Extremo-Madrecor (Brazil)-Memorial University North South Collaborative
5. University of Montreal Health Centre, Department of Surgery
6. Women's College Hospital, Toronto, Ontario, Canada
7. Sunnybrook Hospital, Toronto, Ontario, Canada
8. Institut du Savoir Montfort, Ottawa, Ontario, Canada
9. Klick, Toronto, ON, Canada
10. Department of Public Health, Durham Region, Whitby, ON, Canada
11. Lakeridge Health Hospital, Oshawa, ON, Canada
12. PolyUnity, St. John's, NL, Canada
13. Alpha Labs, Toronto, ON, Canada
14. VR Vision, Toronto, ON, Canada
15. SunInnovations, Toronto, ON, Canada
16. Sonosite (FujiFilms), St. John's, NL, Canada
17. Cook Medical, St. John's, NL, Canada
18. Quanser, Toronto, ON, Canada
19. Hand Shake, Waterloo, ON, Canada
20. Liventek Canada, Toronto, ON, Canada

3.0 PUBLICATIONS

Note: * indicates work of my graduate students

SRA – Senior Responsible Author

PA – Principle author

Col – Collaborator

3.1 Peer-reviewed Publications

1. **Dubrowski A**, Kapralos B, Peisachovich E, Da Silva C., *Torres A. (March 23, 2021) A Model for an Online Learning Management System for Simulation-Based Acquisition of Psychomotor Skills in Health Professions Education. *Cureus Journal of Medical Science* 13(3): e14055. doi:10.7759/cureus.14055
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3.3 Book Chapters

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4.0 PRESENTATIONS AND SPECIAL LECTURES

4.1 Papers Presented at Meetings and Symposia

4.1.a Conference Presentations

1. Guérard-Poirier, N., Beniey, M., Meloche-Dumas, L., Torres, A., Dhane, M., Kapralos, B., Mercier, F., **Dubrowski, A.**, Patocskai, E. Virtual Simulation in Medical Education for the Acquisition of Fundamental Surgical Skills: a Randomized Controlled Trial, The Royal College Simulation Summit, Virtual, Nov. 4-5, 2021. [accepted]
2. Guérard-Poirier, N., Beniey, M., Meloche-Dumas, L., Torres, A., Dhane, M., Mercier, F., **Dubrowski, A.**, Patocskai, E. La Pédagogie Chirurgicale en temps de COVID-19: l'enseignement des points de suture avancés entre pairs à travers une plateforme en ligne, L'Association Québécoise de Chirurgie (AQC) – 51e Congrès annuel 2021, Virtual, Montréal, QC, May 21, 2021.
3. Guérard-Poirier, N., Beniey, M., Meloche-Dumas, L., Torres, A., Dhane, M., Mercier, F., **Dubrowski, A.**, Patocskai, E. La Pédagogie Chirurgicale en temps de COVID-19: l'enseignement des points de suture avancés entre pairs à travers une plateforme en ligne, Journée annuelle de la recherche du Centre de pédagogie appliquée aux sciences de la santé (CPASS), Université de Montréal, Virtual, Montréal, QC, May 19, 2021
4. Hollaender, G., Jandu, J, Uribe-Quevedo, A., **Dubrowski, A.** Prototyping an Augmented Reality Makerspace Microscope for Histology Education: Pilot Usability Assessment. International Meeting on Simulation in Healthcare (IMSH 2022), January 15, 2022, Los Angeles, CA, US [accepted]
5. Hosseini, Z., **Dubrowski, A.**, Gamble, B. Effects of Virtual Simulation-based Interprofessional Education on Nursing and Medical Lab Technician Students. International Meeting on Simulation in Healthcare (IMSH), January 15, 2022, Los Angeles, CA, US [Accepted].
6. *Buttu, D., *Torres, A., Kapralos, B., Gino, B., Benson, A., Dubrowski, A. The Development of A Virtual Education Simulation of an Adult Proximal Tibia Model for Intraosseous Insertion. MEI 2021 4th International Conference on Medical Education Informatics. Virtual, The University of Nottingham, UK and the University of Malaya, Malaysia. 12-15 July 2021. [presented]
7. *Barth, B. K., *Micallef, J., *Arutiunian, A., *Wang, J., Chorney, D., Salmers, E., & Dubrowski, A. Curricular integration of 3D printed simulators to support home based practice in a nursing program: Development and evaluation of efficacy and realism. MEI 2021 4th Annual International Conference on Medical Education Informatics, Virtual. The University of Nottingham, UK and the University of Malaya, Malaysia. 12-15 July 2021. [presented]
8. *Mutombo, P., *Torres, A., Kapralos, B., Gamble, B., Momand, B., Adams C., Lawson, L., Da Silva, C., Dubrowski, A. Seniors Cultural Competency Virtual Learning Environment (SCCVLE): An Innovative Education Tool to enhance

- Competencies. MEI 2021 4th International Conference on Medical Education Informatics. Virtual, The University of Nottingham, UK and the University of Malaya, Malaysia. 12-15 July 2021. [presented]
9. *Clarke, K. M., Barari, A., Hogue, A., & **Dubrowski, A.** Combining 3D Printing and Crowdsourcing into an Online Application to Improve Remote Simulation-Based Education for Health Professions Education Trainees. 4th International Conference on Medical Education Informatics (MEI 2021). Online. July 12-15, 2021. [presented]
 10. *Micallef, J., *Arutiunian, A., & **Dubrowski, A.** The development of an intramuscular injection simulation for nursing students. 8th Edition of Virtual Conference on Nursing Education & Practice. Santa Clara, California. July 15-16, 2021 [presented]
 11. *Clarke, K. M., Barari, A., Hogue, A., **Dubrowski, A.** Supporting Home-Based Health Education by Using a Crowdsourced 3D Printing Application to Produce Simulation Models. 2021 Virtual Simulation Summit (SIMSummit 2021). Online. November 4 - 5, 2021.[accepted]
 12. *Clarke, K. M., Barari, A., Hogue, A., **Dubrowski, A.** Utilizing a Novel, Crowdsourced Three-dimensional Printing Application to Produce Simulation Models for At-Home Health Professions Learners. The 22nd International Meeting on Simulation in Healthcare (IMSH 2022). Los Angeles, California, USA. January 15 - 19, 2022. [accepted]
 13. *Mutombo, P., Torres, A., Kapralos, B., Gamble, B., Momand, B., Adams C., Lawson, L., Da Silva, C., and **Dubrowski, A.** Using Community-Based Participatory Research to build an Innovative Virtual Environment to Enhance Age-friendly Cultural Competencies. IFAs 15th Global Conference on Ageing "Rights Matter", November 9-12, 2021, Niagara Falls, ON, Canada [accepted]
 14. *Wahab, S., Smeeton, D., Kapralos, B., **Dubrowski, A.** Development and testing of a virtual simulation training module to teach microtomy. 2021 Simulation Summit. Virtual Conference. November 4 - 5, 2021. [accepted]
 15. Mnaymneh, M., vanOostveen, R., **Dubrowski, A.**, & Kapralos, B. (Accepted). Exploring Virtual Environments using Activity Theory for the design and evaluation of group praxis. Royal College of Physicians and Surgeons of Canada Simulation Summit. Nov. 4-5, 2021. <https://simsummit.royalcollege.ca/>
 16. *Barth, B. K., *Micallef, J., *Arutiunian, A., *Wang, J., Chorney, D., Salmers, E., & **Dubrowski, A.** Curricular integration of 3D printed simulators to support home based practice in a nursing program: Development and evaluation of efficacy and realism. 2021 Simulation Summit, Royal College of Physicians and Surgeons Canada. November 4-5, 2021.
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 24. da Silva, C., Torres, A., Kapralos, B., Peisachovich, E., **Dubrowski, A.**, Baltazar, V., Qureshi B., and Caraballo, N. Person-centered Virtual Serious Games: Mental Health Education, COMPSAC 2021: Intelligent and Resilient Computing for a Collaborative World, 12-16 July 2021, doi: 10.1109/COMPSAC51774.2021.00196 [presented]
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 27. A. Torres, B. Kapralos, C. Da Silva, E. Hava Peisachovich, and **A. Dubrowski.** A scenario editor to create and modify virtual simulations and serious games for mental health education. In Proceedings of the Twelfth International Conference on Information, Intelligence, Systems and Applications (IISA 2021), 12-14 July 2021, Crete, Greece, 3 pages.
 28. **A. Dubrowski**, B. Kapralos, E. Patocskai, A. *Torres, A. *Arutiunian, S. *Wahab, T. *Weber, and *M. Mnaymneh. Virtual health experiential learning platform (HELP) - utilizing gamified educational networking and three-dimensional printing for distance training. In Proceedings of The Learner: Twenty-eighth International Conference on Learning, July 9-11, 2021, Krakow, Poland.

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32. C. Cancelliere, A. **Dubrowski**, B. Kapralos, S. Mior, P. Côté, B. Muirhead, and R. Dubrowski. TeleSim MSK for musculoskeletal rehabilitation professionals. In Proceedings of the 14th International Multi-Conference on Society, Cybernetics and Informatics (IMSCI 2020), September 13-16, 2020 – Virtual Conference, pp.139-143.
33. *Malik Z, *Clarke K M, *Gavilanez K, *Jamal K, *Jolly AK, *Siraj S, Gino B, **Dubrowski A.** (2021) Using Simulation-Based Medical Learning Through Research, Development, and Manufacturing with a Collaborative Approach to Close Healthcare Gaps. *Cureus* 13(4): e. Presented at Faculty of Health Sciences Annual Research Day 2021
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Dubrowski R, **Dubrowski A**, Richards P. Using Implementation Science. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
36. **Dubrowski A**, Whalen A, Steele M. Building simulation scholarship and research capacity in undergraduate medical education curriculum though deliberate publication. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
37. Bishop NS, Goudie C, Walsh, G Lea T, **Dubrowski A.** Implementation of biomedical 3D print labs in rural Newfoundland and Labrador. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
38. **Dubrowski A**, Ryan S, Bartellas M, Pickett T, Hoover K, Paterno G. The coldest 3D print on earth for simulation based education. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
39. Alani S, Jong M, Dubrowski A, Northern aeromedical evacuation: A lens into an extreme environment simulation-based workshop in Labrador for health professionals and trainees. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.

40. Addison R, Rohr L, **Dubrowski A**. The role of the challenge point framework in surgical skill training: Interaction between learner cognitive load and performance. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
41. Rodriguez-Qizilbash S, Boulva K, Guilarte L, Lazizi S, **Dubrowski A**, Wassef R, Godbout V, Patocskai E. A pilot trial examining the effect of gratitude journaling on the wellbeing of medical students during their surgical clerkship. \ CUSEC 2018.
42. Rodriguez-Qizilbash S, Boulva K, Thivierge-Southidara M, Rabipour D, Al Khaldi M, **Dubrowski A**, Wassef R, Godbout V, Patocskai E. An interim report of a randomized controlled study comparing the effectiveness of simulation versus an educational video versus no intervention on awareness and reporting of intimidation during medical clerkship. CUSEC 2018.
43. Rodriguez-Qizilbash S, Boulva K, Thivierge-Southidara M, Rabipour D, Al Khaldi M, **Dubrowski A**, Wassef R, Godbout V, Patocskai E. A pilot randomized controlled study comparing the effectiveness of simulation versus an educational video versus no intervention, as adjuncts to didactic lectures, on awareness and reporting of intimidation during medical clerkship. Accepted for oral presentation, Simulation Summit, Montreal, November 2017.
44. Renouf T, Pollard M, **Dubrowski A**. Developing Research Capacity in a New Discipline. Invited presentation, University of Otago, Dunedin NZ. Feb 2017. <http://www.otago.ac.nz/news/events/otago634349.html>
45. Renouf T, Pollard M, Fleet L, Abbott C, *Whelan D, **Dubrowski A**. SPIRALS: A New Cognitive Approach to Clinical Reasoning in the Emergency Department In: AMEE 2017 Abstract Book.; August 26-30, 2017; Helsinki, Finland.
46. *Williams KL, Pollard M, Renouf T, **Dubrowski A**. Pitfalls in Emergency Medicine:
47. Survey-based identification of learning objectives for targeted simulation curricula by emergency department (ED) staff. AMEE, August 26-30, 2017, Helsinki, Finland.
48. Smith A, *Addison R, Rogers P, **Dubrowski A**. Remote training of point of care ultrasound skills – is a cellphone ‘good enough’? 5th World Congress, Ultrasound in Medical Education, 2017.
49. Renouf T, Horwood C, Metcalfe B, **Dubrowski A**: CAEP Academic Section Innovations invited contribution and interview with Dr. Chris Bond “ASSET: Building an Educational Community of Practice.” August 2016. Retrieved from http://caep.ca/CAEP_FEIs
50. Renouf T, *Whelan D, Jong M, **Dubrowski A**. Simulation for low resource settings (Society for Rural Physicians of Canada meeting. Charlevoix Quebec. May 5, 2016.
51. Renouf T, *Whalen D, Pollard M, **Dubrowski A**. SPIRALS: A new cognitive approach to learning in the emergency department. Simulation Summit, October 14-15, 2016, St. John’s, NL
52. Parsons M, Pollard M, **Dubrowski A**. Development of an emergency medicine simulation book to facilitate use of simulation-based medical education. CAEP, June 4-8, 2016, Quebec City, Quebec.
53. Parsons M, Pollard M, **Dubrowski A**, Smith A. (2016). Development and evaluation of a Mobile Simulation Lab with Acute Care Telemedicine Support. CAEP, June 4-8, 2016, Quebec City, Quebec.
54. Renouf T, *Whalen D, Pollard M, **Dubrowski A**. Emergency physicians think in spirals. CAEP, 2016.

