Timothy D. Wilson, PhD

Associate Professor,
Schulich School of Medicine & Dentistry
Department of Anatomy and Cell Biology
Medical Sciences Building 490
Corps for Research of Instructional & Perceptual Technologies
The University of Western Ontario
London, Ontario, Canada, N6A 5C1
T: 519 661-2111 X81587 F: 519 661-3936
tim.wilson@uwo.ca www.anatatorium.com

Academic Appointments

Associate Professor 2013 - present	University of Western Ontario Schulich School of Medicine and Dentistry Department of Anatomy and Cell Biology
Adjunct Professor 2009 - present	University of Calgary Werklund School of Education
CERI Affiliate 2014-present	UWO, Schulich School of Medicine and Dentistry Centre for Educational Research and Innovation Researcher
CERI Researcher 2008 - 2014	UWO, Schulich School of Medicine and Dentistry Centre for Educational Research and Innovation Researcher
Assistant Professor 2007 - 2013	UWO, Schulich School of Medicine and Dentistry Department of Anatomy and Cell Biology
Assistant Professor 2005 - 2007	University of Western Ontario Faculty of Health Sciences

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Education

Fellowship	University of Pittsburgh, University of Pittsburgh Medical Center, Eye and Ear Institute, Otolaryngology and Neuroscience, Pittsburgh, Pennsylvania 01/04-07/05
Doctor of Philosophy	University of Western Ontario, Neurovascular Research Lab Kinesiology. London, Ontario, PhD (’04)
Master of Science	University of Western Ontario, Centre for Activity and Ageing Kinesiology, London, Ontario, MSc. (’99)
Bachelor of Science	University of Waterloo, Kinesiology Waterloo, Ontario, Hons B.Sc. (’97)

Awards and Honours

Major

2016 *Nominee for the American Association of Anatomy Board of Directors.*

2015 *Nominee for the Association of Canadian Faculties of Dentistry (ACFD) W.W. Wood Award for Excellence in Dental Education*

2013-14 *Nominee for the American Association of Anatomy Basmajian Award for Young Scientist and Educator*
• award recognizes health science faculty who are in the formative stages of their career (within 10 years of their highest earned degree at time of nomination), teach human or veterinary gross anatomy, can document excellence in their contribution to the teaching of gross anatomy, and have outstanding accomplishments in biomedical research or scholarship in education.

2012 **The Marilyn Robinson Teaching Award of Excellence**
• award for excellence in teaching was established at Western based on evidence of outstanding contributions in the area of classroom, laboratory, or clinical instruction
• have seven years or less of full-time university teaching experience at the time of their nomination

2006-07 The **Bank of Nova Scotia, The UWO Alumni Association and the University Students' Council Award of Excellence in Undergraduate Teaching**.
• award recognizes, celebrates and awards excellence in undergraduate teaching.

2006-07 The Faculty of Health Science Teaching Award of Excellence and Innovation
• recognition and reward for outstanding performances, by individuals or teams, in teaching and enhancing student learning.

2005-14 University of Western Ontario Student's Council (USC) Teaching Honour Roll
• awarded annually to Western's best instructors
• an instructor must receive a cumulative average of 6.3 or higher out of 7.0 for the first 14 questions on the UWO Instructor & Course Evaluations.

2007 Nominee for *Ontario's Best Lecturer* (TV Ontario Sponsored)
• Reached "Top 100" in Ontario, "Big Ideas" Best Lecturer Competition 2007

Minor

2001 Dean's Award of Research Excellence, Western Research Forum

1999-00 Society of Graduate Students (SOGS) University Student Teaching Award of Excellence.

1999-00 Kinesiology Teaching Award, Top TA as deemed by Kinesiology student body.

