

JEFFREY J.H. CHEUNG, PHD

Assistant Professor

Department of Medical Education
University of Illinois at Chicago College of Medicine
808 South Wood Street, M/C 591
Chicago, IL 60612-7309
+1 312-996-7528 | jcheung@uic.edu

EDUCATION

- 2014 – 2019 **PhD, Medical Science**
University of Toronto
Thesis: *Knowing How and Knowing Why: Integrating Conceptual Knowledge in Simulation-Based Procedural Skills Transfer to Support Learning Transfer*
Supervisors: Ryan Brydges and Carol-anne Moulton
- 2011 – 2014 **MSc, Medical Science with Program in Neuroscience**
University of Toronto
Thesis: *Preparing for Simulation-Based Education and Training Through Web Based Learning: The Role of Observational Practice and Educational Networking*
Supervisor: Adam Dubrowski
- 2005 – 2009 **HBSc, Neuroscience Specialist (High Distinction)**
University of Toronto
Thesis: *CREB overexpression does not affect baseline EEG or cortical arousal in transgenic mice*
Supervisor: Min Zhuo

PROFESSIONAL EXPERIENCE

- | | | |
|--------------|---------------------|---|
| 2020 – Pres. | Assistant Professor | Department of Medical Education, University of Illinois at Chicago College of Medicine, Chicago, Illinois |
| 2013 – 2019 | Research Fellow | The Wilson Centre for Research in Education, University of Toronto
Supervisors: Ryan Brydges (2015 – 2019)
Charlotte Ringsted (2014) |
| 2011 – 2019 | Research Fellow | Learning Institute Fellowship in Education, SickKids Learning Institute, The Hospital for Sick Children
Supervisors: Ryan Brydges (2015 – 2019)
Charlotte Ringsted (2014)
Adam Dubrowski (2011-2014) |
| 2013 – 2014 | Research Analyst I | Toronto General Hospital, University Health Network
Supervisor: Faizal A. Haji |
| 2013 – 2014 | Research Associate | Family Practice Health Team, Women's College Hospital
Supervisor: Cynthia Whitehead |

2013 Summer	Visiting Student	Institute of Movement and Neurosciences, Deutsche Sporthochschule Köln / German Sports University Cologne, Cologne, Germany (NSERC CGS - Michael Smith Foreign Study Supplement Program) Supervisor: Stefan Schneider
2009 – 2011	Research Assistant	Department of Anesthesia, Sunnybrook Health Sciences Centre Supervisor: Imad T. Awad
2008 – 2009	Thesis Student	Department of Human Biology, University of Toronto Supervisor: Min Zhuo
2008 Summer	Research Student	Centre for the Study of Pain, Department of Physiology, University of Toronto (Undergraduate Research Opportunity Program Award) Supervisor: Min Zhuo
2007 Summer	Research Assistant	Neuropharmacology and Behaviour Lab, Department of Psychology, University of Toronto Supervisor: John Yeomans
2006 – 2007	Research Assistant	Language and Cognition Lab, Department of Psychology, University of Toronto Supervisor: Henrietta Lempert

HONOURS AND AWARDS

2019	The Royal College of Physicians and Surgeons of Canada Simulation Summit 2019 - Emerging Investigator Award (National)
2019	The Wilson Centre Fellowship Travel Award (\$3,000 – Departmental)
2018	Choice Critics Award for excellence in peer-review for <i>Medical Education</i> (International)
2017 – 2019	The Currie Fellowship at The Wilson Centre (\$100,000 – International)
2017	The Copenhagen Academy for Medical Education and Simulation (CAMES) Award for Best Simulation Paper of the Year (€1,000 – International)
2017	The Richard Reznick Award for Outstanding Research Paper (\$200 – Local)
2014 – 2017	Natural Sciences and Engineering Research Council of Canada (NSERC) Alexander Graham Bell Canada Graduate Scholarship (CGS) – Doctoral Award (\$105,000 – National)
2016 – 2017	Institute of Medical Science, University of Toronto Open Fellowship Award (\$5,000 – Departmental)
2016 – 2017	School of Graduate Studies, Norman Stuart Robertson Fellowship (\$2,500 – Institutional)
2016 – 2017	School of Graduate Studies Conference Grant, University of Toronto (\$1,480 – Institutional)
2015	The Wilson Centre Fellowship Travel Award (\$3,000 – Departmental)
2014 – 2015	Institute of Medical Science Entrance Scholarship (\$5,000 – Departmental)
2013 – 2017	The Hospital for Sick Children Research Training Centre – Research Training Competition (Restrcomp) Award (\$80,000 – Institutional, Declined for NSERC)
2013 – 2014	Ontario Graduate Scholarship (\$15,000 – Provincial, Declined for NSERC)