55. Parsons M, Renouf T, Alani S, **Dubrowski A**. Low Fidelity Simulation For Remote And Low-Resourced Settings: A Cricothyroidotomy (And Bougie-Assisted) Model. Medical Education Scholarship Centre Forum, 2015
56. *Whalen D, *Harty C, *Black H, *Murphy J, *Alani S, Renouf T, **Dubrowski A**. Ultrasound in the Undergraduate Curriculum. Royal College of Physicians and Surgeons Simulation Summit, Banff AB, November 24-26 2015
57. Renouf T, *Whalen D, Pollard M, **Dubrowski A**. Emergency physicians think in spirals. Medical Education Scholarship Centre Forum, St. John's NL, December 1, 2015.
58. Renouf T, *Whalen D, *Harty C, **Dubrowski A**. An Examination of Communication Barriers between Rural Family Physicians and Urban Consultants in Newfoundland and Labrador. Medical Education Scholarship Centre Forum, St. John's NL, December 1, 2015.
59. Parsons M, Wadden K, Pollard M, **Dubrowski A**, Smith A. Development of a Mobile Simulation Lab with Acute Care Telemedicine Support. Medical Education Scholarship Centre Forum, St. John's NL, December 1, 2015.
60. **Dubrowski A**, Renouf T, Smith A, Alani S, Parsons M, Hearn C, Brown R. A comparison of clinical skills performance on both stationary and moving platforms. 13th International Symposium on Maritime Health, Bergen Norway June 23, 2015. Oral presentation.
61. Renouf T, *Whalen D, Harty C, Alani S, Coombs-Thorne H, **Dubrowski A**. Country Mouse and City Mouse, an examination of communication between rural physicians and urban consultants. AMEE Sept 2015, Glasgow, Scotland. Poster presentation. <http://www.amee.org/amee-news/amee-2015-abstract-book>
62. Renouf T, Parsons M, Rogers P, Alani S, **Dubrowski A**: CAEP Academic Section Innovations invited contribution and interview with Dr. Ken Milne, "Tuckamore Simulation Research Collaboration" March 2015
63. Parsons M, Rogers P, Renouf T, Alani S, **Dubrowski A**. Great Evidence in Medical Education, CAEP Academic Section invited contribution March 2015: review of: Improving faculty feedback to resident trainees during a simulated case: a randomized, controlled trial of an educational intervention.
64. **Dubrowski A**, Renouf T, Co-presenters. Building a Contextually Relevant and Sustainable Simulation Program Using the Polarity Management Approach. November 2014, Invited Speakers for the Global Health Speakers' Forum, MUN
65. **Dubrowski A**, Smith A, Parsons M, Renouf T. Living labs: The case of point-of-care ultrasound education, Medical Education Scholarship Centre Forum, June 2014
66. **Dubrowski A**, Renouf T, Co-presenters. Building a Contextually Relevant and Sustainable Simulation Program Using the Polarity Management Approach. October 2014, American College of Emergency Physicians (ACEP), Chicago, Illinois
67. **Dubrowski A**, Renouf T, Carnahan H. Tuckamore Simulation Research Network: Building Simulation Research Capacity Across the Province. September 2014, Royal College: Simulation Summit, Toronto, Ontario
68. **Dubrowski A**, Metcalfe B, Parsons M, Renouf T, Rogers P, Sheppard G, Smith A, Black H, McCarthy H, Stone-McLean J. Living Labs: The Case of Point of Care Ultrasound Education. May 2014, Medical Education Scholarship Forum, Memorial University

69. *Fardy L, Shahzad W, Chafe R, **Dubrowski A**. The Effect of Oral Debriefing Combined with Video Assisted Self Reflection on Pediatric Resident Performance in High Fidelity Simulation. Simulation Summit, October 2016.
70. **Dubrowski A**. Research in simulation: a primer. Simulation. Simulation Summit, October 2016.
71. *Gallant I, *Whalen D, **Dubrowski A**. Does publication of simulation related scholarly work improve subsequent clinical learning? Simulation Summit, October 2016.
72. *Janes IW, **Dubrowski A**. Role of a novel Internet feedback instrument in a new age of simulation training: a randomized control study. Simulation Summit, October 2016.
73. **Dubrowski A**, Renouf T, Smith A, *Alani S, Parsons M, Hearn C, Brown R. A comparison of clinical skills performance on both stationary and moving platforms. International Symposium on Maritime Health. Bergen, September 2015.
74. *Rojas D, Kapralos B, **Dubrowski A**. The Role of Game Elements in Online Learning within Health Professions Education. Medicine Meets Virtual Reality, Los Angeles, January 2016.
75. *Rojas D, Kapralos B, **Dubrowski A**. Improving the Acquisition of Basic Technical Surgical Skills with VR-Based Simulation Coupled with Computer-Based Video Instruction. Medicine Meets Virtual Reality, Los Angeles, January 2016.
76. Uribe A, *Rojas D, Kapralos B, **Dubrowski A**. How Can Haptics Realism be “Gamed” to Learn Technical Medical Skills. Medicine Meets Virtual Reality, Los Angeles, January 2016.
77. Dubrowski A, Renouf T, Jong M. Simulation for rural and low resource training. Wonca Whorl Rural Health. Breaking down barriers: Bringing People Together, Dubrovnik, April 2015
78. Kristen E. Lindamood* 1, Elizabeth G. Doherty* 2, Caitlin O'Brien³, Christy L. Cummings², Denise Casey³, Parson Hicks⁴, Elaine Meyer⁵, Adam Dubrowski⁴, Peter Weinstock⁶. NICU Multidisciplinary CRM Seminars in Graduate Education: Delivery of Difficult Information. International Paediatric Simulation Society. Vancouver, Canada, 2015.
79. Elizabeth Doherty MD* 1, Christa Matrone MD², Caitlin O'Brien¹, Julia Perkins³, Parson Hicks EdM, MT⁴, Adam Dubrowski, PhD⁵, Peter Weinstock, MD, PhD⁶
80. Parent/ Caregiver Simulation Program for Safe Discharge to Home. International Paediatric Simulation Society. Vancouver, Canada, 2015.
81. Rabia Khan, Elaine Sigalet, Ian Wishart, Peter Weinstock, Adam Dubrowski⁶ Shannon Manzi, David Grant, Norman Lufesi. Towards Scaling-Up Pediatric Simulation in Malawi: a Demonstration of Simulation Pedagogy. International Paediatric Simulation Society. Vancouver, Canada, 2015.
82. Elaine L. Sigalet*, Faizal A. Haji, Rabia Khan, Adam Dubrowski, Peter Weinstock 5, Shannon Manzi, David Grant, Norman Lufesi, Ian Wishart. ETAT Train the Trainer Course in Malawi Fuels Stakeholder Ownership and Simulation Based Learning. International Paediatric Simulation Society. Vancouver, Canada, 2015.
83. Elizabeth Doherty, MD*, Karen Gruskin, MD, Lindsey Elliott, RN, Parson Hicks EdM, MT⁴ Adam Dubrowski, PhD, Peter Weinstock, MD, PhD. Sim “To Go”: Harmonizing a Complete Pediatric Hospital Network from Ground Up via Cascaded Sim. International Paediatric Simulation Society. Vancouver, Canada, 2015.

84. Cowan B, Kapralos B, Moussa F, **Dubrowski A**. The serious gaming surgical cognitive education and training framework and the SKY Script language. In Proceedings of the Workshop on VRtools for Education/Training (VRtoolsEd 2015), Eighth EAI International Conference on Simulation Tool and Techniques, Athens Greece, August 24-25 2015.
85. *Rojas D, Cowan B, Kapralos B, Collins K, **Dubrowski A**. The effect of sound on visual quality perception and task completion time in a cel-shaded serious gaming virtual environment. Proceedings of the 7th IEEE International Workshop in Quality of Multimedia Experience, Messinia, Greece, May 26-29 2015.
86. Mahmood T, *Haji F, Damignani R, Bagli D, **Dubrowski A**, Mylopoulos M. Quality of the Safe Surgery Checklist: A mixed-methods exploration at a Canadian tertiary healthcare facility. Oral presentation at the 2015 Canadian Conference on Medical Education, Vancouver, BC, April 26-28 2015.
87. **Dubrowski, A**, Kapralos, B, Kanev, K, and Jenkin, M. Interprofessional critical care training: Interactive virtual learning environments and simulations. In Proceedings of the Sixth International Conference on Information, Intelligence, Systems and Applications (IISA 2015), Corfu, Greece, July 6-8 2015.
88. *Haji F, Khan R, Sigalet E, Wishart I, Weinstock P, **Dubrowski A**, Manzi S, Grant D, Lufesi N. Towards scaling-up pediatric simulation in Malawi: a demonstration of simulation pedagogy. Podium presentation, 7th International Pediatric Simulation Symposia and Workshops, Vancouver, BC, May 4-6 2015.
89. *Haji F, *Cheung JJ, Woods N, Regehr G, DeRibaupierre S, **Dubrowski A**. Performance and cognitive load among novices training on simple vs. complex simulation scenarios during procedural skills training: a prospective randomized study. Podium presentation for the top research abstracts submitted to the 15th International Meeting on Simulation in Healthcare (4th place award), New Orleans, LA, January 10-14 2015.
90. Cowan B, *Rojas D, Kapralos B, Moussa F, **Dubrowski A**. (2015). Effects of sound on visual realism perception and task performance. *Visual Computer*, 31(9):1207-1216.
91. *Haji F, *Cheung JJ, Woods N, Regehr G, DeRibaupierre S, **Dubrowski A**. Performance and cognitive load among novices training on simple vs. complex simulation scenarios during procedural skills training: a prospective randomized study. Poster presentation at the 15th International Meeting on Simulation in Healthcare, New Orleans, LA, January 10-14 2015.
92. *Haji F, Khan R, Regehr G, Ng G, DeRibaupierre S, **Dubrowski A**. Identifying conditions affecting complexity of Lumbar Puncture to guide simulation instructional design for novice learners. Poster presentation at the 15th International Meeting on Simulation in Healthcare, New Orleans, LA, January 10-14 2015.
93. Sigalet E, *Haji F, Khan R, **Dubrowski A**, Weinstock P, Manzi S, Grant D, Lufesi N, Wishart I. ETAT Train the Trainer Course in Malawi Fuels Stakeholder Ownership and Simulation Based Learning. Podium presentation, 7th International Pediatric Simulation Symposia and Workshops, Vancouver, BC, May 4-6 2015.
94. *Haji F, Lufesi N, Grant D, Manzi S, Sigalet E, Weinstock P, Wishart I, **Dubrowski A**. A utilization focused evaluation of simulation within the Emergency Triage Assessment and Treatment (ETAT) program in Malawi. Poster presentation at The Wilson Centre's

- Local Clinic, International Care: Health Professions Education Globalized Symposium. June 2nd 2015.
95. *Rojas, D, Cowan, B, Kapralos, B, and **Dubrowski, A**. Gamification and health professions education. In Proceedings of the IEEE Games Entertainment and Media (GEM) 2014, Toronto, Ontario, Canada, October 22-24 2014.
 96. *Haji F, *Cheung JJH, Woods N, Regehr G, DeRibaupierre S, **Dubrowski A**. Performance and cognitive load among novices training on simple vs. complex simulation scenarios during procedural skills training: a prospective randomized study. *Simulation in Healthcare*. Orlando, 2014; 9(6):414-415.
 97. *Haji F, Khan R, Regehr G, Ng G, DeRibaupierre S, **Dubrowski A**. Identifying conditions affecting complexity of Lumbar Puncture to guide simulation instructional design for novice learners. *Simulation in Healthcare*. Orlando, 2014; 9(6):414.
 98. *Haji F, *Cheung JJ, Woods N, DeRibaupierre S, **Dubrowski A**. The effect of task complexity and context similarity on performance and cognitive load of novices during simulation-based procedural skills training. Oral presentation at the 2014 AAMC Research in Medical Education Conference, Chicago, IL, November 6-7 2014.
 99. *Eliasz KL, Knox ADC, *Haji FA, **Dubrowski A**, *Rojas D, Lyons J. Practice does not always make perfect: Negative thoughts degrade performance in novice medical trainees learning suturing techniques. Oral Presentation at the Association for Medical Education in Europe 2014 Annual Conference, Milan, Italy, September 2 2014.
 100. *Eliasz KL, Knox ADC, *Haji FA, **Dubrowski A**, *Rojas D, Lyons J. Practice does not always make perfect: Negative thoughts degrade performance in novice medical trainees learning suturing techniques. The Richard K. Reznick Wilson Centre Research Day - Toronto, ON, October 31 2014.
 101. *Haji FA, Lufesi N, Grant D, Manzi S, Sigalet E, Weinstock P, Wishart I, **Dubrowski A**. Drivers And Barriers For Pediatric Healthcare Simulation Capacity Development In Malawi. Oral presentation (3rd place award in the Education and Technology Innovation abstract section) at the 6th International Pediatric Simulation Symposia and Workshops, Vienna, Austria, April 23-25 2014.
 102. Beig, M, Mayer, A, Chan, C, Kapralos, B, and **Dubrowski, A**. A serious game for medical-based cultural competence education and training. The 14th IEEE International Conference on Advanced Learning Technologies (ICALT2014), Athens, Greece, July 7-10, 2014.
 103. Welsher A, Kahn Z, *Rojas D, Bernard C, Musson D, Brydges R, **Dubrowski A**, Kapralos B, & Grierson L. Observational practice and educational networking: Connecting clinical skill Learners across a distributed medical education network. 2014 Ontario Simulation Exposition, Toronto, Canada, December 4-5 2014.
 104. Shewaga R, Khan Z, Kapralos B, and **Dubrowski A**. A serious game for medical-based cultural competence education and training. 2014 Ontario Simulation Exposition, Toronto, Canada, December 4-5 2014.
 105. *Rojas D, Kapralos B, and **Dubrowski A**. Thinking outside the box: Using online learning for simulation preparation in health professions education. International Association for Medical Education Annual Conference. Milan, Italy, August 30 – September 3, 2014.
 106. *Rojas, D, Kapralos, B, and **Dubrowski, A**. Gamification, the next approach for internet-based learning in health professions education. The 14th IEEE International

- Conference on Advanced Learning Technologies (ICALT2014), Athens, Greece, July 7-10, 2014.
107. *Rojas D, Cowan B, Kapralos B, Collins K, **Dubrowski A**. The effect of contextual sound cues on visual fidelity perception. *Medicine Meets Virtual Reality 2014*, Manhattan Beach, CA, USA, February 20-22 2014. Appears in *Studies in Health Technology and Informatics*, 196:364-352, 2014.
 108. *Rojas D, *Haji f, Shewaga R, Kapralos B, **Dubrowski A**. The impact of secondary-task type on the sensitivity of reaction time-based measurement of cognitive load for novices learning surgical skills using simulation. *Medicine Meets Virtual Reality 2014*, Manhattan Beach, CA, USA, February 20-22, 2014. Appears in *Studies in Health Technology and Informatics*, 196:353-359, 2014.
 109. Welsher, A., Kahn, Z., *Rojas, D., Bernard, C., Musson, D., Brydges, R., **Dubrowski, A.**, Kapralos, B., Grierson, L. Observational practice and educational networking: Connecting clinical skill Learners across a distributed medical education network. 2014 Ontario Simulation Exposition, Toronto, Canada, December 4-5 2014.
 110. Shewaga, R., Khan, Z., Kapralos, B., **Dubrowski. A**. A serious game for medical-based cultural competence education and training. 2014 Ontario Simulation Exposition, Toronto, Canada, December 4-5 2014.
 111. *Haji, F., Lufesi, N., Weinstock, P., Grant, D., Pyburn, R., Sigalet, E., Wishart, I., **Dubrowski, A.**, Evaluation of current capacity in and opportunities for development of simulation-based education to improve pediatric health services in Malawi. International Meeting for the Society for Simulation, San Francisco, California, January 2014.
 112. *Haji, F., Martin, R., Ng, R; Drake J., **Dubrowski, A**. Development and evaluation of a contextually relevant measure of cognitive load for simulation-based psychomotor skills training. International Meeting for the Society for Simulation, San Francisco, California, January 2014.
 113. *Haji FA, Khan R, deRibaupierre S, **Dubrowski A**. Identifying Simplifying And Complicating Conditions For LP Training Of Novices: A Delphi Study. Oral presentation at the 6th International Pediatric Simulation Symposia and Workshops, Vienna, Austria, April 23-25 2014.
 114. *Cheung J, Koh J, MacKinnon K, Brett C, Bägli D, Kapralos B, and **Dubrowski A**. Preparing for Simulation-Based Education and Training Through Web-Based Learning: The Role of Observational Practice and Computer-Supported Collaborative Learning. The Hodges Education Scholarship International Symposium. Toronto, Ontario, Canada. March 20 2014.
 115. *Cheung JJ, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & **Dubrowski A**. Preparation improves the efficiency of simulation-based mastery learning. Royal College of Physicians and Surgeons: Simulation Summit 2014. Toronto, Ontario. September 11-12, 2014.
 116. **Dubrowski A**, *Haji FA, Lufesi N, Weinstock P, Grant D, Molyneux E, Kissoon NT, Sigalet E, Manzi S, Wishart I. Building Pediatric Simulation Capacity In Developing Countries: The IPSS- WFPICCS-Malawi Project. Oral presentation (1st place award in Ideas and Works in the Progress abstract section) at the 6th International Pediatric Simulation Symposia and Workshops, Vienna, Austria, April 23-25 2014.