1997-01 SOGS University Student Teaching Award of Excellence Nominee

Funding and Support

Funds Held

2016 Dental Research Opportunities Funding - $5000 for student funding (FA Sharkh- development of online anesthetic training tool)

2015 Dental Research Opportunities Funding - $5000 for student funding (J Vincent - development of online periodontal community information tool)

2013-15 Schulich School of Medicine and Dentistry Summer Research Training Programme *Enhancing the Learning Curve in Novice Laproscopists* T.D. Wilson(PI) Mark Dawidek (Meds 2016) ($4251)

2011-12 Schulich School of Medicine and Dentistry Instructional Innovation and Development Fund (IIDF) Studentship Grant: *CNN: Cranial Nuclei and Nerve Digital Demonstrator*, **T.D. Wilson(PI)** S. deRibaupierre) ($4500)

2011-12 Schulich School of Medicine and Dentistry Summer Research Training Programme *Development of a 3D Visual Workflow: From 3D videography to Student's Memory.* **T.D. Wilson(PI)** Manisha Mistry (Meds 2014) ($4251)

2010-11 Schulich School of Medicine and Dentistry Instructional Innovation and Development Fund (IIDF) Faculty Grant: *3D Stroke Model,* S.deRibaupierre(PI) **T.D. Wilson** ($3500)

2010-11 Schulich School of Medicine and Dentistry Instructional Innovation and Development Fund (IIDF) Studentship: *3D Stroke Model,* S.deRibaupierre(PI) **T.D. Wilson** ($4804)

2010-11 Ministry of Training Colleges and Universities Funding for Clinical Educational Aids, Devices, and Materials Grant. *Incorporation of Clickers in the Dental Classroom*, **T.D. Wilson(PI)** ($5470)

2010-11 Schulich Fellowship in Research Education: *Development of digital neurosurgical trainer for resident education,* **T.D. Wilson(PI)** S. deRibaupierre ($5000)

2009-10 Schulich Research Opportunities Program (SROP) Award: *A 3-dimensional stereoscopic model for teaching cranial nerve anatomy: development and evaluation,* **T.D. Wilson(PI),** Kevin Fung, Jeffery Yeung (Meds 2011) ($4750)

2008-09 Instructional Innovation and Development Fund Studentship Award. *3D Virtual Training of Neurosurgical Procedures - Epilepsy Surgical Training,* S. deRibaupierre(PI), **T.D. Wilson** ($4804)

2008-09 Teaching Support Centre Small Grant on Teaching, *Virtual anatomy lab in students hands: Is it the same as the gross lab experience?* **T.D. Wilson (PI),** R. Hopkins ($2475)

2008-09 Teaching Support Centre Small Grant on Teaching: *Introduction of a novel teaching paradigm for head and neck anatomy.* K. Fung(PI), **T.D. Wilson**, P. Haase, M. Johnson, ($2500)

2007-08 Instructional Innovation and Development Fund Studentship Grant: *Do Students Prefer Stereoscopic Lectures?* **T.D. Wilson(PI),** A. Clausner ($1750)

2007-08 Instructional Innovation and Development Fund Studentship Grant:

Development of Three Dimensional Larynx, **T.D. Wilson(Co-PI)** with A. Hu, K. Fung ($2500)

2006-07 Instructional Innovation and Development Fund Studentship Grant: *3D Reconstruction of the Human Body from MRI Scans,* **T.D. Wilson(Co-PI)** M. Johnson, ($2450)

I. Research and Scientific Contributions

*** indicates student supervision**

Manuscripts or Chapters Currently Under Peer-Review

1. Loftus, J., Jacobsen, M., **Wilson, T.D.** Learning and Assessment with Images: A view of Cognitive Load through the lens of cerebral blood flow. *Under Review British Journal of Educational Technology, (BJET-0261-Jul-2015-OMS.R2), (revisions submitted March'16)*

2. Allen L., **Wilson, T.D.** Evaluation of an Interactive Anatomical Three-Dimensional Eye Model. *Under Review British Journal of Educational Technology (BJET-0346 Sep-2015-OMS.R1), September 2015. (revisions submitted March'16)*