2013 – 2014	NSERC CGS - Michael Smith Foreign Study Supplement Program (MSFSS) (\$6,000 – National)
2012 – 2013	Institute of Medical Science, University of Toronto Open Fellowship Award (\$5,000 – Departmental)
2012 – 2013	NSERC Alexander Graham Bell CGS – Master Award (\$17,500 – National)
2012 – 2013	Ontario Graduate Scholarship (\$15,000 – Provincial, Declined for NSERC)
2011 – 2012	Ontario Graduate Scholarship (\$15,000 – Provincial)
2011 – 2012	Institute of Medical Science Entrance Scholarship (\$5,000 – Departmental)
2008 – 2009	Undergraduate Research Opportunity Program Award (\$3,600 – National)
2008 – 2009	The William Neil Hanna Scholarship for outstanding promise in leadership and public service - Victoria College, University of Toronto (\$1,000 – Institutional)

PEER-REVIEWED GRANTS

2017 – 2019	Cheung JJH , Brydges R, Kulasegaram KM, Woods N, Moulton CA, & Devine L. <i>Competency by what design? Exploring the impact of integrated instruction on procedural skills transfer</i> . The Royal College of Physicians and Surgeons of Canada Medical Education Research Grant (\$34,140 – Co-PI).
2013 – 2014	Dempster L, Lam E, Burgess K, Posluns J, Fiege J, Hayes A, Dubrowski A, Cheung JJ , Kapralos B, McKay L. <i>Communication Skills Training: An Integrated On-Line and Classroom Design using Standardized Patients and Peer Role Playing</i> . Dentistry Enrichment Endowment Fund 2013, Faculty of Dentistry, University of Toronto (\$10,192 – Co-Investigator)
2012 – 2013	Whitehead C, Dubrowski A, McCarthy L, Carnahan H, Kapralos B, & Cheung JJ . <i>Assessing the interest, acceptability and usability of social networking to support a primary care patient-centred model for vulnerable older adults</i> . Academic Health Science Centre (AHSC) Alternative Funding Plan (AFP) Innovations Fund through the Ministry of Health and Long-Term Care (\$30,000 – Co-Investigator)

PUBLICATIONS

Peer-Reviewed Articles

1. **Cheung JJH**, Kulasegaram KM, Woods NN, & Brydges R. *Why content and cognition matter: integrating conceptual knowledge to support simulation-based procedural skills transfer*. Journal of General Internal Medicine. 2019. 34(6):969-977.
2. Castillo JM, Park YS, Harris I, **Cheung JJH**, Sood L, Clark MD, Kulasegaram K, Brydges R, Norman G, & Woods N. *A Critical Narrative Review of Transfer of Basic Science Knowledge in Health Professions*. Medical Education. 2018. 52(6): 592-604.
3. **Cheung JJH**, Kulasegaram KM, Woods NN, Moulton C, Ringsted CV, & Brydges R. *Knowing How and Knowing Why: testing the effect of instruction designed for cognitive integration on procedural skills transfer*. Advances in Health Sciences Education. 2018. 23(1): 61-74.
4. Phillips L, **Cheung JJH**, Whelan DB, Murnaghan ML, Chahal J, Theodoropoulos JS, Ogilvie-Harris D, Macniven I, & Dwyer T. *Validation of a Dry Model for Assessing the Performance of Arthroscopic Hip Labral Repair*. The American Journal of Sports Medicine. 2017 Jul;45(9):2125-2130.
5. Dwyer T, Schachar R, Leroux T, Petrera M, **Cheung JJH**, Greben R, Henry P, Ogilvie-Harris D, Theodoropoulos J, & Chahal J. *Performance assessment of arthroscopic rotator cuff repair and labral repair in a dry shoulder simulator*. Arthroscopy. 2017 Jul;33(7):1310-1318.