117. *Rojas D, *Haji F, Shewaga R, Kapralos B, **Dubrowski A.** (2014). The impact of secondary-task type on the sensitivity of reaction-time based measurement of cognitive load for novices learning surgical skills using simulation. Medicine Meets Virtual Reality, San Diego, California, February 2014.
118. *Rojas D, Cowan B, Kapralos B, Collins K, **Dubrowski A.** (2014). The effect of contextual sound cues on visual fidelity perception. Medicine Meets Virtual Reality, San Diego, California, February 2014.
119. *Rojas D, Kapralos B, Bridges R, Bagli D, **Dubrowski A.** Game elements as types of feedback to foster motivation within Internet-supported learning. Wilson Centre Research Day, Faculty of Medicine, University of Toronto, Canada, October 31 2014.
120. *Rojas D, Kapralos B, Bridges R, Bagli D, **Dubrowski A.** Game elements as types of feedback to foster motivation within Internet-supported learning. Ontario Simulation Exposition, Toronto, Canada, December 4-5 2014.
121. Chan MW, Truong S, *Cheung JJ, Whitehead C, **Dubrowski A.** (2014). Do not forget the oldest old: design principles for the 80+. Medicine Meets Virtual Reality, San Diego, California, February 2014.
122. *Haji F, Lufesi N, Grant D, Manzi S, Sigalet E, Weinstock P, Wishart I, **Dubrowski A.** A utilization focused evaluation of simulation within the Emergency Triage Assessment and Treatment (ETAT) program in Malawi. Poster presentation at the 2014 International Meeting for Simulation in Healthcare (IMSH), January 25-29 2014.
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124. *Haji F, *Cheung JJ, Regehr G, Woods N, de Ribaupierre S, **Dubrowski A.** The effect of task complexity and context similarity on performance and cognitive load of novices during simulation- based procedural skills training. Oral presentation at the Richard K. Reznick Wilson Centre Research Day, October 31 2014.
125. *Haji FA, Cheung JJ, Woods N, Regehr G, deRibaupierre S, & **Dubrowski A.** The effect of task complexity and context similarity on performance and cognitive load of novices during simulation-based procedural skills training. Association of American Medical Colleges Medical Education Meeting. Chicago, Illinois, USA. November 6-7 2014.
126. *Haji F, **Dubrowski A.** Evaluation of a contextually relevant measure of cognitive load for simulation-based skills training. Poster presentation at the Institute of Medical Sciences (IMS) Scientific Day, May 22 2014.
127. *Haji FA, Lufesi N, Grant D, Manzi S, Sigalet E, Weinstock P, Wishart I, **Dubrowski A.** Drivers And Barriers For Pediatric Healthcare Simulation Capacity Development In Malawi. Poster presentation at The Hodges Educational Scholarship International Symposium, Toronto, Canada, March 20 2014.
128. *Eliasz K, **Dubrowski A,** Knox A, *Rojas D, *Haji F, Lyons J. When thoughts become actions: The detrimental effects of negative social-comparative feedback on performance, learning and self- efficacy beliefs in medical trainees learning suturing techniques. Oral presentation at The Wilson Centre Research Day, Toronto, Ontario, October 25 2013. Recipient of the Richard K. Reznick Research Award for Best Paper.

129. *Cheung JJ, Truong S, Chan MW, Hum S, Kapralos B, **Dubrowski A**, & Whitehead C. Assessing the interest, acceptability, and usability of social networking to support a primary care patient-centred model for vulnerable older adults. Poster Presentation. Ministry of Long-Term Health Care Alternate Funding Plan – Innovation Fund Showcase 2013: From Innovation to Practice. Toronto, Ontario, Canada. November 28 2013.
130. *Haji F, Martin R, Ng G, Drake J, **Dubrowski A**. Development and evaluation of a contextually relevant measure of cognitive load for simulation-based psychomotor skills training. *Simulation in Healthcare*. 2013;8(6):540-1
131. *Haji F, Lufesi N, Grant D, Manzi S, Sigalet E, Weinstock P, Wishart I, **Dubrowski A**. A utilization focused evaluation of simulation within the Emergency Triage Assessment and Treatment (ETAT) program in Malawi. *Simulation in Healthcare*. 2013;8(6):441
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134. **Dubrowski A**, Kapralos B, Jenkin M, and Kanev K. Interprofessional critical care training: Interactive virtual learning environments and simulations. *Humans and Computers 2013*, Hamamatsu, Japan, December 17, 2013.
135. Eliasz KL*, **Dubrowski A**, *Rojas D, Knox ADC, *Haji FA, & Lyons J. When thoughts become actions: The detrimental effects of negative social-comparative feedback on performance, learning and self-efficacy beliefs in highly motivated learners. *SOMBS, Toronto*, 2013.
136. *Haji F, Khan R, Regehr G, **Dubrowski A**. Quantifying Cognitive Load During Simulation Training for Procedural Skills: Evaluating the Sensitivity of Dual-task Performance and Subjective Rating Measures. Oral presentation at the 2013 AAMC Conference on Research in Medical Education (RIME), November 1-6 2013.
137. *Eliasz KL, Knox ADC, **Dubrowski A**, *Rojas D, Haji FA, Lyons J. “Whether you think you can, or you think you can't – you're right.” The detrimental effects of negative social-comparative feedback in medical trainees learning suturing techniques. Oral presentation at the 67th Annual Meeting of the Canadian Society of Plastic Surgeons, Calgary, AB, May 28th-June 1st, 2013.
138. *Eliasz KL, **Dubrowski A**, Knox ADC, Haji FA, *Rojas D, Lyons J. When thoughts become actions: The detrimental effects of negative social-comparative feedback in medical trainees learning suturing techniques. Oral presentation at the Association for Medical Education in Europe 2013 Annual Conference, Prague, Czech Republic, August 24-28 2013.
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- presentation at the North American Society for the Psychology of Sport and Physical Activity 2013 Annual Meeting, New Orleans, LA, June 13- 15th 2013.
140. **Dubrowski A**, *Haji F, DaSilva C, Carnahan H. Turning projects into programs: adopting a framework for simulation research. Accepted as a workshop presentation at the 5th International Pediatric Simulation Symposia and Workshops, New York, NY, April 23-25 2013.
 141. Kapralos B, **Dubrowski A**, *Haji F. An introduction to serious games, and (virtual) simulation for health professions education. Tutorial presentation at NextMed/Medicine Meets Virtual Reality (MMVR) 20, San Diego, February 20-23 2013.
 142. *Haji F, DaSilva C, **Dubrowski A**. From bricks to buildings: a framework for developing sustained, thematic programs of research for simulation education and training in the health professions. Workshop presentation at the 13th International Meeting on Simulation in Healthcare (IMSH), Orlando, Florida, January 26-30 2013.
 143. Chan M, Truong S, *Cheung JJ, Hum S, Kapralos B, Whitehead C, and **Dubrowski A**. Technical and design requirements for integrating social networking into a primary patient-centered care model for the 80+. 2013 North American Primary Care Research Group (NAPCRG) Annual Meeting, Ottawa, Canada, November 9-13 2013.
 144. *Rojas D, Kapralos B, **Dubrowski A**. The missing piece in the gamification puzzle. In Proceedings of the First International Conference on Gameful Design, Research and Application (Gamefication 2013), Stratford, Canada, October 2-4 2013, pp. 135 -138.
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250. Grierson, L. E. M*, Barry, M., Carnahan, C., Kapralos, B., **Dubrowski, A**. Effectiveness of an internet-mediated, educational networking instrument in simulation based training of clinical tasks. To be presented at The Royal College 2010 Simulation Summit, Toronto, ON, September 2010.
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252. Brydges, R*, **Dubrowski, A.**, Carnahan, H., Rose, D. Independent learning using simulation: comparison of Self-Guided and proficiency-based training approaches for learning. Canadian Conference on Medical Education, St. John's, NL, May 2010.
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255. **Dubrowski, A.**, Macgreggor, J., Carnahan, H., Kapralos, B. Internet Mediated, Peer-to-Peer Feedback for Learning of Patient Transfer Skills: Prototype Development and Testing. Word Conference on Educational Sciences (WCES). Istanbul, Turkey, February 2010.
256. Albuquerque, C., Brown, T., Kapralos, K., Hogan, M., **Dubrowski, A**. The use of virtual simulations in a Laptop-Based University. Word Conference on Educational Sciences (WCES). Istanbul, Turkey, February 2010.
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- Conference on What really Works: Strategies to Improve Teaching and Learning. Oshawa, ON, November 21-22 2009.
261. Hogan M, Kapralos B, Muirhead B, and **Dubrowski A**. Community health nursing comes to life. Third Annual Conference of the Canadian Game Studies Association. Ottawa, ON, May 23-24 2009.
 262. Hogan M, Kapralos B, Muirhead B, and **Dubrowski A**. Bringing community health nursing education to life. Health Professionals Education (HPE)–Global Best Practices in Simulation 2009. Toronto, ON, May 21-23 2009.
 263. **Dubrowski, A.**, Miliard Derbew, Byrne, N., Pittini, R., Satterthwaite, L., and Tajirian, T. Teaching the Trainers in Simulation Based Education for Sub-Saharan Africa: Barriers and Solutions. Surgical Society of Ethiopia, Addis Ababa, Ethiopia, November 2009.
 264. Brydges, R., Carnahan, H., Rose, D., **Dubrowski, A.** Comparison of proficiency-based and self-guided training approaches for learning clinical technical skills using simulation. Research in Medical Education, Boston, MS, USA, November 2009.
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 271. **Dubrowski, A.** Internet Mediated, Peer-to-Peer Feedback for Learning of Clinical Skills: Prototype Development and Testing. International Multi-Conference on Engineering and Technological Innovation (IMETI). Orlando, FL, July 2009.
 272. Cristancho, S. M., Rueda, L. C., Grierson, L., Monclou A. A., **Dubrowski, A.** Colombian-Canadian approach to developing inexpensive models for objective assessments of technical clinical skills. MODSIM, Montreal, QC, June 2009.
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275. Ken Finney, K., Tashiro, J.S., **Dubrowski, A.**, Carnahan, H., Kapralos, B., Hogan, M. Serious Games: Video Game-Based Learning for Health Education and Training, Health Professions Education Conference, Toronto, ON, May 2009.
276. Hogan, M., Kapralos, B., Muirhead, B., **Dubrowski, A.** Bringing Community Health Nursing Education to Life. Health Professions Education Conference, Toronto, ON, May 2009.
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281. Cristancho, S. M., Rueda, C. L., Monclou, A. A., Grierson, L., Rojas, D., Camilo Moncayo, C. **Dubrowski, A.** The SmartSIM: Developing inexpensive simulators for monitoring surgical knot performance (A Colombian-Canadian Collaboration). Wilson Centre Research Day, Toronto, ON October 2009.
282. Safir, O., Hui, Y., **Dubrowski, A.**, Backstein, D., Carnahan, H. Self directed learning is as good as instructor guided practice when learning a complex surgical skill. Wilson Centre Research Day, Toronto, ON, October 2009.
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285. Cristancho, S. M., Monclou, A. A., Serpa, E. M., **Dubrowski, A.** Simulation-based medical education by design for the Fundacion Cardiovascular de Colombia (FCV). Wilson Centre Research Day, Toronto, ON, October 2009.
286. Carnahan, H., Walsh, C., Hagemann, E., **Dubrowski, A.** The role of simulation in the education of rehabilitation professionals. American Congress of Rehabilitation Medicine, Toronto, ON, October, 2008.
287. Safir, O., **Dubrowski, A.**, Mirsky, L., Lin, C., Backstein, D., Carnahan, H. A Survey of Canadian Orthopaedic Surgeons: What Skills Should Trainees Possess Prior to Performing in the Operating Room? Royal College's International Conference on Residency Education. Ottawa, ON, September, 2008.

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290. Brydges, R., Carnahan, H., **Dubrowski, A.** Goal setting influences the acquisition of clinical skills during self-guided learning in a simulated setting, Association for Medical Education in Europe. Prague, Czechoslovakia, August 2008.
291. Stransky, D., **Dubrowski, A.**, Carnahan, H., Wilcox, L. Mental rotation: Cross-task training and generalization. Vision Sciences Society. May 2008, Naples, FL.
292. Brydges, R., Carnahan, H., **Dubrowski, A.** Can medical students self-regulate their learning? Use of an interactive instructional video to teach wound closure skills. Association for Surgical Education, Toronto ON, April, 2008.
293. Safir, O., Hagemann, E., Sekhon, G., Weathermon, A., **Dubrowski, A.**, Backstein, D., Carnahan, H. The influence of fundamentals of laparoscopic surgery (FLS) training on simulated arthroscopy performance. Association for Surgical Education, Toronto, ON, April 2008.
294. Hagemann, E., **Dubrowski, A.**, Safir, O., Carnahan, H. Criterion-based practice leads to better retention of a surgical knot-tying skill. Association for Surgical Education, Toronto, ON, April 2008.
295. Safir, O., Hagemann, E., **Dubrowski, A.**, Backstein, D., Carnahan, H.. The influence of visuomotor simulation training on arthroscopy performance. NASPSPA, Niagara Falls, ON, June, 2008.
296. Brydges, R., Carnahan, H., **Dubrowski, A.** Learning a complex surgical skill: the effect of self-guided instruction and Goal Setting. NASPSPA, June, 2008, Niagara Falls, ON.
297. Safir, O., **Dubrowski, A.**, Mirsky, L., Lin, C., Backstein, D., Carnahan, H. What Skills Should Simulation Training in Arthroscopy Teach Residents? Computer Assisted Radiology and Surgery, Barcelona, Spain, June 2008.
298. **Dubrowski, A.**, Nagle, K., Hardie, Y., Otchare, Nelson, S. Internet Mediated Assessment for Learning: Development of Objective Assessment of Skills in Health Care Education. ED-MEDIA 2008:World Conference on Educational Multimedia, Hypermedia & Telecommunications. Vienna, Austria, June 2008.
299. Carnahan, H., Weber, J., **Dubrowski, A.** Evaluation of medical students' technical performance is necessary to evaluate learning. International Conference on Learning, Chicago, IL, June, 2008.
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303. **Dubrowski, A.**, Brydges, R., El-Hout, Y., Braga, L.H., Lorenzo, A., Farhat, W.A. Initial Validation of a Novel Inanimate Bench-Top Teaching Model for Laparoscopic Reconstructive Procedures. American Urological Association. Orlando, FL, May 2008.
304. Kurahashi, A., Leming, K. Carnahan, C., **Dubrowski, A.** Effects of Expertise, Practice and Contextual Interference on Adaptations to Visuo-Motor Misalignment. Medicine Meets Virtual Reality 16th Annual Conference, South Beach, CA, January 2008.
305. Brümmer, V., Carnahan, H., Okrainec, A., **Dubrowski, A.** Trocar Insertion: The Neglected Task of VR Simulation. Medicine Meets Virtual Reality 16th Annual Conference, South Beach, CA, January 2008.
306. Melnyk, M., Jowett, N., Backstein, D., MacRae, H., **Dubrowski, A.** The impact of bench model practice on learning in medical students: dual cognitive-motor tasking in surgery. Research in Medical Education (RIME). November 2007.
307. Brydges, R., Carnahan, H., **Dubrowski, A.** Can I really teach myself? Probing self-guided learning of clinical technical skills. Wilson Centre Research Rounds, University of Toronto, Toronto, ON, February 2008.
308. Safir, O., **Dubrowski, A.**, Mirsky, L., Backstein, D., Carnahan, H. What should drive the development of arthroscopy simulators: Technology, experts or trainees? Wilson Centre Research Rounds, University of Toronto, Toronto, ON, February 2008.
309. Keilty, K., Musclow, S., **Dubrowski, A.** “Meet Charlie” Introducing Simulation into Nurse Practitioner Education. Teaching and Learning Symposium. Toronto, ON, October 2008.
310. Xia Meng, S., Velauthan, S., Barry, M., **Dubrowski, A.** Internet mediated, peer-to-peer feedback: Untapped potential for learning of clinical skills. Teaching and Learning Symposium. Toronto, ON, October 2008.
311. Kurahashi, A., Harvey, A., MacRae, H., **Dubrowski, A.** Practice of Primary Motor Tasks Enables Learning of Secondary Cognitive Information. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS). Windsor, ON, November 2007.
312. **Dubrowski, A.**, Kurahashi, A., Brydges, R., Bruemmer, B., Satterhwaite, L., Classen, R. Clinical experience improves residents’ ability to acquire novel cognitive information in a simulated environment. Association of Surgical Education, Washington, DC, April 2007.
313. Hagemann, E., **Dubrowski, A.**, Carnahan, H. Proficiency at the end of practice predicts retention of a technical clinical skill. Canadian Society for Sport Psychology. Windsor, ON, October 2007.
314. **Dubrowski, A.**, Leblank, V., Gofton, W, Xeroulis, G., Carnahan, H. Simulation based training of technical surgical skills: A review of a five-year collaborative research program supported by the RCPSC Medical Education Fund. Royal College of Physicians and Surgeons of Canada, Winnipeg, AB, October 2007.
315. Carnahan, H., Hagemann, E., **Dubrowski, A.** Proficiency at the end of practice predicts retention of a technical clinical skill. Royal College of Physicians and Surgeons of Canada, Winnipeg, AB, October 2007.