3. *Cui, D., **Wilson, T.D.**, Rockhold, R.W., Lehman, M.N., Lynch, J.C. Evaluation of the Effectiveness of 3D Vascular Stereoscopic Models in Anatomy Instruction for First Year Medical Student, Anatomical Sciences Education *(revisions submitted March'16)*

4. *Roach V.A., Frasier, G.M. Kryklywy, J., Mitchell, D. **Wilson, T.D.** Different Perspectives: Spatial ability influcences where individiduals look on a timed spatial test. Submitted to Anatomical Sciences Education April 2016, ASE-16-0064

5. Dawidek, M., Roach, V.A., Ott, M., **Wilson, T.D.** Evaluation of learning curves in novice laparoscopists incorporating direct visualization into simulation training program. Submitted to Journal of Surgical Education, May 2016.

Peer Reviewed Publications/ In Press

38. *Roach V.A., Frasier, G.M. Kryklywy, J., Mitchell, D. **Wilson, T.D.** Eye of the Beholder: Can patterns in eye movement reveal aptitudes for spatial reasoning? *DOI: 10.1002/ase.1583 , November 2015.*

37. *Cui, D., Lynch, J.C., Smith A.D. **Wilson, T.D.** Lehman, M.N. Stereoscopic vascular models of the head and neck: A computed tomography angiography visualization, Anatomical Sciences Education, 9(2) 179-185, 2016.

36. *Roth, J. **Wilson, T.D.**, Sandig, M. The development of a virtual 3D model of the renal corpuscle from serial histological sections for E-learning environments, Anatomical Sciences Education, 8(6) 574-83, 2015.

35. Burkhart, T. *Asa, B. Payne, M., Johnson, M., Dunning,C., **Wilson, T.D.** Anatomy of the proximal tibiofibular joint and interosseous membrane and their contributions to joint kinematics in below knee amputations, Journal of Anatomy, 226(3) 143-9, 2015

34. *Van Nuland, S., *Roach, V.A., **Wilson, T.D.,** Belliveau, D. Head to Head: The role of academic competition in undergraduate anatomical education. Anatomical Sciences Eductation 8(5), 404-412

33. *Allen, L.K., *Bhattacharyya, S., **Wilson, T.D.** Development of an interactive Anatomical Three-Dimensional Eye Model. accepted Anatomical Sciences Education, 8(3), 375-282, 2015.

32. *Martin, C.M., *Turgeon, J., Rice, C.L., Goela, A., **Wilson, T.D.** Three-Dimensional Measurement Approach for the Morphology of the Proximal Femur. Journal of Anatomy, 225(3): 358–366, 2014.

31. *Asa, B., Payne, M.W.C., **Wilson T.D.**, Dunning, C.E., Burkhart, T.A., *In vitro* biomechanical evaluation of fibular movement in below knee amputations, *Clinical Biomechanics*, 29(5):551-5, 2014.

30. Hibbert, K., Lingard, L. Vanstone, M., Kinsella, A.E. McKenzie, P. Pitman, A. & **Wilson, T.D.** The Quest for Effective Interdisciplinary Graduate Supervision: A critical narrative analysis. *Canadian Journal of Higher Education*, 44:2, 85-104, 2014.

29. *Nguyen, N., Mulla, A., Nelson, A, **Wilson, T.D.**, Visuospatial anatomy comprehension: The role of spatial visualization ability and problem solving strategies. 7(4): 280-288, 2014.

28. *Roach, V.A., *Mistry, M. **Wilson, T.D**., Spatial Visualization Ability and Laparoscopic Skills in Novice Learners: Evaluating Stereoscopic vs. Monoscopic Visualizations, *Anatomical Sciences Education* 7(4): 295-301, 2014.

27. *Tompkins R.P.R, Melling, J., **Wilson**, T.D., Bates, B.D., Shoemaker, J.K. Arrangement of sympathetic fibers within the human common peroneal nerve: Implications for microneurography. *Journal of Applied Physiology* ,115(10): 1553-61, 2013.