6. **Cheung JH**, Koh J, Brett C, Bägli DJ, Kapralos B, & Dubrowski A. Preparation with web-based observational practice improves efficiency of simulation-based mastery learning. Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare. 2016; 11(5):316-322.
7. Haji FA, **Cheung JH**, Woods NN, Regehr G, deRibaupierre S, & Dubrowski A. Thrive or overload? The effect of task complexity on novices' simulation-based learning. Medical Education. 2016.50(9):955-968.
8. Naismith LM, Haji FA, Sibbald M, **Cheung JH**, Tavares W, & Cavalcanti RB. Practicing what we preach: using Cognitive Load Theory for workshop design and evaluation. Perspectives on Medical Education. 2015;4(6):344-348.
9. Naismith LM, **Cheung JH**, Ringsted C, & Cavalcanti RB. Limitations of subjective cognitive load measures in simulation-based procedural training. Medical Education. 2015. 49(8), 805-814.
10. Schneider S, **Cheung JH**, Frick H, Krehan S, Micke F, Sauer M, Dalecki M, & Dern S. When Neuroscience Gets Wet and Hardcore: Neurocognitive markers obtained during whole body water immersion. Experimental Brain Research. 2014. 232(10), 3325-3331.
11. Chan MW, Truong S, **Cheung JH**, Whitehead C, & Dubrowski A. Do Not Forget the Oldest Old: Design Principles for the 80+. Studies in Health Technology and Informatics. 2014. 196: 48-50.
12. Nix CM, Margarido CB, Awad IT, Avila A, **Cheung JH**, Dubrowski A, & McCartney CJ. A Scoping Review of the Evidence for Teaching Ultrasound-Guided Regional Anesthesia. Regional Anesthesia and Pain Medicine. 2013. Nov-Dec;38(6):471-80.
13. Haji FA, Hoppe DJ, Morin MP, Giannoulakis K, Koh J, Rojas D, & **Cheung JH**. What we call what we do affects how we do it: A new nomenclature for simulation research in medical education. Advances in Health Sciences Education. 2014. May;19(2):273-280.
14. Martin R, Rojas D, **Cheung JH**, Weber B, Kapralos B, & Dubrowski A. Perceptions of the roles of social networking in simulation augmented medical education and training. Studies in Health Technology and Informatics. 2013. 184: 276-278.
15. Koh J, **Cheung JH**, Mackinnon K, Brett C, Bagli DJ, Kapralos B, & Dubrowski A. Web-Based Learning and Computer Supported Collaborative Learning for Psychomotor Skill Acquisition: Perspectives of Medical Undergraduate Students. Studies in Health Technology and Informatics. 2013. 184: 222-224.
16. **Cheung JH**, Koh, J, Mackinnon K, Brett C, Bagli DJ, Kapralos B, & Dubrowski A. The Use of Web-Based Learning for Simulation-Based Education and Training of Central Venous Catheterization in Novice Learners. Studies in Health Technology and Informatics. 2013. 184: 71-77.
17. Awad IT, **Cheung JH**, Al-Allaq Y, Conroy PH, & McCartney CJ. Low dose spinal bupivacaine for total knee arthroplasty facilitates PACU discharge – a randomized controlled trial. Canadian Journal of Anesthesia. 2013. March;60(3): 259-265.
18. Rojas D, **Cheung JH**, Weber B, Kapralos B, Carnahan H, Bägli DJ, & Dubrowski A. An Online Practice and Educational Networking System for Technical Skills: Learning Experience in Expert Facilitated vs. Independent Learning Communities. Studies in Health Technology and Informatics. 2012. 173: 393-397.

19. **Cheung JJH**, Rojas D, Weber B, Kapralos B, Carnahan H, & Dubrowski A. Evaluation of tensiometric assessment as a measure of skill degradation. Studies in Health Technology and Informatics. 2012. 173: 97-101.
20. **Cheung JJH**, Chen EW, Darani R, McCartney CJ, Dubrowski A, & Awad IT. The Creation of an Objective Assessment Tool for Ultrasound-Guided Regional Anesthesia Using the Delphi Method. Regional Anesthesia and Pain Medicine. 2012. May-Jun;37(3): 329-333.
21. **Cheung JJH**, Awad IT, Chen EW, Al-Allaq Y, Dubrowski A, & McCartney CJ. Acquisition of Technical Skills Ultrasound-Guided Regional Anesthesia Using a High Fidelity Simulator. Studies in Health Technology and Informatics. 2011. 163: 119-124.
22. Awad IT, Sinclair C, Chen EW, McCartney CJ, **Cheung JJH**, & Dubrowski A. Anesthesia Residents' Preference for Learning Interscalene Brachial Plexus Block (ISBPB): Traditional Winnie's Technique vs. Ultrasound-Guided Technique. Studies in Health Technology and Informatics. 2011. 163: 36-38.
23. McNaught A, Shastri U, Carmichael N, Awad IT, Columb M, **Cheung J**, Holtby RM, & McCartney CJ. Ultrasound reduces the minimum effective local anaesthetic volume compared to peripheral nerve stimulation for interscalene block (ISB). British Journal of Anaesthesia. 2011. 106(1): 124-130.

Peer-Reviewed Proceedings Articles

1. Rojas D, **Cheung JJ**, Cowan B, Kapralos B, & Dubrowski A. Serious games and virtual simulations debriefing using a social networking tool. Proceedings of the Computer Games Multimedia and Allied Technology (CGAT 2012) Conference. Bali, Indonesia, May 7-8, 2012.

Peer-Reviewed Letters to the Editor

1. **Cheung JJH**, & Kulasegaram KM. Letter to the Editor: Educational Blasphemy? Questioning the (W)holiness of Whole-Task Curricula. Medical Education. 2015. 49(10): 1049.
2. **Cheung JJH**, Awad IT, & Dubrowski A. Reply to Drs Wong and Barrington. Letter to the Editor: Objective Assessments – Leaving Room for Subjectivity. Regional Anesthesia and Pain Medicine. 2013 Jan-Feb;38(1): 69-70.