316. Woodrow, S.I., **Dubrowski, A.**, Khokhotva, M., Backstein, D., Rampersaud, R., Massicotte, E. Training and Evaluating Spinal Surgeons: The Development of Novel Measures of Performance. Congress of Neurological Surgery Annual Meetings, San Diego, CA, September 2007.
317. Woodrow, S.I., Massicotte, E., Torino, A., Backstein, D., Rampersaud, Y.R., **Dubrowski, A.** Using Novel Performance Measures to Evaluate the Effectiveness of Surgical Training in Spinal Surgery? AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Arizona, 2007, Winner of Best Poster Prize.
318. Brydges, R., Kurahashi, A., Brümmer, V., Satterthwaite, L., Classen, R., **Dubrowski, A.** Proficiency-based training: parameters educators should consider. American College of Surgeons 93rd Annual Clinical Congress, New Orleans, LA, October 2007.
319. Hagemann, E., **Dubrowski, A.**, Carnahan, H. How does learning influence forgetting? SCAPPS, Windsor, ON, November 2007.
320. LeBlanc, V.R., Woodrow, S., Sidhu, R., **Dubrowski, A.** Effects of Examination Stress on Surgical Skills of Residents. Poster to be presented at the Annual Meeting of the Association for Medical Education in Europe. Trondheim, Norway, August 2007.
321. Carnahan, H., **Dubrowski, A.** Proficiency based learning as a predictor of the retention of a technical surgical skill. Association for Medical Education in Europe. Bodenheim, Norway, August 2007.
322. Brümmer, V., Okrainec, A. Carnahan, H., **Dubrowski, A.** Altered gravity affects the execution of surgical skills. 12th annual Congress of European College of Sport Science (EXCESS), Jyvaskyla, Finland, July, 2007.
323. Carnahan, H., Harvey, A., **Dubrowski, A.** Strategies related to effective design in surgical simulation. 4th International conference on Cybernetics and Information Technologies, Systems and Applications: CITRA, Orlando, FL, July 2007.
324. **Dubrowski, A.**, Tabloie, F., Backstein, D., Gofton, W. Individual learning styles do not influence acquisition of computer assisted orthopedic surgery. Computer Assisted Radiation and Surgery. Berlin, Germany, June 2007.
325. Gofton, W., **Dubrowski, A.**, Tabloie, F., Backstein, D. The Effect of Computer Navigation on the Learning of Surgical Skills. Canadian Association for Orthopaedic Surgery, Halifax, NS, June 2007.
326. Kurahashi, A., Harvey, A., MacRae, H., **Dubrowski, A.** Effects of practice on learning a surgical procedure: Development from cognitive to automatic performance. Southern Ontario Psychomotor Behaviour. St. Catharine's, ON, May 2007.
327. Brydges, R., Kurahashi, A., Bruemmer, V., Classen, R., **Dubrowski, A.** Separate assessment of "psycho" and "motor" components of surgical technical skills performance for the development of proficiency-based training approaches. Southern Ontario Psychomotor Behaviour. St. Catharine's, ON, May 2007.
328. Gofton, W., **Dubrowski, A.**, Tabloie, F., Backstein, D. The Effect of Computer Navigation on the Learning of Surgical Skills. Canadian Association for Medical Education, Victoria, BC, May 2007.
329. **Dubrowski, A.**, Derbew, M., Dorman, K., Satterthwaite, L., Reznick, R., Howard, A. Surgical Skills Lab Training in Ethiopia – Results of U of T OSATS exams. Bethune Round Table, Toronto, ON, May 2007.

330. Kurahashi, A., Lemming, K., Carnahan, H., **Dubrowski, A.** The effects of practice organization on visuo-motor misalignment adaptation, SAGES, Las Vegas, NV, April 2007.
331. Torgerson, C., Brydges, R., Chen, J., **Dubrowski, A.** Low fidelity simulation of temporal bone drilling leads to improved but sub-optimal outcomes. Medicine Meets Virtual Reality. Long Beach, CA, February 2007.
332. Ni, L., Wang, D., **Dubrowski, A.**, Carnahan, H. User-friendly Interface for Surgeons to Create Haptic Effects in Medical Simulation. Medicine Meets Virtual Reality. Long Beach, CA, February 2007.
333. Al-Qadhi, S., Carnahan, H., **Dubrowski, A.**, Mehta, S. The influence of part practice order on the learning of procedural tasks. Wilson Centre Research Day, Toronto, ON, October 2007.
334. Brydges, R., Carnahan, H., **Dubrowski, A.** The effects of goal setting and self-regulated video Instruction on learning a wound closure task. Wilson Centre Research Day, Toronto, ON, October 2007.
335. Hagemann, E., **Dubrowski, A.**, Carnahan, H. Criterion reached at the end of practice best predicts technical skill learning. Wilson Centre Research Day, Toronto, ON, October 2007.
336. Safir, O., **Dubrowski, A.**, Mirsky, L., Lin, C., Backstein, D., Carnahan, H. A survey of educational needs for arthroscopy simulation. Wilson Centre Research Day, Toronto, ON, October 2007.
337. Hagemann, E., **Dubrowski, A.**, Carnahan, H. It's not how long you practice: It's how well. Toronto Rehabilitation Institute Research Day, Toronto, ON, November 2007.
338. Kurahashi, A., **Dubrowski, A.**, Lemming, K., Carnahan, C. Visuo-motor misalignments: The influences of practice scheduling on adaptation acquisition. 33rd Gallie Day, Toronto, ON, May 2007.
339. Kurahashi, A., Harvey, A., MacRae, H., **Dubrowski, A.** Simulated-based technical practice facilitates concurrent technical and cognitive task performance. Wilson Centre Research Day, Toronto, ON, October 2007.
340. Szumacher, E., **Dubrowski, A.** The effectiveness of an educational intervention on the congruence of prostate and rectal contouring as compared to a gold standard in planning for three-dimensional radiotherapy for prostate cancer (3D-CRT). Wilson Centre Research Day, Toronto, ON, October 2007.
341. Brydges, R., Carnahan, H., **Dubrowski, A.** The effects of goal setting and self-regulated video instruction on learning a wound closure task. Wilson Centre Research Day, Toronto, ON, October 2007.
342. Safir, O., **Dubrowski, A.**, Mirsky, L., Backstein, D., Carnahan, H. A survey of educational needs for arthroscopy simulation. Wilson Centre Research Day, Toronto, ON, October 2007.
343. Samim, A., Carnahan, H., **Dubrowski, A.**, Mehta, S. The influence of part practice order on the learning of procedural tasks. Wilson Centre Research Day, Toronto, ON, October 2007.
344. Hagemann, E., **Dubrowski, A.**, Carnahan, H. Criterion reached at the end of practice best predicts technical skill learning. Wilson Centre Research Day, Toronto, ON, October 2007.

345. **Dubrowski, A.** Enabling Health Professions Education: The role of Simulation. Wilson Centre Research Rounds, University of Toronto, Toronto, ON, May 2007.
346. Jowett, N.T., Xeroulis, G., MacRae, H., LeBlanc, V., **Dubrowski, A.** Self-assessment of surgical skill learning with computer-based video training and the impact on self-directed training. 5th Annual Education Achievement Day, Toronto, ON, April 2007.
347. Kurahashi, A., Brydges, R., Bruemmer, V., Satterthwaite, L., Classen, R., **Dubrowski, A.** Clinical experience improves residents' ability to acquire novel information in a simulated environment. Wilson Centre, Toronto, ON, February 2007.
348. Jowett, N.T., LeBlanc, V., Xeroulis, G., MacRae, H., **Dubrowski, A.** Self-assessed proficiency on technical surgical skills is an accurate predictor of technical performance. Research in Medical Education. Seattle, WA, November 2006.
349. LeBlanc, V., **Dubrowski, A.**, Woodrow, S., Sidhu, R. Effects of examination stress on surgical skills of residents. Research in Medical Education. Seattle, WA, November 2006.
350. Behich, J., Carnahan, H., Brydges, R., Gray, G., **Dubrowski, A.** Full body tilt affects execution of complex manual skills. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Halifax, NS, November 2006.
351. Brydges, R., **Dubrowski, A.** The influence of congruency likelihood on the integration of visual and proprioceptive modalities. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Halifax, NS, November 2006.
352. Kurahashi, A., Leming, K., Carnahan, H., **Dubrowski, A.** The effects of practice on adaptation to visual field rotations. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS). Halifax, NS, November 2006.
353. Leming, J.K., Carnahan, H., Brydges, R., **Dubrowski, A.** The effects of visual field rotation on the performance of a laparoscopic task by novice and expert laparoscopists. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Halifax, NS, November 2006.
354. Woodrow, S.I., **Dubrowski, A.**, Backstein, D., Rampersaud, R., Massicotte, E. Validation of objective performance measures during a pedicle cannulation task? Canadian Congress of Neurological Sciences Annual Meeting, Montreal, Canada, 2006. Winner of McKenzie Prize for Clinical Neurosciences Research.
355. Gonzalez, D., **Dubrowski, A.**, Carnahan, H. Is vision the only afferent system that provides relevant pre-contact cues? Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS). Halifax, NS, November 2006.
356. **Dubrowski, A.**, Jowett, N.T., LeBlanc, V., Xeroulis, G., MacRae, H. Self-Assessed Proficiency on Technical Surgical Skill is an Accurate Predictor of Technical Performance. American Association of Medical Colleges Research In Medical Education Annual Meeting, Seattle, WA, USA, November 2006. (Podium)
357. Brydges R, Sidhu R, Park J, **Dubrowski A.** Construct validity of computer assisted assessment: Quantification of movement processes during a vascular anastomosis on a live porcine model. Canadian Society for Vascular Surgery Conference, Calgary, AB, September 2006.
358. **Dubrowski, A.**, Xeroulis, G., Porte, M.C., Leblanc, V., Reznick, R.K. Learning technical surgical skills by medical students: the role of verbal feedback from an expert

- and self-accessed feedback about motion efficiency. Association for Medical Education in Europe, Genoa, Italy, September 2006.
359. Brydges, R., Carnahan, H., Backstein, D., **Dubrowski, A.** The impact of practice schedules on the learning of a complex surgical skill. . Association for Medical Education in Europe, Genoa, Italy, September 2006.
 360. Jowett, N.T., Xeroulis, G., MacRae, H., LeBlanc, V., **Dubrowski, A.** Self-assessment of surgical skill learning with computer-based video training and the impact on self-directed training. Association for Medical Education in Europe, Genoa, Italy, September 2006.
 361. Moulton, C. E., **Dubrowski, A.**, MacRae, H., Graham, B., Grober, E., Reznick, R.K. Surgical Skills Training: What Kind of Practice Makes Perfect? Canadian Surgery Forum. Calgary, AB, Canada, September 2006.
 362. Abughaduma, R., Backstein, D., **Dubrowski, A.** Effects of practice schedule on the acquisition of a complex bone-plating surgical procedure. Canadian Orthopedic Association. June 2006, Toronto.
 363. Jowett, N. T., LeBlanc, V., Xeroulis, G., MacRae, H., **Dubrowski, A.** The effectiveness of self-guidance on the technical surgical skills learning. The evaluation of motion analysis data as a form of feedback to the novice trainee. 12th International Ottawa Conference on Clinical Competence, New York City, NY, May 2006.
 364. Porte, M., Xeroulis, G., Reznick, R., **Dubrowski, A.** The evaluation of motion analysis data as a form of feedback to the novice trainee. 12th International Ottawa Conference on Clinical Competence, New York City, NY, May 2006.
 365. Brydges, R., Sidhu, R., Park, J., **Dubrowski, A.** Quantification of movement processes during a vascular anastomosis. Canadian Association for Medical Education, London, ON, May 2006.
 366. Moulton, C.E., **Dubrowski, A.**, MacRae, H., Graham, B., Grober, G., Reznick, R. Teaching Surgical Skills: What Kind Of Practice Makes Perfect? American Surgical Association, Boston, MA, April 2006.
 367. Woodrow, S.I., **Dubrowski, A.**, Khokhotva, M., Backstein, D., Rampersaud, Y. R., Massicotte, E. Validating Objective Measures of Performance During a Pedicle Cannulation Task. Canadian Congress of Neurological Sciences, Montreal, QC, June 2006. (*CCNS KG McKenzie Memorial Prize for Clinical Neuroscience Research)
 368. Jowett, N. T., LeBlanc, V., Xeroulis, G.I., MacRae, H., **Dubrowski, A.** Self-assessment of surgical skill learning with computer-based video training and the impact on self-directed training. Association for Surgical Education, Tucson, AZ, March, 2006.
 369. **Dubrowski, A.**, Larmer, J., Leming, J.K., Brydges, R., Park, J. Quantification of process measures in laparoscopic suturing. Medicine Meets Virtual Reality, Long Beach, CA, January, 2006.
 370. Shang, D., Carnahan, H., **Dubrowski, A.** Modeling of a laparoscopic needle driver: Implication for the design of virtual reality simulators. Medicine Meets Virtual Reality, Long Beach, CA, January, 2006.
 371. Gofton, W.*, **Dubrowski, A.**, Tabloie, F., Backstein, D. The Effect of Computer Navigation on the Learning of Surgical Skills. The Wilson Centre Research Day, Toronto, ON, October, 2006. Richard Reznick Award in Surgical Education winner