26. *Mistry, M., *Roach, V.A., **Wilson, T.D**., Application of stereoscopic visualization on surgical skill acquisition in novices. *Journal of Surgical Education*, 70(5): 563-70, 2013.

25. *Martin,C.M., *Roach,V.A., *Nguyen, N., Rice, C.L., **Wilson, T.D**., Comparison of 3D Reconstructive Technologies Used for Morphometric Research and the Translation of Knowledge Using a Decision Matrix, *Anatomical Sciences Education*,

6(6): 393-403, 2013.

24. *Massey, N.D., Galil, K.A., **Wilson, T.D.,** Determining Position of the Inferior Alveolar Nerve via Anatomical Dissection and Micro–Computed Tomography in Preparation for Dental Implants, *Journal of the Canadian Dental Association*, 79:d39, 2013, http://www.jcda.ca/uploads/d39/d39.pdf

23. *Pedersen, K. **Wilson, T.D**., de Ribaupierre, S. An Interactive Program to Conceptualize the Anatomy of the Internal Brainstem in 3D. *Studies in Health Technology and Informatics*. Vol. 184, 319-323, 2013.

22. *Yeung, J., Fung, K., **Wilson, T.D.** Prospective Evaluation of a Web-Based 3-Dimensional Cranial Nerve Simulation. *Journal of Otolaryngology Head and Neck Surgery*, 41(6):426-36, 2012.

21. de Ribaupierre, S. **Wilson, T.D.,** Construction of a 3-D anatomical model for teaching temporal lobectomy. *Computers in Biology and Medicine*. 42(6): 692-6. 2012.

20. *Brewer, D.N., **Wilson, T.D.,** Eagleson, R., de Ribaupierre, S., Teaching Neuroanatomy using a 3D visual reality Model. *Studies in Health Technology and Informatics*,173: 85-91, 2012.

19. *Monsour, M., Ivanova, T.D., **Wilson, T.D**., Garland, S.J. Influence of vestibular afferent input on common modulation of human soleus motor units during standing. *Motor Control*, 16(4): 466-79, 2012.

18. *Roach, V., Brandt, M.G., Moore, C.C., **Wilson, T.D**., Is three-dimensional videography the cutting edge of surgical skill acquisition? *Anatomical Sciences Education*, 5(3):138-45, 2012

17. *Nguyen, N., Nelson, A., **Wilson T.D.,** Computer Visualizations: Factors that Influence Spatial Anatomy Comprehension. *Anatomical Sciences Education*, 5(2):98-108, 2012.

16. *Hopkins, R., Regehr, G., **Wilson, T.D.**, Exploring the changing learning environment of the gross anatomy lab, *Academic Medicine*, 86(7):883-8. 2011

15. *Adams, C. **Wilson, T.D.,** Virtual Cerebral Ventricular System: An MR-based Three-Dimensional Computer Model, *Anatomical Sciences Education*, 4(6):340-7, 2011

14. *Yeung, J., Fung, K. **Wilson, TD.,** Development of a Computer-Assisted Cranial Nerve Simulation from the Visible Human Dataset. *Anatomical Sciences Education, 4*(2):92-7, 2011.

13. *Sergovich, A., Johnson, M., **Wilson, T.D.**, Explorable three-dimensional digital model of the female pelvis, pelvic contents, and perineum for anatomical education. *Anatomical Sciences Education*.;3(3):127-33, 2010

12. Hu, A., **Wilson T.D**., Ladak, H., Doyle, P., Fung, K Evaluation of a three-dimensional educational computer model of the larynx: voicing a new direction. *Journal of Otolaryngology Head Neck Surgery,* 39(3):315-22, 2010.