Invited Book Chapters:

1. **Cheung JJH**, Apramain T, & Brydges B. Starting Your Research Project: From Problem to Theory to Question. In: D. Nestle & M. Scerbo, editors, Healthcare Simulation Research: A Practical Guide. Springer International Publishing, 2019.
https://link.springer.com/chapter/10.1007/978-3-030-26837-4_4.
2. Naismith LM, **Cheung JJH**, Sibbald M, Tavares W, Cavalcanti RB, Haji FA, & Fraser K. Using cognitive load theory to optimize simulation design. In: R. Kyle & W. Bosseau Murray, editors, Clinical Simulation: Operations, Engineering and Management. Academic Press, 2nd Edition, 2019.

PRESENTATIONS

Peer-Reviewed Podium Presentations

1. **Cheung JJH**. Knowing How and Knowing Why: Integrating Conceptual Knowledge in Simulation-Based Procedural Skills Training to Support Learning Transfer. Doctoral Report. Association for Medical Education in Europe Conference 2020. Glasgow, Scotland. September 4-9, 2020. (Accepted)

2. **Cheung JJH**, Kulasegaram KM, Woods NN, & Brydges R. Material Concepts: A Randomized Trial Exploring Simulation as a Medium to Enhance Cognitive Integration and Transfer of Learning. Canadian Conference on Medical Education. Vancouver, British Columbia, Canada. April 18-21, 2020. (Accepted)
3. **Cheung JJH**, Kulasegaram KM, Woods NN, & Brydges R. Material Concepts: Integrating theory and practice during simulation-based training to support procedural skills retention and transfer. Royal College of Physicians and Surgeons of Canada Simulation Summit. Winnipeg, Manitoba, Canada. November 7-8, 2019.
4. **Cheung JJH**, Kulasegaram KM, Woods NN, & Brydges R. Material Concepts: Integrating theory and practice during simulation-based training to support procedural skills retention and transfer. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 18, 2019.
5. **Cheung JJH**. Material Concepts: Integrating theory and practice during simulation-based training to support procedural skills retention and transfer. Association for Medical Education in Europe Conference 2019. Vienna, Austria. August 24-28, 2019.
6. **Cheung JJH**. Conceptual Integration: Making Simulation More Than Playtime. The Brian D. Hodges Symposium. BMO Education & Conference Centre, Toronto Western Hospital, Toronto, Ontario, Canada. May 31, 2018.
7. **Cheung JJH**, Kulasegaram KM, Moulton CA, Woods NN, & Brydges R. Can trainees integrate knowledge on their own? Teaching the “How” and “Why” of procedural skills to support retention and transfer. Canadian Conference for Medical Education 2018. Halifax, Nova Scotia. April 28 – May 1, 2018.
8. **Cheung JJH**, Kulasegaram KM, Moulton CA, Woods NN, & Brydges R. Integrating the “How” and “Why” of procedural skills to support retention and transfer. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 13, 2017.
9. **Cheung JJH**, Kulasegaram KM, Moulton CA, Woods NN, & Brydges R. Can trainees integrate knowledge on their own? Teaching the how and why of procedural skills to support retention and transfer. Association for Medical Education in Europe 2017. Helsinki, Finland. August 26-30, 2017.
10. **Cheung JJH**, Kulasegaram KM, Nickell L. What goes up must come down? Longitudinal changes in measures of medical student empathy, patient-centredness, and tolerance of ambiguity. Canadian Conference for Medical Education 2017. Winnipeg, Canada. April 28 – May 2, 2017.
11. **Cheung JJH**, Kulasegaram KM, Moulton CA, Woods NN, Ringsted CV, & Brydges R. Knowing How and Knowing Why: Integrated conceptual knowledge facilitates the acquisition, retention, and transfer of simulation-based procedural skills. Association for Medical Education in Europe Conference 2016. Barcelona, Spain. August 27-31, 2016.
12. **Cheung JJH**, Kulasegaram KM, Nickell L. What goes up must come down? Longitudinal changes in measures of medical student empathy, patient-centredness, and tolerance of ambiguity. Association for Medical Education in Europe Conference 2016. Barcelona, Spain. August 27-31, 2016.
13. **Cheung JJH**, Kulasegaram KM, Moulton CA, Woods NN, Ringsted CV, & Brydges R. Knowing How and Knowing Why: Integration of Procedural and Conceptual Knowledge Facilitates Transfer of Simulation-Based Procedural Skills. Canadian Conference on Medical Education. Montreal, Quebec, Canada. April 16-19, 2016.
14. **Cheung JJH**, Brydges R, Kulasegaram KM, Moulton CA, Woods NN, & Ringsted CV. Knowing How and Knowing Why – Integration of Procedural and Conceptual Knowledge in Simulation-Based Procedural Skills Training. Royal College of Physicians and Surgeons of Canada – Simulation Summit, Banff, Alberta, Canada. November 25-26, 2015.