372. Melnyk, M., Jowett, N.T., Backstein, D., MacRae, H., **Dubrowski, A.** Bench-Model Practice Improves the Trainees' Ability to Multitasking. The Wilson Centre Research Day, Toronto, ON, October, 2006.
373. Moulton, C.*, **Dubrowski, A.**, MacRae, H., Graham, B., Grober, E., Reznick, R. Teaching Surgical Skills: Massed Versus Distributed Practice. University of Toronto Gallie Day, Toronto, ON, May 2006. *recipient of Wyeth Award in Medical Education and Clinical Epidemiology
374. Gonzalez, D., **Dubrowski, A.**, Carnahan, H. Can you hear and object's mass? Bodies of Knowledge Graduate Student Research Conference, Toronto, ON, May 2006.
375. Khokhotva, M., Backstein, D., **Dubrowski, A.** Performance error is not necessary for learning of orthopaedic bone drilling. 20th Annual Medical Student Research Day, Toronto, ON, January 2006.
376. Jowett, N.T., LeBlanc, V., Xeroulis, G., MacRae, H., **Dubrowski, A.** Self-assessment of surgical skill learning with computer-based video training and the impact on self-directed training. 20th Annual Medical Student Research Day, Toronto, ON, January 2006.
377. Larmer, J., Leming, J.K., Brydges, R., Park, J., **Dubrowski, A.** The importance of movement process measures in the early stages of laparoscopic skill acquisition. Wilson Centre Research Day, Toronto, ON, October 2006.
378. **Dubrowski, A.** Self-assessment of technical surgical abilities by medical students and its impact on self-directed training. Canadian Undergraduate Surgical Education Committee Meeting, Banff, AB, December 2005.
379. Xeroulis, G., Park, J., LeBlanc, V., **Dubrowski, A.** Teaching basic surgical skills to novices: A randomized controlled study comparing computer-based video instruction versus expert feedback. Research in Medical Education, Washington DC, November 2005.
380. **Dubrowski, A.**, MacRae, H. Investigation of optimal instructor to student ratios for teaching fundamental clinical skills to medical students: A randomized, control study. Research in Medical Education. Washington DC, November 2005.
381. Brydges, R., **Dubrowski, A.** Sensory integration: Adaptations of maximum grasp aperture to conflicting visual and proprioceptive sensory information. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Niagara Falls, ON, October 2005.
382. Gonzalez, D., **Dubrowski, A.**, Carnahan, H. The role of auditory cues in the anticipation of object mass when grasping. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Niagara Falls, ON, October 2005.
383. Larmer, J.C., Carnahan, H., **Dubrowski, A.** The effects of lifting unevenly balanced objects using a three digit grasp. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Niagara Falls, ON, October 2005.
384. Leming, J.K., Carnahan, H., Larmer, J.C. Xeroulis, G., **Dubrowski, A.** Influence of the use of a laparoscopic grasper on the anticipatory control of grasping forces. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Niagara Falls, ON, October 2005.
385. Shang, D., Carnahan, H., **Dubrowski, A.** Modeling of a laparoscopic needle driver: Implication for the design of virtual reality simulators. Medicine Meets Virtual Reality 14, Long Beach, CA, January 2006.

386. **Dubrowski, A.**, Larmer, J., Leming, J.K., Brydges, R., Park, J. Quantification of process measures in laparoscopic suturing. Medicine Meets Virtual Reality 14, Long Beach, CA, January 2006.
387. Park, J., Moulton, C., Larmer, J., MacRae, H.M., **Dubrowski, A.** Learning on incrementally complex tasks leads to the same performance as skills specific learning for laparoscopic suturing. Canadian Society for Clinical Investigation. Vancouver, BC, 2005.
388. Sidhu, R.S., Park, J., Brydges, R., MacRae, H.M., **Dubrowski A.** Optimizing surgical training outside of the operating room: An impact analysis of surgical experience and model fidelity on technical skills acquisition. The Royal College of Physicians and Surgeons of Canada, Vancouver, BC, September 2005.
389. **Dubrowski, A.**, Park, J., Moulton, C., Larmer, J., MacRae, H.M. Learning on incrementally complex tasks leads to the same performance as skills specific learning for laparoscopic suturing. Association for Medical Education Europe, Amsterdam, September 2005.
390. Torgerson, C., Chen, J., **Dubrowski, A.** The Effect of practice complexity on improvements in precision bone drilling in novice surgeons. Triological Society's 108th Annual Meeting, Boca Raton, FL, May 2005.
391. Leduc, J., Richards, L., Whitlaw, M., **Dubrowski, A.**, Carnahan, H. Effects of colour on perception of Mass and grip force production. Southwestern Ontario Psychomotor Behaviour Conference, Hamilton, ON, May 2005.
392. Gonzalez, D., **Dubrowski, A.**, Carnahan, H. Precutting forces using audition. Southwestern Ontario Psychomotor Behaviour Conference, Hamilton, ON, May 2005.
393. Leming, J.K., Carnahan, H., Larmer, J., Xeroulis, G., **Dubrowski, A.** The coordination of grasping forces during oscillatory movements performed with laparoscopic instruments. Southwestern Ontario Psychomotor Behaviour Conference, Hamilton, ON, May 2005.
394. Brydges, R., Backstein, D., Carnahan, H., **Dubrowski, A.** Influence of the contextual interference effect on the learning of an orthopedic bone plating task. Southwestern Ontario Psychomotor Behaviour Conference, Hamilton, ON, May 2005.
395. Xeroulis, G., Park, J., LeBlanc, V., Moulton, CA, Reznick, K.R., **Dubrowski, A.** The utility of computer-base instruction for teaching surgical skills to novices. The Slice of Life (AAMC: Workshops for Multimedia Developers, Educators, and Purveyors), Portland, OR, June 2005.
396. Sidhu, R.S. Park, J., **Dubrowski, A.** Teaching vascular technical skill: Understanding and evaluating motor performance. Canadian Vascular Meeting, Toronto, ON, June 2005.
397. Sidhu, R.S., Park, J., Brydges R., MacRae, H.M., **Dubrowski, A.** Laboratory based training in vascular anastomosis: A randomized controlled trial evaluating the effects of bench model fidelity and level of training on acquisition of skill. Canadian Vascular Meeting, Toronto, ON, June 2005.
398. Larmer, J., Leming, J.K., **Dubrowski, A.** Effects of repetitive lifting and visual information on grip generation and perception of heaviness. Progress in Motor Control V, State College, PA, June 2005.

399. Carnahan, H., Richards, L., **Dubrowski, A.**, Whitlaw, M. . Colour/Hue Cues in the Programming of Grasping Forces During Precision Grip. Progress in Motor Control V, State College, PA, June 2005.
400. **Dubrowski, A.**, Leming, K., Larmer, J., Xeroulis, G ., Carnahan, H. The coordination of gripping forces during oscillatory movements performed using laparoscopic grasper. World Haptics, Pisa, Italy, March 2005.
401. Whitlaw, M., **Dubrowski, A.**, Carnahan, H. Haptic memory: How much practice is required for the various memory systems? World Haptics, March 2005, Pisa, Italy.
402. Brydges, R., Classen, R., Larmer, J., Xeroulis, G., **Dubrowski, A.** Assessment of surgical skills: Potential for evaluating bench model training. The Association for Surgical Education. New York, NY, March 2005.
403. Xeroulis, G ., Park, J., LeBlanc, V., **Dubrowski, A.** Teaching basic surgical skills to novices: A randomized controlled study comparing computer-based video instruction versus expert feedback. The Association for Surgical Education. New York, NY, March 2005.
404. Hughes, S., Larmer, J., MacRae, H., **Dubrowski, A.** Structural flexibility of laparoscopic instruments: Implication for the design of virtual reality simulators, Long Beach, CA, January 2005.
405. Gonzalez, D., **Dubrowski, A.**, Praamsma, M., MacRae, H., Carnahan H. Control of laparoscopic instrument motion in an inanimate bench model: Implications for the training and evaluation of technical skills. Long Beach, CA, January 2005.
406. Torgerson, C., Chen, J., **Dubrowski, A.** Drilling bones with left handed tools: A left handed right? Easter Section Meeting, Tampa, FL, January 2005.
407. Brydges, R., **Dubrowski, A.** Evaluation of construct validity for computer based assessment: Ability to detect task complexity. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
408. Moulton, C., **Dubrowski, A.**, MacRae, H., Graham, B., Thompson, A., Reznick, R. Teaching surgical skills: Massed vs distributed practice. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
409. LeBlanc, V., **Dubrowski, A.**, Woodrow, S ., Sidhu, R., McDonald, C. Effects of examination stress on surgical skills of residents. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
410. **Dubrowski, A.**, Xeroulis, G. What do novice trainees want to see when learning basic surgical skills using computer-based instructions? Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
411. Leming, J.K., Carnahan, H., Larmer, J., Xeroulis, G., **Dubrowski, A.** The coordination of grasping forces during oscillatory movements performed with laparoscopic instruments. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
412. Shang, D., Carnahan, H., **Dubrowski, A.** Modeling of a laparoscopic needle driver: Implication for the design of virtual reality simulators. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
413. Xeroulis, G., Park, J., Moulton, C., Reznick, R.K., LeBlanc, V., **Dubrowski, A.** Teaching suturing and knot tying skills to medical students: A randomized controlled study Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.

414. Jowett, N.T.P., LeBlanc, V., Xeroulis, G., MacRae, H., **Dubrowski, A.** Self-assessment of technical surgical proficiency by medical students and the impact on self-directed training. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
415. Porte, M., Xeroulis, G., **Dubrowski, A.** The evaluation of motion analysis as a form of feedback to the novice surgical trainee. Wilson Centre Research Day. Sunnybrook, Toronto, ON, October 2005.
416. Moulton, C., **Dubrowski, A.**, MacRae, H., Graham, B., Thompson, A., Reznick, R. Teaching Surgical Skills: Massed Versus Distributed Practice. University of Toronto Wilson Centre Annual Research Day, Toronto, ON, 2005.
417. LeBlanc, V., **Dubrowski, A.**, Woodrow, S., Sidhu, R., McDonald, C. Effects of examination stress on surgical skills of residents. Wilson Centre, Toronto, ON, October 2005.
418. **Dubrowski, A.**, Park, J., Moulton, C., Larmer, J., MacRae, H.M. Learning on incrementally complex tasks leads to the same performance as skills specific learning for laparoscopic suturing. Wilson Centre, Toronto, ON, May 2005.
419. Xeroulis, G.* , LeBlanc, V., **Dubrowski, A.** Teaching basic surgical skills to novices: A randomized controlled study comparing computer-based video instruction versus expert feedback, Annual General Surgery Resident Research Competition, University of Western Ontario. London, ON, 2005. (*First Place Winner)
420. Brydges, R., Backstein, D., Carnahan, H., **Dubrowski, A.** Influence of the contextual interference effect on the learning of an orthopedic bone plating task. Wilson Centre, Toronto, ON, January 2005.
421. Park, J.* , LeBlanc, V., **Dubrowski, A.** The utility of computer-base instruction for teaching surgical skills to novices. 8th Annual General Surgery Resident Research Competition, University of Manitoba. Winnipeg, MB, 2005. (*First Place Overall Winner)
422. Stransky, D., Larmer, J., Park, J., MacRae, H.M., **Dubrowski, A.** Laparoscopic and open suturing: Subset of the same motor skills? Implications for teaching. Wilson Centre Research Day, Toronto, ON, October 2005.
423. Molodecky, N., Chou, W., Backstein, D., **Dubrowski, A.** Performance error is crucial variable for learning of orthopaedic bone drilling skills. Wilson Centre Research Day, Toronto, ON, October 2005.
424. Chou, W., Molodecky, N., Backstein, D., **Dubrowski, A.** How many holes does it take to get good, but not perfect? Wilson Centre Research Day, Toronto, ON, October 2005.
425. Weber, J., Carnahan, H., MacRae, H., **Dubrowski, A.** Time does not tell: Timing of performance on instrument suturing and knot tying in open surgery in not an optimal measure of skill acquisition. Wilson Centre Research Day, Toronto, ON, October 2005.
426. Gonzalez, D., **Dubrowski, A.**, Praamsma, M., Carnahan, H. Here's a Tip: Don't measure just the hand when evaluating laparoscopic performance. Wilson Centre Research Day, Toronto, ON, October 2005.
427. Larmer, J., Park, J., Moulton, C-A., MacRae, H.M., **Dubrowski, A.** Learning on incrementally complex tasks to the same performance as skill specific learning for laparoscopic suturing. Wilson Centre Research Day, Toronto, ON, October 2005.
428. **Dubrowski, A.**, Backstein, D., Abugjaduma, R., Carnahan, H. The influence of practice schedules in the learning of a complex bone-plating surgical task. Wilson Centre Research Day, Toronto, ON, October 2005.

429. Praamsma, M., Carnahan, H., Backstein, D., Gonzalez, D., Veillette, C., **Dubrowski, A.** Don't talk to me while I'm drilling! Wilson Centre Research Day, Toronto, ON, October 2005.
430. **Dubrowski, A.**, Sidhu, R., Park J., Carnahan, H. Objective, computer-assisted quantification of suturing skills in novice and experts. Research in Medical Education, Boston, MA, November 2004.
431. Hung, C., Gonzalez, D., **Dubrowski, A.**, Carnahan, H. Surface exploration using tools: The perception of friction. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
432. Praamsma, M., Carnahan, H., Backstein, D., Gonzalez, D., Veillette, C., **Dubrowski, A.** The use of auditory cues when drilling in a bone by novice and expert orthopedic surgeons. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
433. Weber, J., Carnahan, H., MacRae, H., **Dubrowski, A.** Timing of performance on instrument suturing and knot tying in open surgery is not an optimal measure of skill acquisition. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
434. Gonzalez, D., **Dubrowski, A.**, Praamsma, M., Carnahan, H. Control of laparoscopic prehension movements. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
435. Larmer, J., Stransky, D., **Dubrowski, A.** Perception of object heaviness is not influenced by the production of grasping forces during repetitive lifting. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
436. Richards, L., Whitlaw, M., **Dubrowski, A.**, Carnahan, H. Colour hue influences grip force generation during lifting. Canadian Society for Psychomotor Learning and Sport Psychology (SCAPPS), Saskatoon, SK, October 2004.
437. McFadyen, B.J., Carnahan, H., **Dubrowski, A.** Orthogonal control during obstructed pointing. Society for Neuroscience, San Diego, CA, November 2004.
438. **Dubrowski, A.**, Sidhu, R., Park, J., Brydges, R., MacRae, H. Challenging the Optimal Challenge Point Model. NASPSPA, Vancouver, BC, June 2004.
439. Praamsma, M., Backstein, D., Veillette, C. J. H, Gonzales, D., Carnahan, H., **Dubrowski, A.** Levels of expertise and the use of auditory cues in the control of an orthopedic bone-drilling task – kinematic analyses. South Western Ontario Motor Behavior Meeting, Toronto, ON, May 2004.
440. Whitlaw, M., **Dubrowski, A.**, Carnahan, H. Haptic memory: How much practice is required for the various memory systems? South Western Ontario Motor Behavior Meeting, Toronto, ON, May 2004.
441. Larmer, J., Carnahan, H., **Dubrowski, A.** Hazardous materials gloves cause inaccurate digit placement when lifting objects using a pinch grip South Western Ontario Motor Behavior Meeting, May 2004, Toronto, ON.
442. Torgerson, C., Chen, J., **Dubrowski, A.** The use of left-handed drills by left-handed participants enhances learning and performance on precision drilling of artificial bones. South Western Ontario Motor Behavior Meeting, Toronto, ON, May 2004.