11. Chen, J.K., Glicksman, J.T., Haase, P., Johnson, M., **Wilson, T.D**., Fung, K., Introduction of a Novel Teaching Paradigm for Head and Neck Anatomy, *Journal of Otolaryngology-Head & Neck Surgery, 39(4), 349-55. 2010.*

10. *****Nguyen, N., **Wilson, T.D.**, A Head in Virtual Anatomy: Development of a Stereoscopic 3D Head and Neck Model, *Anatomical Sciences Education*, 2(6): 294-301, 2009.

9. Hu, A., **Wilson, T.D**., Ladak, H., Doyle, P., Fung, K., Development of a Three-Dimensional Educational Computer Model of the Larynx: Voicing a New Direction, *Archives of Otolaryngology – Head and Neck Surgery, 135(7):677-81, 2009.*

8. Yavorcik, K.J., Reighard, D.A., Misra, S.P., Cotter, L.A., Cass, S.P., **Wilson, T.D**., and Yates, B.J. Effects of postural changes and removal of vestibular inputs on blood flow to and from the hindlimb of conscious felines. *American Journal of Physiology (AJP): Regulatory, Integrative and Comparative Physiology*. 297(6): R1777–R1784, 2009

7. Lee, T.-K., Lois, J.H., Troupe, J.H., **Wilson, T.D**., and Yates, B.J., Transneuronal Tracing of Neural Pathways that Regulate Hindlimb Muscle Blood Flow, *AJP: Regulatory, Integrative and Comparative Physiology*, 292(4):R1532-R1541, 2007

6. **Wilson, T.D.,** Cotter, L.A., Draper, J.A., Misra, S.P., Rice, C.D., Cass, S.P., Yates. B. J., Vestibular inputs elicit patterned changes in limb blood flow in conscious cats. *Journal of Physiology*, 575.2 (2006) pp 671-684.

5. **Wilson, T.D.,** Cotter, L.A., Draper, J.A., Misra, S.P., Rice, C.D., Cass, S.P., Yates. B.J., Effects of Postural Changes and Removal of Vestibular Inputs on Blood Flow to the Head of Conscious Felines. *Journal of Applied Physiology*, 100(5):1475–1482, 2006.

4. **Wilson, T.D.**, Shoemaker JK, Kozak R, Lee TY, Gelb AW. Reflex-Mediated Reduction in Human Cerebral Blood Volume*, Journal of Cerebral Blood Flow and Metabolism,* 25(1):136-43, 2005.

3. Kimmerly, D.K. Tutungi, E., **Wilson, T.D.**, Gelb, A.W. Serrador, J.M. Hughson, R.L. Shoemaker, J.K. Circulating Norepinephrine and Cerebrovascular Control in Conscious Humans, *Journal of Clinical Physiology and Functional Imaging,* 23(6), 314-319, 2003.

2. **Wilson, T.D.**, Serrador, J.M., Shoemaker, J.K. Head position modifies cerebrovascular response to orthostatic stress, *Brain Research,* 961(2), 261-268, 2003

1. **Wilson, T.D.** Skeletal Muscle in Microgravity, *The Western Journal of Graduate Research*, 7(1), 27-35, 1998.

Books and Chapters

3. **Wilson, T. D.** (2015). *Role of Image and Cognitive Load in Anatomical Multimedia.* IN: Teaching Anatomy. Edited by L. K. Chan and W. Pawlina, Springer International Publishing: 237-246.

2. Yates, B.J., Kerman, I.A., Jian, B.J., and **Wilson, T.D.** *The vestibulo-autonomic system*. IN: Vertigo and Imbalance, Oxford Textbook in Clinical Neurology, edited by A. Bronstein. Oxford University Press, Oxford, 2013, pp. 49-62.

1. Yates, B.J. and **Wilson, T.D.** *Vestibulo-autonomic responses.* Encyclopedia of Neuroscience, Vol. 10, edited by L. R. Squire. Academic Press, Oxford, 2009, 133-138.

Non-Peer Reviewed Articles

1. Atkinson, A., **Wilson, T.D.**, Kidd, J., Virtual Education: Teaching and Learning in Second Life, *Society of Teaching and Learning in Higher Education Newsletter*, Fall Issue (50), 2008.