15. **Cheung JJH**, Brydges R, Kulasegaram KM, Moulton CA, Woods NN, & Ringsted CV. Knowing How and Knowing Why – Integration of Procedural and Conceptual Knowledge in Simulation-Based Procedural Skills Training. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 23, 2015.
16. **Cheung JJH**, Kulasegaram KM, Moulton CA, Ringsted CV, Woods NN, & Brydges R. Knowing How and Knowing Why – Integration of Procedural and Conceptual Knowledge in Simulation-Based Procedural Skills Training. Sunnybrook Health Sciences Centre Education Research Day 2015. Toronto, Ontario. October 16, 2015.
17. Naismith L, **Cheung JJH**, Ringsted CV & Cavalcanti RB. Resident Perceptions About the Sources of Cognitive Load During Simulation-Based Procedural Skills Training. Canadian Conference on Medical Education. Vancouver, British Columbia, Canada. April 25-28, 2015.
18. **Cheung JJH**, 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.
19. **Cheung JJH**, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & Dubrowski A. The Use of Web-based Observational Practice and Educational Networking Improves Simulation-Based Education and Training of Central Venous Catheterization: A Pilot Study. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 12, 2012.
20. Awad IT, **Cheung JJH**, Chen EW, Al-Allaq Y, Dubrowski A, & McCartney CJ. Acquisition of Technical Skills Ultrasound-Guided Regional Anesthesia Using a High Fidelity Simulator. Medicine Meets Virtual Reality 18. Newport Beach, California, USA. February 9-12, 2011.
21. **Cheung JJH**, Awad IT, Chen EW, Darani R, McCartney CJ, & Dubrowski A. Ultrasound-Guided Regional Anesthesia Checklist Creation Using the Delphi Technique. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 22, 2010.
22. **Cheung JJH**, Awad IT, Chen E, Al-Allaq Y, Dubrowski A, & McCartney CJ. The Role of Low Fidelity Ultrasound Training on Regional Anesthesia Skills Acquisition. University of Toronto SHIELDS Research Day 2010. Toronto, Ontario. May 7, 2010.

Peer-Reviewed Poster Presentations

1. **Cheung JJH**, Kulasegaram KM, Woods N, Moulton CA, & Brydges R. Can trainees integrate knowledge on their own? Teaching the How and Why of procedural skills to support retention and transfer. The Royal College of Physicians and Surgeons of Canada -Simulation Summit. Montreal, Quebec, Canada. November 1-2, 2017.
2. Ahmed A, **Cheung JJH**, Pirie J, & Dubrowski A. Testing the effectiveness of an internet mediated, video based, educational networking instrument in preparing trainees for simulation-based teaching of fundamental technical skills: a randomized control study. International Pediatric Simulation Symposia and Workshops 2016 Meeting. Glasgow, UK. May 9-11, 2016.
3. **Cheung JJH**, Kulasegaram KM, & Nickell L. Medical student coping styles influence measures of empathy, patient-centeredness, and tolerance of ambiguity. Association for Medical Education in Europe. Glasgow, UK. September 4-9, 2015.
4. Haji FA, **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. International Meeting of the Society for Simulation in Healthcare. New Orleans, Louisiana, USA. January 10-15, 2015.
5. **Cheung JJH**, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & 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.
6. Chan MW, Truong S, **Cheung JJH**, Hum S, Kapralos B, Whitehead C, & Dubrowski A. Do Not Forget the Oldest Old: Design Principles for the 80+. Medicine Meets Virtual Reality 21, Manhattan Beach, California, USA. February 19-22, 2014.