443. Praamsma, M., Darroch, B., **Dubrowski, A.**, Carnahan, H. Intercepting moving objects in simulated weightlessness. Aerospace Medical Association Meeting, Anchorage, Alaska, May 2004.
444. **Dubrowski, A.**, Sidhu, R., Park J., Carnahan, H. Quantification of motion characteristics and forces applied to the tissues during suturing. Association for Surgical Education, Houston, TX, May 2004.
445. Carnahan, H., Gonzalez, D., Brydges, R., Kowalski, K., **Dubrowski, A.** Haptic feedback for texture discrimination: From open to minimally invasive surgery. Association for Surgical Education, Houston, TX, May 2004.
446. Veillette, C., Praamsma, M., Backstein, D., Carnahan, H., Gonzalez, D., **Dubrowski, A.** Are auditory cues used to control hand motion and force application during bone drilling. Canadian Orthopaedic Residents Association Annual Meeting, Toronto, ON, November 2004.
447. Veillette, C.J.H.*, **Dubrowski, A.**, Backstein, D. Use of auditory cues for the control of hand motion and force application during surgical bone drilling task. Kennedy Day – Division of Orthopedic, Toronto, ON, November 2004. (*Kennedy Day Senior Resident Research Award Winner)
448. Woodrow, S.*, Park, J., **Dubrowski, A.** Quantification of motion characteristics and forces applied to the tissues during suturing. 3rd Annual Gallie Bateman Poster Session and Competition, May 2004, Toronto, ON. (*Wyeth-Ayerst Award Winner)
449. Torgerson, C., Chen, J., **Dubrowski, A.** The use of left-handed drills by left-handed participants enhances learning and performance on precision drilling of artificial bones. 3rd Annual Gallie Bateman Poster Session and Competition, May 2004, Toronto, ON.
450. Torgerson, C., Chen, J., **Dubrowski, A.** Effects of practice complexity on improvements in precision bone drilling in novice. 3rd Annual Gallie Bateman Poster Session and Competition, Toronto, ON, May 2004.
451. Abughaduma, R., Backstein, D., **Dubrowski, A.** Effects of practice schedule on the acquisition of a complex bone-plating surgical procedure. 3rd Annual Gallie Bateman Poster Session and Competition, Toronto, ON May 2004.
452. Torgerson, C.*, Chen, J., **Dubrowski, A.** The use of left-handed drills by left-handed participants enhances learning and performance on precision drilling of artificial bones. Department of Otolaryngology, University of Toronto, Percy Ireland Presentations, Toronto, ON, May 2004. (*1st Prize Winner)
453. **Dubrowski, A.**, Sidhu, R., Park, J., Brydges, R., MacRae, H. Challenging the Optimal Challenge Point Model. The Wilson Centre Research Rounds, Toronto, ON, April 2004.
454. **Dubrowski, A.**, Brydges, R. Educational Research at the Surgical Skills Centre. Developing a Surgical Skills Centre – Retreat, Toronto, ON, December 2003.
455. Abughaduma, R., Backstein, D., **Dubrowski, A.** The effect of part-whole practice schedule on the acquisition of complex bone plating surgical procedure. Orthopedic Research Day, Toronto, ON, May 2003.
456. **Dubrowski, A.**, MacRae, H. Assessing the effectiveness of a new method for measuring technical skills in surgery. RIME Conference, Washington, DC, November 2003.

457. **Dubrowski, A.**, LeBlanc, V., MacDonald, R., Praamsma, M., Darroch, B.A., Carnahan, H. Sensory and performance decrements when wearing Hazardous Materials gloves. SCAPPS. Hamilton, ON, October 2003.
458. Praamsma, M., Darroch, B., **Dubrowski, A.**, Carnahan, H. Learning to intercept targets moving at constant velocities: A space simulation. SCAPPS. Hamilton, ON, October 2003.
459. Brydges, R, Darroch, B., Praamsma, M., Carnahan, H., **Dubrowski, A.** The use of laparoscopic surgical instruments and the perception of surface roughness. SCAPPS. Hamilton, ON, October 2003.
460. Kowalski, K., Gonzalez, D., **Dubrowski, A.**, Carnahan, H. The integration of visual and haptic inputs in the perception of surface roughness. SCAPPS. Hamilton, ON, October, 2003.
461. Gonzalez, D., Kowalski, K., Carnahan, H., **Dubrowski, A.** Magnification of the visual field and haptic perception when exploring surfaces with surgical snaps. SCAPPS. Hamilton, ON, October 2003.
462. **Dubrowski, A.**, Backstein, D. Use of hand motion and applied drilling force characteristics in the evaluation of surgical bone drilling task. Department of Surgery Research Rounds, University of Toronto, Toronto, ON, November 2003.
463. **Dubrowski, A.**, Carnahan, H. Size mass illusion affects grip force production in the right hand when simultaneously lifting objects in the left hand. Society for Neuroscience, Orlando, FL, October 2002.
464. Sinnaeve, A., **Dubrowski, A.**, Carnahan, H. Evidence for the use of both iconic and long term memory systems for friction when grasping. Society for Neuroscience, Orlando, FL, 2002.
465. **Dubrowski, A.**, Carnahan, H. The influence of size-mass illusion presented to the left hand on grip force production in the right hand – preliminary results. Southern Ontario Motor Behavior Meeting, Hamilton, ON, May 2002.
466. **Dubrowski, A.** Hand Dominance and the Performance of Surgical Skills: Should Beginner Surgeons Brush Their Teeth with the Left Hand? Department of Surgery Research Rounds, University of Toronto, Toronto, ON, November 2002.
467. Sinnaeve, S.E., McCullough, S.E., **Dubrowski, A.**, Carnahan, H. Temperature effects on haptic perception and force production when grasping: Is there dissociation? SCAPPS. Montreal, QC, October 2001.
468. McCullough, S.E., **Dubrowski, A.**, Carnahan, H. The size-weight illusion does not transfer from the right hand to the left. SCAPPS, Montreal, QC, October 2001.
469. Carnahan, H., **Dubrowski, A.**, McCullough, S.E. Temperature influences both haptic perception and force production when grasping. Society for Neuroscience, San Diego, CA October 2001.
470. **Dubrowski, A.**, Teigrob, A., Vasarhelyi, E.M., Carnahan, H. Finger placement strategies for torque compensation. Society for Neuroscience, San Diego, CA, October 2001.
471. **Dubrowski, A.**, Roy, E.A., Black, S.E., Carnahan, H. Effects of unilateral basal ganglia damage on the practice induced suppression of the size weight illusion. International Conference on Motor Control, Varna, Bulgaria, September 2001.

472. McCullough, S.E., **Dubrowski, A.**, Carnahan, H. The duration of haptic memory for object mass. International Conference on Motor Control, Varna, Bulgaria, September 2001.
473. **Dubrowski, A.**, Proteau, L., Carnahan, H. The integration of visual and haptic cues and practice schedules on grip force during lifting. Progress in Motor Control: From Basic Science to Applications. August 2001, Montreal, PC.
474. **Dubrowski, A.**, Carnahan, H. Finger placement strategies in controlling objects with unbalanced mass distribution. Southwestern Ontario Psychomotor Behavior Meeting, Toronto, ON, April 2001.
475. **Dubrowski, A.**, Carnahan, H. Stereotypical coordination of grip and load forces in a dynamic task caused by unilateral basal ganglia damage. Graduate Student Research Conference, Waterloo, ON, April 2001.
476. Bedard, P., **Dubrowski, A.**, Proteau, L., Carnahan, H. Grasping of objects in peripheral visual field. SCAPPS, October 2000, Waterloo, ON.
477. Shih, R.H., **Dubrowski, A.**, Carnahan, H. Haptic memory: How long does it last? SCAPPS, October 2000, Waterloo, ON.
478. Grierson, L., **Dubrowski, A.**, Carnahan, H. The influence of visual input on haptic perception of object curvature. SCAPPS, October 2000, Waterloo, ON.
479. McCullough, S., **Dubrowski, A.**, Carnahan, H. The effects of object curvature and tilt angle on grip force distribution. SCAPPS, October 2000, Waterloo, ON.
480. **Dubrowski, A.**, Carnahan, H., Roy, E.A., Westwood, D., Heath, M.D., Black, S.E. Grip force control in an individual with unilateral basal ganglia damage. SCAPPS, October 2000, Waterloo, ON.
481. **Dubrowski, A.**, Carnahan, H. The use of target acceleration for action and perception. Symposium: Eye Movements and Vision in the Natural World, Amsterdam, NL, September 2000.
482. Vasarhelyi, E.M., **Dubrowski, A.**, Carnahan, H. An evaluation of a single-channel model of prehension. Society for Neuroscience, New Orleans, LA, November 2000.
483. **Dubrowski, A.**, Carnahan, H., Roy, E.A., Westwood, D., Heath, M.D., Black, S.E. Visual size cues in the programming of grip and load force in an individual with unilateral basal ganglia damage. Society for Neuroscience, New Orleans, LA, November 2000.
484. **Dubrowski, A.**, Carnahan, H., Roy, E.A., Westwood, D., Heath, M.D., Black, S.E. Changes in grip-load force coordination in a patient with unilateral basal ganglia damage. Annual Neural Control of Movement Meeting, Key West, FL, April 2000.
485. **Dubrowski, A.**, Proteau, L., Carnahan, H. Practice influences the coordination of visual and haptic inputs during grasping. Society for Neuroscience, Miami, FL, October 1999.
486. Vasarhelyi, E.M., **Dubrowski, A.**, Carnahan, H. The effects of vision on finger kinematics and force generation: A test of a new grasping model. SCAPPS, Edmonton, AB, October 1999.
487. **Dubrowski, A.**, Carnahan, H. Target momentum and torque contribute to force generation magnitude when grasping moving targets. SCAPPS, Edmonton, AB, October 1999.
488. **Dubrowski, A.**, Carnahan, H. Action – Perception dissociation in response to target acceleration. Theoretical and Experimental Neuropsychology meeting (TENNET), Montreal, QC, June 1999.

489. **Dubrowski, A.**, Elliott, D., Vasarhelyi, T., Carnahan, H. The effects of visual fixation and target motion on manual interception. Southern Ontario Motor Behaviour Meeting, Waterloo, ON, May 1999.
490. Vasarhelyi, E.M., **Dubrowski, A.**, Elliot, D., Carnahan, H. Visual fixation and target velocity influence on manual interception. Southern Ontario Motor Behaviour Meeting, Waterloo, ON, May 1999.
491. **Dubrowski, A.**, Carnahan, H. Torque influences on grip force control in the interception of moving targets. Southern Ontario Motor Behaviour Meeting, Waterloo, ON, May 1999.
492. **Dubrowski, A.**, Wells, C., Carnahan, H. Momentum is a controlled variable in grasp force modulation. Society for Neuroscience, November 1998, Los Angeles, CA.
493. **Dubrowski, A.**, Carnahan, H. Evidence of anticipatory planning when intercepting moving targets. SCAPPS, Fredericton, NB, October 1998.
494. **Dubrowski, A.**, Wells, C., Carnahan, H. Factors influencing grip forces when grasping moving objects. Southwestern Ontario Psychomotor Behavior Meeting, Hamilton, ON, May 1998.
495. Wells, C., Carnahan, H., **Dubrowski, A.**, Proteau, L. The effect of a moving background on pointing and prehension. Southern Ontario Motor Behaviour Meeting, Hamilton, ON, May 1998.
496. **Dubrowski, A.**, Carnahan, H. Can target acceleration be used during both manual interception and perceptual judgments? SCAPPS, Niagara Falls, ON, October 1997.
497. **Dubrowski, A.**, Carnahan, H. The effect of target exposure duration on hand trajectory during the manual interception of moving targets. International Conference on Vision and Action, July 1997, Toronto, ON.
498. **Dubrowski, A.**, Carnahan, H. What sort of visual information do we use, and when do we use it when intercepting a moving target? Southwestern Ontario Psychomotor Behavior Meeting, London, ON, May 1997.
499. Carnahan, H., Mason, A.H., **Dubrowski, A.** Is tactile input used on-line during reaching and grasping? Annual Neural Control of Movement Meeting, Cancun, Mexico, April 1997.
500. **Dubrowski, A.**, Carnahan, H. Support for acceleration information utilization in manual interception tasks. Southern Ontario Motor Behaviour Meeting, Waterloo, ON, December 1996.
501. **Dubrowski, A.**, Patla, A. E. Influence of optic flow on ego velocity perception during treadmill walking. 9th Biennial Conference and Symposia of Canadian Society of Biomechanics, Vancouver, BC, July 1996.

4.2 Invited Lectures

1. **Dubrowski, A.** The right tool for the job. Obstractics and Gynecology Research Rounds, St. John's, NL, May 2014.
2. **Dubrowski, A.** Simulation Research Capacity Building & Development. Canadian Anesthesia Society ACUDA Research Section Meeting. St. John's, NL, June 2014.
3. **Dubrowski, A.** The Right Tool for the Job: Accelerating Skills Acquisition in Health Professions Through Focused Simulated-Skills Training. Human Kinetics and Recreation Research Rounds. St. John's, NL, April 2014.

4. **Dubrowski, A.** Cascade of Train the Trainer Program in Ethiopia. Global Health Office Rounds, Memorial University of Newfoundland, St. John's, NL, February 2014
5. *Rojas D, Kapralos B, **Dubrowski A.** Gamification in health professions education, and its approach within online learning. Gamification Congress, Santiago de Chile, Chile, November 10-14 2014.
6. *Rojas D, Kapralos B, **Dubrowski A.** Gamification, misconceptions and alternatives to implement it within Online Learning. Seminar on Serious Games and Gamification, Bogota, Colombia, September 15-19 2014.
7. **Dubrowski, A.** The Right Tool for the Job. Department of Pediatrics Ground Rounds, Memorial University of Newfoundland, St. John's, NL, September 2013
8. **Dubrowski, A.** Simulation in Health Professions Education: From Theory to Implementation. Memorial University of Newfoundland, St. John's, NL, June 2013
9. **Dubrowski, A.** The Right Tool for the Job. Simulator Program 12th Annual Gala, Boston Children's Hospital, Boston, MA, October 2013
10. **Dubrowski, A.** Progressive Simulation for Pediatric Skills Training. International Pediatric Simulation Society, New York City, NY, April 22-25 2013
11. **Dubrowski, A.** Collaborative Online Learning Resources in Health Professions Education. The 15th International Conference on Humans and Computers, Hamamatsu, Japan, February 11-12 2013.
12. *Haji F, **Dubrowski A.** Simulation in Health Professions Education: State of the Science. Guest lecture, TPS1808H: Research in Health Professions Education. Graduate course, Ontario Institute for Studies in Education, University of Toronto, Toronto, ON, March 20th, 2013.
13. Cowan B, Rojas D, Kapralos B, Collins K, and **Dubrowski A.** Spatial sound and its effect on visual quality perception and task performance within a virtual environment. Proceedings of the 21st International Congress on Acoustics, Montreal, QC, June 2-7 2013.
14. Kapralos B, and **Dubrowski A.** The use of virtual learning environments to augment and extend simulation-based health professional's education. Healthcare Simulation Conference and Networking Event: Simulation and Technology for Improved HealthCare and Education, Toronto, ON, March 2 2012.
15. **Dubrowski, A.** Program Evaluation: Old Dog with New Tricks. Association of Professors in Obstetrics and Gynecology of Canada (APOG) Annual Meeting, Toronto, ON, December 2012.
16. **Dubrowski, A.** Trends in Simulation Augmented Education Research. Interdisciplinary Radiology Oncology Rounds, Sunnybrook Hospital, Toronto, ON, March 2012.
17. *Haji F, **Dubrowski A.** Evaluation of simulation and E-learning: the role of research. Guest lecture, CSCI5530: Serious Games Development. Graduate course, University of Ontario Institute of Technology, Oshawa, ON, April 13 2012.
18. Kapralos, B., **Dubrowski, A.** The use of virtual learning environments to augment and extend simulation-based health professional's education. Healthcare Simulation Conference and Networking Event: Simulation and Technology for Improved HealthCare and Education. Toronto, ON, March 2012.
19. **Dubrowski, A.** The Use of Custom Designed Educational Networking in Health Profession Education. Best Practices in Medical Education, Centre for Faculty Development, University of Toronto, Toronto, ON, March 2012

20. **Dubrowski, A.** Role of Motor Learning Theory in Health Professions Education: Evolution of a Program of Research. Meeting of Theory-Oriented Researchers Working in an Applied Setting near Lake Erie “The Bayfield Meeting”, Bayfield, ON June 27-28 2011
21. **Dubrowski, A.** Research in simulation augmented health professions education. Acute Care Research Rounds. Hospital for Sick Children, Toronto, ON, December 2010.
22. **Dubrowski, A.** Trends in Simulation Research. Canadian Network for Pediatric Simulation. Toronto, ON, November 2010.
23. **Dubrowski, A.** The different uses of simulation: From education to product testing, University of Calgary, Calgary, AB, November 2010.
24. **Dubrowski, A.** Models for Assessing Learning and Evaluating Learning Outcomes. IASP Pain Education Satellite Symposium, 13th World Congress on Pain, Toronto, ON, August 26-27 2010.
25. **Dubrowski, A.** Evidence based, simulation-augmented education for health professions, Child Health Evaluative Sciences Rounds, Research Institute, Hospital for Sick Children, Toronto, ON, April 2010.
1. **Dubrowski, A.** Best practices for Simulation in Health Professions Education MODSIM, June 2009, Montreal, QC.
2. **Dubrowski, A.** Best practices for Simulation in Health Professions Education Seminario Internacional Ingenieria Electronica III, May 2009, Bacuramanga, Colombia.
3. **Dubrowski, A.,** Pittini, R., Kneebone, R. Perspectives on Simulation. Addis Ababa University, Addis Ababa, November 2008.
4. **Dubrowski, A.** Enabling Health Professions Education: The Role of Simulation. Department of Urology, Regionshospitalet Viborg, Denmark, March 2008.
5. **Dubrowski, A.** Simulation Augmented Education by Design. 10th Annual Medical Education Day. The Hospital for Sick Children and The University of Toronto, Toronto, ON, February 2008.
6. **Dubrowski, A.** Enabling Health Professions Education: The role of Simulation. Faculty of Nursing, University of Toronto, Toronto, ON, May 2007.
7. **Dubrowski, A.** Teaching surgical skills in Ethiopia – Educational Performance of Surgical Skills Labs in Sub Saharan Africa. Office of International Surgery: University Wide International Surgery Rounds, Toronto, ON, April 2007.
8. **Dubrowski, A.** Multi-sensory integration for the optimal performance of manual skills. Department of Surgery Research Rounds, University of Toronto, Toronto, ON, February, 2007.
9. **Dubrowski, A.** Human motor behavior in space: Implications for health delivery. Canadian Space Society, Toronto, ON, December 2006.
10. Satterthwaite, L., Howard, A., **Dubrowski, A.** Surgical Skills Centre: Knobs and bolts, pedagogical benefits and research in surgical education. Black Lion Hospital, Addis Ababa University, Addis Ababa, Ethiopia, October 2006.
11. **Dubrowski, A.** Kinesiology in Medical Education. American Association for Applied Sport Psychology, Miami, FL, September 2006.
12. Park, J†., **Dubrowski, A.** Quantification of motion and forces applied to tissues during suturing. University of Manitoba Faculty of Medicine Annual Education Day, Winnipeg, Manitoba, March, 2005.

13. Torgerson C†., Zirkle, M†., **Dubrowski, A.** Simulation in ENT and related topics. Department of Otolaryngology, University of Toronto, Toronto, ON, January 2005.
14. Backstein, D., **Dubrowski, A.** A new model for technical skills training in Orthopaedic Surgery. Ontario Orthopaedic Association. Toronto, ON, December 2004.
15. **Dubrowski, A.** Surgical Training Out of the Operating Room: Research at the Surgical Skills Centre at Mount Sinai Hospital. Department of Obstetrics and Gynecology's Grand Rounds, University of Vermont. Burlington, VT, December 2003.
16. **Dubrowski, A.** The application of motor learning theory to surgical skills training. Department of Surgery, University of Toronto, Toronto, ON, June 2002.
17. **Dubrowski, A.** CNS contributions to muscle tone and muscle coordination. Canadian Memorial Chiropractic College, Toronto, ON, May 2002.
18. **Dubrowski, A.** Contributions of vision and haptics to the generation of grip forces when lifting small objects. SCAPPS. Montreal, QC, October 2001.
19. **Dubrowski, A.**, Carnahan, H. Integration of vision and haptics when grasping moving targets. Institute of Physiology, German Sports University, Koeln, Germany, May 1998.
20. **Dubrowski, A.**, Carnahan, H. Manual interception of moving targets: An overview. Rotterdam, The Netherlands, Vakgroep Fysiologic, Erasmues Universiteit, Rotterdam, The Netherlands, May 1998.

4.3 Workshops outside of the university

1. **Dubrowski A**, Dubrowski R. Adapted Implementation Model for Simulation. Sim Expo. November 12-13, 2018, Calgary, AB, CA.
2. Dubrowski R, **Dubrowski A**, Richards P. Using Implementation Science. Simulation Summit, September 28-29, 2018, Ottawa, ON, CA.
3. Parsons M, Richards P, Pritchett-Kelly S, **Dubrowski A.** Development of hybrid simulation. International Meeting on Simulation in Healthcare, Los Angeles, January 2018.
4. **Dubrowski A**, Barac R. "I wish I knew this before..." Using implementation science to construct and implement simulation programs in medical education context. International Meeting on Simulation in Healthcare, Los Angeles, January 2018.
5. **Dubrowski A.** A Framework for simulation education and training: moving from research projects to programs of research. Simulation Summit, St. John's, November 2017.
6. **Dubrowski A**, Pollard M, Horwood C. Surviving the Publish or Perish Paradigm: Scholarly Writing for Non-Researchers. Family Medicine Preceptors Meeting. St. John's NL, November 21, 2016.
7. **Dubrowski A**, Renouf T, Whalen D, Jong M. Simulation for rural and low resource training. 13th WONCA Rural, Breaking down barriers: Bringing People Together. April 15-18, 2015, Dubrovnik, Croatia.
8. Renouf T, **Dubrowski A**, Jong M. Ultrasound workshop: FAST and Limited Echo. 13th WONCA Rural, Breaking down barriers: Bringing People Together. April 15-18, 2015, Dubrovnik, Croatia.
9. Angus, K., Mathieson, S, **Dubrowski, A.**, Making Most out of Simulation. Medical Education Scholarship Centre (MESCC) Forum. May 2014
10. **Dubrowski, A.** et al., Meta-Leadership 101: Influencing Organizational Success. Medical Education Scholarship Centre (MESCC) Forum. May 2014

11. **Dubrowski, A.** Living Labs: The Case of Point-of-Care Ultrasound Education. Medical Education Scholarship Centre (MESCC) Forum. May 2014.
12. **Dubrowski, A.**, *De Silva, C., *Haji, F., Carnahan. Turning Research Projects into Programs. International Pediatric Simulation Symposia and Workshops, New York City, USA, April 22-25, 2013
13. Kapralos, B., **Dubrowski, A.**, *Haji, F., Cowan, B., Shewaga, B. An introduction to serious games, and (virtual) simulation for health professions education. Medicine Meets Virtual Reality, San Diego, CA, March 2013.
14. **Dubrowski, A.**, *Da Silva, C., *Haji, F. A Framework for simulation education and training. Orlando, FL., January, 2013.
15. **Dubrowski, A.**, *Da Silva, C., *Haji, F. A Framework for simulation education and training: moving from research projects to programs of research. Simulation Summit, Ottawa, November 2012.
16. Carnahan, H., **Dubrowski, A.**, Williams, C., McNaughton, N. Interprofessional simulation in the context of ambulatory care education (ACE). Simulation Summit, Ottawa, November 2012.
17. Louca, E., Murray, D., E., **Dubrowski, A.** What's the Issue...Skills, Knowledge or Attitudes? Utilizing Simulation to Identify Gaps in Practice Leading to Errors in Patient Care. Patient Safety Symposium, Hospital for Sick Children, Toronto June 2012.
18. **Dubrowski, A.** Practical Uses of Simulation in Psychiatry. CME Faculty Development Workshop, University of Toronto, Toronto, June 2012.
19. Parker, K., **Dubrowski, A.** From Questions to Frameworks to Questions. Summer Simulation Institute for Nursing, George Brown College, Toronto, June 2012.
20. **Dubrowski, A.**, Koh, J. Simulation: Theories, Frameworks and Methods. Bloorview-Holland Kids Rehabilitation Hospital Education Day, March 2012.
21. Martimianakis, T., Myopoulos, M., Parker, K., **Dubrowski, A.** Medical Education Research Rounds (monthly series): Innovation. September 2010-May 2011, Department of Pediatrics, University of Toronto, Toronto, ON
22. **Dubrowski, A.**, Etkin, M., Shafir, U. Enhancing conceptual thinking in medical education with Meaning Equivalence Reusable Learning Objects (MERLO) and Interactive Concept Discovery (InCoD). 1st International Conference on Faculty Development, May 2011, Toronto, ON
23. Lax L, Watt-Watson J, Lui M, **Dubrowski A**, McGillion M, Hunter J, MacLennan C, Knickle K, & Robb A. Educational Design of a Web-based Interprofessional Pain Curriculum Resource for Pre-licensure Health Sciences Students. (presenters: L Lax, M Lui & A Dubrowski). IASP Pain Education Satellite Symposium, 13th World Congress on Pain, Aug. 26-27, 2010, Toronto, ON, Canada.
24. Cristancho, S*, **Dubrowski, A.** Applying a Cognitive Engineering Method for Designing Progression-based Simulation in Medical Education. May 2010, Canadian Conference on Medical Education, St. John's, Newfoundland, CA.
25. **Dubrowski, A.** Topic on experimental research methods. Medical Education Scholarship Rounds. February 2010. Department of Paediatrics, University of Toronto, Toronto, ON, CA.
26. **Dubrowski, A.**, Cristancho, S*. M., Walsh, C. The sum of its parts is greater than the whole" Optimizing the effectiveness of simulation resources. November 2009. Learning Institute Development Series. Toronto, ON, CA.

27. **Dubrowski, A.**, Brydges, R*. The sum of its parts is greater than the whole” - Optimizing the effectiveness of simulation resources. Royal College of Physicians and Surgeons of Canada, October 2009, Victoria, BC, CA.
 28. Kapralos, B., Hogan, M., Brydges, R*, **Dubrowski, A.** Wikis, blogs, podcasts and serious games: What should educators know about the learning needs of their students? International Conference on Health Professions Education, May 2009, Toronto, ON, CA.
 29. Kapralos, B., Tahsiro, J., Hogan, Finney, K, **Dubrowski, A.** Serious games: video game-based learning for health education and training. Tutorial participant Health Professionals Education (HPE) – Global Best Practices in Simulation. May 2009, Toronto, Canada.
 30. **Dubrowski, A.**, Kapralos, B., Hogan M. Blogs, podcasts and serious games: What should educators know about the learning needs of their students? Tutorial participant Health Professionals Education (HPE) – Global Best Practices in Simulation 2009. May 2009, Toronto, Canada.
 31. **Dubrowski, A.**, Tahsiro, J., Hogan, Finney, K, Kapralos, B. Games for health education. Organized and led this tutorial FuturePlay @ GDC Canada. May 2009, Vancouver, Canada.
 32. **Dubrowski, A.** Assessing Competencies in Interprofessional Education. What Really Works in Educational Simulations for Healthcare. HETRU. November 2008, Oshawa, ON.
 33. Assessing Performance & Competencies within Simulated Clinical Environments. **Dubrowski, A.** What Really Works in Educational Simulations for Healthcare. HETRU. November 2008, Oshawa, ON.
 34. Wikis, blogs, podcasts and serious games: What should educators know about the learning needs of their students? **Dubrowski, A.**, Hogan, M., Brydges, R*, Otchere, Y. Kapralos, B. Canadian Association for Medical Education, May 2008, Montreal, QC.
 35. **Dubrowski, A.**, Brydges, R., Gofton, W., Xeroulis, G. Issues in computer based video training: Instructions, guidance and feedback. Canadian Association for Medical Education, 2006, London, ON.
 36. **Dubrowski, A.**, Brydges, R., Gofton, W., Xeroulis, G. Issues in computer based video training: Instructions, guidance and feedback. Association for Surgical Education, March, 2006, Tucson, AZ.
 37. **Dubrowski, A.**, Carnahan, H., Hamstra, S.J., Backstein, D., Grober, E.D. Motor learning: How far have we come since Kopta? Association for Surgical Education, May 2003, Vancouver, BC.
- 21.

5.0. TRAINEE SUPERVISION, MENTORSHIP and TEACHING

5.1 Supervision and mentorship

The first category of student teaching includes the supervision of undergraduate medical students, residents, junior faculty members and clinicians in their research projects. I am actively supervising several such individuals in their research projects. In addition, I also supervise and co-supervise graduate students at Memorial University, the University of Toronto and the University of Ontario Institute of Technology, as explained in the following section.

I have developed several novel ways to introduce the students to research and scholarship, and also helped them to develop as medical experts. For example, we prepare technical reports, which take real-life clinical cases, used for bedside teaching, and prepare them as simulation cases, with subsequent publication of these technical reports on Cureus Journal of Medical Science.com. An abstract describing this approach was accepted for presentation at the National Simulation Summit meeting, it will be presented in November by one of my students.