7. Truong S, Chan MW, **Cheung JJH**, Hum S, Kapralos B, Whitehead C, & Dubrowski A. Assessing the Interest in Using Social Networking from the Perspective of Older Adults Aged 80+. Medicine Meets Virtual Reality 21, Manhattan Beach, California, USA. February 19-22, 2014.
8. Chan MW, Truong S, **Cheung JJH**, Hum S, Kapralos B, Whitehead C, & Dubrowski A. Technical and Design Features to Better Enable the Use of Social Networking by Patients Over 80 in Primary Care. North American Primary Care Research Group Annual Meeting. Ottawa, Ontario. November 9-13, 2013.
9. Truong S, Chan MW, **Cheung JJH**, Hum S, Dubrowski A, & Whitehead C. Assessing the Interest and Potential in Using Social Networking in Primary Care to Decrease Social Isolation Among Patients Aged 80+. North American Primary Care Research Group Annual Meeting. Ottawa, Ontario, Canada. November 9-13, 2013.
10. **Cheung JJH**, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & Dubrowski A. Web-Based Learning and Computer Supported Collaborative Learning for Psychomotor Skill Acquisition: Perspectives of Medical Undergraduate Students. Medicine Meets Virtual Reality 20. San Diego, California, USA. February 20-23, 2013.
11. **Cheung JJH**, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & Dubrowski A. The Use of Web-based Observational Practice and Educational Networking Improves Simulation-Based Education and Training of Central Venous Catheterization: A Pilot Study. International Meeting for Simulation in Healthcare. Orlando, Florida, USA. January 26-30, 2013.
12. **Cheung JJH**, Koh J, MacKinnon K, Brett C, Bägli DJ, Kapralos B, & Dubrowski A. The Use of Web-Based Learning for Simulation-Based Education and Training of Central Venous Catheterization in Novice Learners. The Wilson Centre – Richard Reznick Research Day. Toronto, Ontario. October 12, 2012.
13. **Cheung JJH**, Rojas D, Weber B, Kapralos B, Carnahan H, & Dubrowski A. Evaluation of tensiometric assessment as a measure of skill degradation. Medicine Meets Virtual Reality 19. Newport Beach, California, USA. February 8-11, 2012.
14. **Cheung JJH**, Rojas D, Weber B, Kapralos B, Carnahan H, & Dubrowski A. Evaluation of tensiometric assessment as a measure of skill degradation. The Wilson Centre - Richard Reznick Research Day. Toronto, Ontario. October 28, 2011.
15. **Cheung JJH**, Al-Allaq Y, McCartney CJ, & Awad IT. PACU stay and nursing interventions in a low vs standard dose spinal isobaric bupivacaine in patients undergoing major knee surgery. University of Toronto SHIELDS Research Day 2011. Toronto, Ontario. May 6, 2011.
16. Awad IT, Sinclair CM, Chen EW, Choi S, McCartney CJ, **Cheung JJH** & Dubrowski A. Anesthesia Residents' Preference for Learning Interscalene Brachial Plexus Block (ISBPB): Traditional Winnie's Technique vs. Ultrasound-Guided Technique. Medicine Meets Virtual Reality 18. Newport Beach, California, USA. February 9-12, 2010.
17. **Cheung JJH**, Awad IT, Al-Allaq Y, Chen EW, Darani R, McCartney CJ, & Dubrowski A. Acquisition of Technical Skills In Ultrasound-Guided Regional Anesthesia Using a High-Fidelity Simulator. The Wilson Centre - Richard Reznick Research Day. Toronto, Ontario. October 22, 2010.
18. **Cheung JJH**, Awad IT, Chen EW, Darani R, McCartney CJ, & Dubrowski A. Ultrasound-Guided Regional Anesthesia Checklist Creation Using the Delphi Technique. American Society of Anesthesiologists Meeting. San Diego, California, USA. October 16-20, 2010.
19. **Cheung JJH**, Awad IT, Chen EW, Al-Allaq Y, & Dubrowski A. The Role of Low Fidelity Ultrasound Training on Regional Anesthesia Skills Acquisition. American Society of Anesthesiologists Annual Meeting. San Diego, California, USA. October 16-20, 2010.
20. **Cheung JJH**, Awad IT, Chen EW, Darani R, McCartney CJ, & Dubrowski A. Ultrasound-Guided Regional Anesthesia Checklist Creation Using the Delphi Technique. University of Toronto SHIELDS Research Day 2010. Toronto, Ontario. May 7, 2010.

Invited Presentations

1. **Cheung JJH.** Material Concepts: Integrating Theory and Practice to Support Simulation-Based Procedural Skills Transfer. MaxSIM Health P.E.E.R. Speaker Series, OntarioTech University, Oshawa, Canada. December 9, 2019.
2. **Cheung JJH.** The Virtues of (In)fidelity: Realigning simulation instructional design with the transfer of learning. McMaster Faculty of Health Sciences Education Research, Innovation and Theory (MERIT) Rounds, McMaster University, Ontario, Canada. November 19, 2019.
3. **Cheung JJH.** Material Concepts: Reimagining Simulation with Cognitive Integration. Department of Medical Education, University of Illinois at Chicago, Chicago, Illinois, USA. February 13, 2019
4. **Cheung JJH.** “A demonstration of how simulation can be used to study cognitive psychology”. Applied Education Research Operatives (AERO) Open House, St. Michael’s Hospital. Toronto, Ontario, Canada. November 15, 2018.
5. **Cheung JJH.** Conceptual Integration: Making Simulation More Than Playtime. Centre for Faculty Development, Education Research Community at St. Michael’s Hospital. University of Toronto, Li Ka Shing Knowledge Institute, Toronto, Ontario, Canada. March 19, 2017.
6. **Cheung JJH.** Integrating the How and Why of Simulation-Based Procedural Skills to Support Transfer. Wilson Centre Research Rounds, Toronto General Hospital, Toronto, Ontario. October 16, 2017.
7. **Cheung JJH.** Conceptual Integration: Making Simulation More Than Playtime. Center for Health Sciences Education (CESU) Aarhus University, Aarhus, Denmark. September 5, 2017.
8. **Cheung JJH.** Conceptual Integration: Making Simulation More Than Playtime. Copenhagen Academy for Medical Education and Simulation (CAMES) Rigshospitalet, Copenhagen, Denmark. September 4, 2017.
9. **Cheung JJH.** Conceptual Integration: Making Simulation More Than Playtime. Copenhagen Academy for Medical Education and Simulation (CAMES) Herlev, Copenhagen, Denmark. September 1, 2017.
10. **Cheung JJH.** Learning theories to guide program development and evaluation. Department of Psychiatry, Toronto General Hospital. May 26, 2014.
11. **Cheung JJH.** Cognitive Load Theory and Instructional Design for Simulation-Based Medical Education. SickKids Medical Education Research Scholarship Rounds. March 3, 2014.