5.1.a Undergraduate students

P - Primary Supervisor
S - Secondary Supervisor
J - Joint Supervisor
E - External Examiner
I - Internal Examiner
A - Program Advisor

2021-present: Allen, Zachary, Capstone project, Faculty of Informatics and Business Technology, Ontario Tech
2021-present: Baig, Mirza, Capstone project, Faculty of Informatics and Business Technology, Ontario Tech
2021-present: Pais, Nigel, Capstone project, Faculty of Informatics and Business Technology, Ontario Tech
2021-present: Zhou, Ri, Capstone project, Faculty of Informatics and Business Technology, Ontario Tech
2021-present: Sadia, Maisha, Capstone project, Faculty of Informatics and Business Technology, Ontario Tech
2020-present: Arutiunian, Artur, Research Practicum, maxSIMmaker, Faculty of Health Science, Ontario Tech University
2020-present: Gavilanez, Kassandra, Research Practicum, Faculty of Health Science, Ontario Tech University
2020-present: Jamal, Hamza (preferred name Kabira), Research Practicum, Faculty of Health Science, Ontario Tech University
2020-present: Malik, Zuhra, Research Practicum, Faculty of Health Science, Ontario Tech University
2020-present: Micallef, Julia (maxSIMmaker)
2020-present: Jolly, Amanpreet, Undergraduate, maxSIMmaker, Faculty of Health Science, Ontario Tech University
2020-present: Shah, Sarthak, Undergraduate, maxSIMmaker, Faculty of Health Science, Ontario Tech University
2020-present: Siraj, Samyah, Research Practicum, Faculty of Health Science, Ontario Tech University
2019-2020 Samira Wahab, Undergraduate Student, Faculty of Health Sciences, Ontario Tech University
2019-2020 Krystina Clarke, Undergraduate Student, Faculty of Health Sciences, Ontario Tech University

- 2019-2020 Adriana Chong, Undergraduate Student, Faculty of Health Sciences, Ontario Tech University
- 2019-2020 Timothy Weber, Undergraduate Student, Faculty of Health Sciences, Ontario Tech University
- 2017-2019 Jessica Guy, Undergraduate medical student, Memorial University [P]
- 2017-2019 Myfanwy Price, Undergraduate medical student, Memorial University [P]
- 2017-2019 Jun Ha Lee, Undergraduate medical student, Memorial University [P]
- 2017-2019 Michael Gilbert, Undergraduate medical student, Memorial University [P]
- 2017-2019 Dakotah Jones Noseworthy, Undergraduate medical student, Memorial University [P]
- 2017-2019 Aanchal Ralhan, Undergraduate medical student, Memorial University [P]
- 2017-2019 Erica Hayward, Undergraduate medical student, Memorial University [P]
- 2017-2019 Munawar Peer, Undergraduate medical student, Memorial University [P]
- 2017-2019 Venessa Pickard, Undergraduate medical student, Memorial University [P]
- 2017-2019 Tyler Cole, Undergraduate medical student, Memorial University [P]
- 2017-2019 Maggie O'Dea, Undergraduate medical student, Memorial University [P]
- 2017-2019 Lindsay Webster, Undergraduate medical student, Memorial University [P]
- 2017-2019 Chantae Garland, Undergraduate medical student, Memorial University [P]
- 2017-2019 Jamie Wilson, Undergraduate medical student, Memorial University [P]
- 2017-2019 Karla Eva Ellen Finn, Undergraduate medical student, Memorial University [P]
- 2017-2018 Heather Finn, Undergraduate medical student, Memorial University [P]
- 2016-2018 Felix Zohu, Undergraduate medical student, Memorial University [P]
- 2016-2018 Eugene Krustev, Undergraduate medical student, Memorial University [P]
- 2016-2018 Robert Jong, Undergraduate medical student, Memorial University [P]
- 2016-2019 Travis Pckett, Undergraduate medical student, Memorial University [P]
- 2015-2019 Stephen Ryan, Undergraduate medical student, Memorial University [P]
- 2015-2019 Michael Bartellas, Undergraduate medical student, Memorial University [P]
- 2014-2018 Heather McCarthy, Undergraduate medical student, Memorial University [J]
- 2014-2017 Holly Black, Undergraduate medical student, Memorial University [J]
- 2014-2018 Desmond Whalen, Undergraduate medical student, Memorial University [J]
- 2014-2018 Kerry-Lynn Williams, Undergraduate medical student, Memorial University [P]
- 2014-2017 Holly Black, Undergraduate medical student, Memorial University [J]
- 2014-2015 Justin Murphy, Undergraduate medical student, Memorial University [P]
- 2014-2015 Cassandra Hawco, Undergraduate medical student, Memorial University [P]
- 2013-2015 Malcolm Chang, Women's College Hospital, University of Toronto [J]
- 2013-2015 Susan Truong, Women's College Hospital, University of Toronto [J]
- 2013-2014 Robert Martin, Learning Institute, Department of Paediatrics, University of Toronto [P]
- 2013-2014 Jon Behich, Learning Institute, Department of Paediatrics, University of Toronto [P]
- 2013-2014 July Truong, Learning Institute, Department of Paediatrics, University of Toronto [P]
- 2012-2013 Robert Martin, Learning Institute, Department of Paediatrics, University of Toronto [P]

- 2009-2010 David Rojas, SickKids Learning Institute, Department of Paediatrics, University of Toronto [P]
- 2007-2008 Shreevalli Velauthan, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto. [P]
Topic: Collaborative feedback in acquisition of clinical skills. [P]
- 2005-2006 Megan Melnyk, Faculty of Medicine, University of Toronto.
Topic: Influence of simulation based practice on attentional resource sharing during performance of technical and non-technical clinical skills [P]
- 2005-2006 Mykola Khokhotva, Faculty of Medicine, University of Toronto.
Topic: Knowledge of performance error and learning of orthopaedic bone drilling [P]
- 2004-2005 Mark Porte, Faculty of Medicine, University of Toronto.
Topic: Self-directed use of computer-derived for the acquisition of technical surgical skills. [P]
- 2004-2005 Nathan Jowett, Faculty of Medicine, University of Toronto.
Topic: Self-directed use of video materials for the acquisition of technical surgical skills. [P]
- 2003-2004 David Gonzalez, Department of Kinesiology, University of Waterloo,
Topic: Utilization of sound in grasp control, [P]
- 2003-2004 Ryan Brydges, Department of Kinesiology, University of Waterloo, Topic: Integration of haptics and vision in the control of grasping movements [P]

5.1.b Clinical faculty

- 2015 – 2019 John Mireau, Department of Surgery, Northern Ontario School of Medicine, Ontario, Canada
- 2015 – 2017 Simon Ash, Western Health, Stephenville, Newfoundland and Labrador, Canada
- 2015 – 2017 Norciede Chesnel, Jestinian University Hospital, Cap Haitian, Haiti
- 2015 – 2017 Yvel Zephyr, Jestinian University Hospital, Cap Haitian, Haiti
- 2013 – 2015 Tia Renouf, Division of Emergency Medicine, Memorial University, St. John's Newfoundland and Labrador.
- 2013 – 2015 Michael Parsons, Division of Emergency Medicine, Memorial University, St. John's Newfoundland and Labrador.
- 2013 – 2015 Peter Rogers, Division of Emergency Medicine, Memorial University, St. John's Newfoundland and Labrador.
- 2013 – 2015 Karen Angus, Division of Emergency Medicine, Memorial University, St. John's Newfoundland and Labrador.
- 2013 – 2015 Sarah Mathiewson, Division of Emergency Medicine, Memorial University, St. John's Newfoundland and Labrador.
- 2015 – 2017 Terri Genge, School of Pharmacy, Memorial University, Newfoundland and Labrador
- 2015 – 2017 Tiffany Lee, School of Pharmacy, Memorial University, Newfoundland and Labrador
- 2013 – 2016 Brain Metcalf, Division of Emergency Medicine, Memorial University, Newfoundland and Labrador

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| 2013 – 2016 | Gillian Sheppard, Division of Emergency Medicine, Memorial University, Newfoundland and Labrador |
| 2009 – 2013 | Ma, I. Division of General Internal Medicine, Department of Medicine, University of British Columbia |
| 2008 – 2013 | Fahrat, W. Department of Pediatric Urology, Hospital for Sick Children |
| 2008 – 2013 | Safir, O. Department of Surgery, University of Toronto, Direct of Surgical Skills Centre, Mount Sinai Hospital |
| 2008 – 2013 | McCartney, C.J.L. Department of Anesthesia, Sunnybrook Health Sciences Centre |
| 2007 – 2013 | Awad, I. Department of Anesthesia, Sunnybrook Health Sciences Centre |
| 2006 – 2009 | Szumacher, E. Department of Radiation Oncology Toronto Sunnybrook Regional Cancer Centre |
| 2006 – 2008 | Wadley, V. Department of Orthopedics, University of Toronto |
| 2004 – 2007 | Sidhu, R. S. Department of Vascular Surgery, University of British Columbia |
| 2004 – 2010 | Backstein, D. Department of Surgery, University of Toronto |

5.2 Graduate Supervision

5.2.a Resident (Mandatory/self-initiated research project)

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|-------------|----------------------------------------------|
| 2018 – 2019 | Rebecca Law, Memorial University [P] |
| 2015 – 2017 | Aron Heurox, Memorial University [P] |
| 2013 – 2016 | Liam Fardy, Memorial University [J] |
| 2014 – 2016 | Cory Veldman, Memorial University [J] |
| 2014 – 2015 | Jordan Stone-McLean, Memorial University [P] |

5.2.b Masters

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021-present | Mnaymneh, Marvin, Faculty of Education, Ontario Tech University [J] |
| 2020-present | Buttu, Dania, Faculty of Health Science, Ontario Tech University [P] |
| 2020-present | Clarke, Krystina, Faculty of Health Science, Ontario Tech University [P] |
| 2020-present | Cope, Andrea, Faculty of Health Science, Ontario Tech University [P] |
| 2020-present | Hollaender, Gabrielle, Computer Science, Ontario Tech University [J] |
| 2020-present | Wahab, Samira, Faculty of Health Science, Ontario Tech University [P] |
| 2020-present | Weber, Timothy Faculty of Health Science, Ontario Tech University [P] |
| 2019-present | Pamela Mutombo, Faculty of Health Sciences, Ontario Tech University [P] Topic: Innovation in Elderly Care: Using Disruptive Technologies to Turn Restraining Devices into Assistive Technologies |
| 2014 – 2017 | Reuben Addison, Human Kinetics and Recreation, Memorial University Topic: Effects of moving environments on the acquisition of clinical skills. [J] |
| 2012 – 2014 | Aaron Knox, MEd Ontario Institute for Studies in Education, University of Toronto. Topic: Serious Gaming in Motor Learning [P] |
| 2010 – 2014 | Ambrose Lau, MEd Ontario Institute for Studies in Education, University of Toronto. Topic: Acquisition and retention of technical skills [J] |

- 2010 –2014 Jeffrey Cheung, MSc Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: Educational Networking the role of motivation. [P]
- 2010 – 2011 Bryce Weber, MSc Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: Educational Networking. [P]
- 2009 – 2012 Fuad Moussa, MEd Ontario Institute for Studies in Education, University of Toronto.
Topic: S. [P]
- 2009 – 2012 Ereny Bassilious, MEd Ontario Institute for Studies in Education, University of Toronto,
Topic: Gaming technology for paediatric patient education. [P]
- 2009 – 2011 Jonathan Diamond, Faculty of Physical Education and Health, University of Toronto,
Topic: Motor learning. [A]
- 2008 – 2010 Jennifer Yoon, Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: Simulation of model WHO. [P]
- 2006 – 2008 Tania Tajirian, Masters in International Health, Institute of Tropical Medicine, TropEd partner institutions in Europe, Charité Universitätsmedizin, Free University Berlin, Humboldt University Berlin,
Topic: Simulation based education in Sub Saharan Africa [P]
- 2008 – 2009 Joanne McGregor, MSc Occupational Therapy and Occupational Science, Faculty of Medicine, University of Toronto.
Topic: Collaborative learning in rehabilitation [P]
- 2006 – 2009 Mana Mirfendereski, Department of Endodontics, Faculty of Dentistry, University of Toronto
Topic: Simulation in dentistry: Endodontics [J]
- 2006 – 2008 Allison Kurahashi , Med Ontario Institute for Studies in Education, University of Toronto
Topic: Attentional resources sharing and simulation[P]
- 2006 – 2008 Marku Nousiainen, Ontario Institute for Studies in Education, University of Toronto
Topic: Comparison of expert instruction and computer-based video training in teaching fundamental surgical skills to medical students.
- 2006 – 2009 Oleg Safir, Med Ontario Institute for Studies in Education, University of Toronto [P]
Topic: Feedback in learning of clinical skills [J]
- 2006 – 2009 Kirk Klavor, Med Ontario Institute for Studies in Education, University of Toronto, University of Western Ontario, London
Topic: Simulation based education for medical students: Program development [P]
- 2005 – 2007 Wade Gofton, Med Ontario Institute for Studies in Education, University of Toronto, University of Western Ontario, London
Topic: Use of assistive devices during learning of surgical tasks [P]

- 2004 – 2006 Carol Anne Moulton, Med Ontario Institute for Studies in Education, University of Toronto
Topic: Massed vs. Distributed practice in simulation [P]
- 2004 – 2006 Molly Zirckle, Med Ontario Institute for Studies in Education, University of Toronto
Topic: Virtual reality in ENT education[P]
- 2004 – 2006 Ryan Brydges, Institute of Medical Science, University of Toronto
Topic: Visuo-motor integration in precision movements [P]
- 2004 – 2005 George Xeroulis, Med Ontario Institute for Studies in Education, University of Toronto
Topic: Feedback in clinical skills acquisition [P]
- 2003 – 2005 Jason Park, Med Ontario Institute for Studies in Education, University of Toronto
Topic: Computer based assessment of laparoscopic skills [J]
- 2003 – 2005 Sarah Woodworth, Med Ontario Institute for Studies in Education, University of Toronto
Topic: Computer based assessments in neuro-surgical skills [J]
- 2003 – 2004 Monate Praamsma , Department of Kinesiology, University of Waterloo,
Topic: Use of sound in guidance of orthopaedic skills [J]
- 2003 – 2004 Mike Whitelaw, Department of Kinesiology, University of Waterloo
Topic: Forgetting of motor skills [J]

5.2.c Doctorate

- 2021 – present Momand, Beheshta, Faculty of Health Science, Ontario Tech University [P]
- 2020 – present Barth, Brenda, Faculty of Health Science, Ontario Tech University [P]
- 2018 – present Torres, Andrei, Computer Science, Ontario Tech University [J]
- 2019 – present Brianna Grant, Faculty of Health Sciences, Ontario Tech University [J]
Topic: Looking for a Neuro-Signature of Immersion in Simulation
- 2015 – 2019 Dustin Sivey, Faculty of Medicine, Community Health, Memorial University
Topic: Health and combat sports in Aboriginal communities [P]
- 2012 – 2017 Kinga Elias, Department of Kinesiology, McMaster University.
Topic: Effects of socio-comparative feedback on motor learning: Applications to medical education [J]
- 2012 – 2017 David Rojas, Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: The utility of collaborative learning environments in preparation for physical practice [P]
- 2008 – 2017 Celina Da Silva, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto
Topic: Use of simulation to train conflict resolution skills [P]
- 2010 - 2015 Faizal Haji, Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: Virtual reality in neurosurgical training: Instructional design perspective [P]

- 2009 – 2010 Marie-Paule Morin, University of Montreal (withdrew from the program due to maternal leave)
Topic: Patient Partner Program in Paediatrics
- 2008 – 2010 June MacDonald-Jenkins, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto
Topic: Inquiry based education [P]
- 2008 – 2009 Michelle Hogan, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto (withdrew from the program)
Topic: Games for Health: Community Nursing [P]
- 2006 – 2009 Ryan Brydges, Institute of Medical Science, Faculty of Medicine, University of Toronto.
Topic: Directed Self Regulated Learning in simulation [P]

5.2.d Post-doctoral

- 2019 – present: Jason Wang, PhD, Post Doctoral Fellow, Faculty of Health Sciences, Ontario Tech University
Topic: Development of an On-line Repository of Digital Assets for Simulation Based Education
- 2009 – 2011 Lawrence Grierson, PhD, Post Doctoral Fellow, Department of Occupational Rehabilitation and Occupational Science, Faculty of Medicine, University of Toronto and University Health Network
Topic: Collaborative learning in nursing [J]
- 2009 – 2011 Sayra M. Cristancho, PhD, Post Doctoral Fellow, Learning Institute, Hospital for Sick Children and University of Toronto
Topic: Assessment of performance [P]
- 2009 – 2010 Sara Promislow, PhD, Post Doctoral Fellow, Centre for Nursing Education Research, Lawrence S. Bloomberg Faculty of Nursing, University of Toronto
Topic: Use of virtual spaces in learning of clinical nursing skills [P]