Other Presentations

1. **Cheung JJH.** Beyond Fidelity and Realism: Reimagining Simulation Instructional Design to Support Knowledge Integration and Skills Transfer. Rogano Meeting 2019. Vienna, Austria, August 23-24, 2019.
2. **Cheung JJH.** Optimizing Learning with Cognitive Load Theory. University of Illinois at Chicago, Chicago, Illinois, USA. February 13, 2019
3. **Cheung JJH.** Knowing How and Knowing Why – Providing context through the integration of content? Rogano Meeting 2015. Glasgow, UK, September 4, 2015.
4. **Cheung JJH,** 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.
5. Koh J, **Cheung JJH,** Rojas D, Kapralos B, & Dubrowski A. Observational Practice & Educational Networking for Healthcare Professionals. Booth Presentation. SIM-one Ontario Simulation Exposition 2012. Toronto, Ontario, Canada. December 5-7, 2012.

TEACHING

University Teaching and Faculty Development Sessions

1. Guest Speaker. “How to make the most of your Fellowship”. The Wilson Centre Fellowship Seminar Series. The Wilson Centre, Toronto General Hospital and University of Toronto. October 1, 2019.
2. Lecturer. “Quantitative Research Methods in Health Professions Education”. Education Scholars Program. Centre for Faculty Development, St. Michael’s Hospital, Toronto, Ontario, Canada. (2018 – Present).
3. Lecturer. “Best Practices in Teaching and Learning”. Education Scholars Program. Centre for Faculty Development, St. Michael’s Hospital, Toronto, Ontario, Canada. (2018 – Present).
4. Guest Speaker and Panelist. “Critical Approaches in Health Professions Education Research”. Overview of Methodologies for Health Professions Education Research (HAD6501H). Institute of Health Policy, Management and Evaluation, University of Toronto. November 6, 2018.
5. Guest Speaker and Panelist. “Student Wellness”. Essential Skills for Health Professions Education Research (HAD6500H). Institute of Health Policy, Management and Evaluation, University of Toronto. September, 26, 2018.
6. Guest Lecturer. “Challenging our Assumptions: Mastery Learning is the most effective form of simulation-based training in healthcare”. Special Topics in Higher Education: Simulation in the Health Professions (LHA1820H). Ontario Institute for Studies in Education, University of Toronto. January 19, 2017.
7. Guest Lecturer. “Is something always better than nothing? A critique of Simulation-Based Mastery Learning with Deliberate Practice”. Issues in Cognitive and Educational Psychology: Implications for Health Professional Education (LHA1813H). Ontario Institute for Studies in Education, University of Toronto. September 29, 2016.

Peer-Reviewed Conference Workshops

1. Naismith L, **Cheung JJH**, & Sibbald M. Optimizing learning with Cognitive Load Theory (CLT). The Royal College of Physicians and Surgeons of Canada - Simulation Summit. Ottawa, Ontario, Canada. September 28-29, 2018.
2. Naismith L, Fraser K, **Cheung JJH**, & Sibbald M. Optimizing learning with Cognitive Load Theory (CLT). The Royal College of Physicians and Surgeons of Canada - Simulation Summit. Montreal, QC, Canada. November 1-2, 2017.
3. Brydges R, **Cheung JJH**, Kirou-Mauro A, Andersen SAW, Thinggaard E, & Konge L. Should I trust my learners to train independently? Designing and optimizing healthcare simulation training for self-regulated learning. Association for Medical Education in Europe 2017. Helsinki, Finland. August 26-30, 2017.
4. Naismith L, Haji FA, **Cheung JJH**, Sibbald M, & Cavalcanti RB. How to apply cognitive load theory to simulation research and practice. Royal College of Physicians and Surgeons of Canada – Simulation Summit, Banff, Alberta, Canada. November 24, 2015 (*Pre-conference Workshop*).
5. Manzone J, **Cheung JJH**, Haji FA, & Brydges R. Conceptualizing and Using Transfer in Simulation Research. Royal College of Physicians and Surgeons of Canada – Simulation Summit, Banff, Alberta, Canada. November 25-26, 2015.
6. Manzone J, **Cheung JJH**, Brydges R & Haji FA. Conceptualizing and Using Transfer in Simulation Research. Sunnybrook Education Conference, Toronto Ontario. October 16, 2015.
7. Manzone J, **Cheung JJH**, Haji FA, & Brydges R. Conceptualizing and Using Transfer in Simulation Research. International Meeting of the Society for Simulation in Healthcare. New Orleans, Louisiana, USA. January 10-15, 2015.

8. Haji FA, **Cheung JJH**, Naismith L, Sibbald M, Cavalcanti RB. How to apply cognitive load theory to simulation research and practice. SIM-one Ontario Simulation Exposition 2014. Toronto, Ontario. December 4-5, 2014.
9. Haji FA, **Cheung JJH**, Naismith L, Sibbald M, Cavalcanti RB. How to apply cognitive load theory to simulation research and practice in the health professions. Royal College of Physicians and Surgeons: Simulation Summit 2014. Toronto, Ontario. September 11-12, 2014.

ACADEMIC SERVICE

Community Governance and Curriculum Development

The Wilson Centre

2017	Member	Strategic Planning Committee
2016 – 2018	Member	Graduate Program Committee
2015	Member	The Bank of Montreal (BMO) Chair in Health Professions Education Search Committee
2015	Member	Director Search Committee
2013 – 2016	Student Rep	Fellowship Program Committee
2013 – 2016	Curriculum Developer	The Wilson Centre Fellowship Seminar Series
2013 – 2014	Member	Strategic Planning – Collaboration Subcommittee

University of Toronto

2018 – Present	Teaching Faculty	Education Scholars Program, Centre for Faculty Development
2018 – Present	Teaching Faculty	Stepping Stones Teacher Development Program, Centre for Faculty Development
2018 – Present	Member	Program Committee, Stepping Stones Teacher Development Program, Centre for Faculty Development
2014 – 2015	Member	Program Development Committee, Institute of Medical Science MHS Sc Program in Translational Research in Health Sciences
2011 – 2014	Administrator	The Learning Institute Fellowship in Education Fellowship Series, SickKids Learning Institute
2008 – 2009	President	Neuroscience Association for Undergraduate Students, Arts and Sciences Student Union

National

2015 – Present	Member	Early Career Medical Educators, Canadian Association for the study of Medical Education
----------------	--------	---

International

2018	Associate Editor	BMC Medical Education (Declined Invitation)
2018 – Present	Member	Technology-Enhanced Learning Committee Support Group, Association for Medical Education in Europe
2013 – 2015	Member	Society for Simulation in Healthcare

Peer-Review Activities

Grant Review:

Sunnybrook Health Sciences Centre – Alternate Funding Plan Grant Adjudication Committee, Ontario Ministry of Health and Long-Term Care (2018)

Education Research & Scholarship Grant Adjudication Panel, Sunnybrook Education Advisory Council, Sunnybrook Health Sciences Centre (2015 – 2019)

Journals (No. of Articles Reviewed):

Medical Education (20), Advances in Health Sciences Education (20), Perspectives on Medical Education (11), BMC Medical Education (4), Journal of Evaluation in Clinical Practice (3), Computers in Entertainment (2), British Journal of Surgery (2), PLOS One (1), Medical Teacher (1), Canadian Medical Education Journal (1), Teaching and Learning in Medicine (1), Anatomical Sciences Education (1)

Conference Abstract Review:

Simulation Summit (2017 – Present)

Canadian Conference for Medical Education (2015 – Present)

Education and Research Consultations

Survey Design and Statistician. Independent Student Analysis (ISA) of MD Program, University of Toronto. The Office of the Vice Dean, MD Program, University of Toronto, Toronto, ON. (2018 – 2019)

Research Mentorship. Developing an integrated postdoctoral-led teaching program in molecular biology laboratory techniques for graduate students. Princess Margaret Hospital, University Health Network, Toronto, ON. PI: Jason DeMelo. (2018 – Present).

Statistician. Toronto Academic Health Sciences Network Learner Engagement Survey. PI: Beverly Bulmer. Council of Academic Hospitals of Ontario, Toronto, ON. (2018 – 2019)

Research Mentorship. Developing an evaluation tool for web-based videos of clinical procedures. PI: Daniel London. Department of Orthopaedics. Mount Sinai Hospital, New York City, New York. (2018 – Present)

Statistician. Innovative Strategies for Transforming the Education of Physicians (ISTEP) Learning Environment Study (LES). PI: Leslie Nickell. The Office of the Vice Dean, MD Program, University of Toronto, Toronto, ON. (2014 – 2016)

Statistician. “Optimizing Practice for Learning Emergency Department Transthoracic Echocardiography Using an Ultrasound Simulator”. PIs: Dennis D. Cho & Jordan Chenkin. Funded by the Canadian Association of Emergency Physicians Grant. Sunnybrook Health Sciences Centre, Toronto, ON. (2016 - 2017)

Research Mentorship. Evaluating patient/family education tools for Sudden Death in Epilepsy. PI: Elizabeth Donner. The Hospital for Sick Children, Toronto, ON. (2017)

Statistician. “Developing a tool to assess forethought during massive blood transfusions”. PI: Maya Contreras. St. Michael’s Hospital, Toronto, ON. (2016)

Educational Design. Use of learning theories to guide program development and evaluation in psychiatric nursing. Curriculum Lead: Sarah Flogen. Department of Psychiatry, Toronto General Hospital. (2014).

Research Design and Statistical Analyses. Developing competency assessments in an orthopaedic sports medicine fellowship program. PI: Tim Dwyer. Department of Orthopaedics, Women’s College Hospital, Toronto, ON. (2014 – 2017).