Invited Scientific Keynote or Plenary

25. The Clevland Clinic Educational Grand Rounds, Eye Tracking, A Window into Student Comprehension and Spatial Ability. Clevland OH, November 16, 2016.
24. Asia Pacific International Congress of Anatomists (APICA), Theory and application of cognitive load in electronic media, Pawlina, W., Wilson, T.D., Singapore, March 17-20, 2016.
23. Kinesiology BioScience Seminar, Peeking Behind the Learning Curtain, Western University, London October 5, 2015.
22. American Association of Anatomists, Invited Speaker in Educational Neuroscience: Towards the Science of LearningEducational Technology, Cerebral Blood Flow and Spatial Ability, Boston, MA, March 29, 2015.
21. University of British Columbia Okanagan, Faculty of Health and Social Development, Planned Happenstance and Graduate Degrees: Adventures in and around the Bench, Bike, and Biopsy, March 12, 2015, March 13, 2015, Kelowna, British Columbia.
20. University of British Columbia Okanagan, Faculty of Health and Social Development, Quantitative Physiological Exploration in STEMM Education: Looking beyond the correct answer, March 13, 2015, Kelowna, British Columbia.

19. American Dental Education Association, A joint presentation David Morton, Rena D'Souza, University of Utah: Start with the End in Mind: Dental Anatomy and the Flipped Classroom, Boston,Massachusetts, March 6, 2015.
18. University of Mississippi Medical Centre - Visiting Faculty Scholarship Exchange Speaker, 3D anatomy and the Potential Pitfalls of Cognitive Load. October 16, 2014. Jackson, Mississippi,
17. Teaching Professor Technology Keynote Speaker - The Making, Breaking, and Painstaking Role of Synapses in Learning, October 11, 2014, Denver Colorado
16. Multimedia Learning in the Online, Blended, the influence of the online Learning Objects on Learning. August 11-12, 2014, Millersville University, Millersville, PA.
16. Fall Perspectives on Teaching - Panel presenter with WNDER Educational Technology Group, August 27, 2014, London Ontario.
15. Human Anatomy and Physiology Society Invited Speaker and Representative of the American Association of Anatomists: Use, Misuse, and Disuse of Medical images in Undergraduate Human Anatomy Courses, May 25, 2014, Jacksonville FL.
14. American Association of Anatomists Invited Speaker: The effects of image on learning and vice versa. April 2013, Boston, MA.
13. Invited Speaker to University of Mississippi Medical College - Tales from the CRIPT: A view towards digital learning objects: Understanding When, Where, and How to "look", Department of Neurobiology and Anatomical Sciences, Jackson, Mississippi, February 5-7, 2013
12. Fanshawe College Culinary Division - Bringing Blended Learning Teaching to the Table, December 21, 2012.
11. Fanshawe College - The Un-Conference on Teaching and Learning - Experience with Blended Learning Techniques, November 20th, 2012
10. Tufts University, Cummings School of Veterinary Medicine, Keynote speaker at *Mini-Symposium on Teaching with Technology*, Getting Started with Blended Learning, North Grafton, MA., October 16th, 2012
9. Teaching Support Centre's S*pring Perspectives on Teaching*, *Panel Speaker.* Demonstration and Reflections towards a Blended Learning Environment, May 14, 2012
8. *Student Success Centre*, Keynote Speaker at *Share a Career Path Series*. The Long and Winding Road: Indirect and sometimes bumpy road to academic success. Gave interactive session and created video for potentially marginalized or low self-esteemed or under achieving graduate students and post-doctoral fellows. May 10, 2012
7. Diagnostic Imaging Roundtable Speaker. Does a picture say a 1000 words? The reality of the 3rd dimension, Mohawk College, May 10,2012 https://edseminars.apple.com/event/r/KW7WB-9hB-J6H-TDS6-8H640
6. *Discovery Days London Keynote Speaker.* Tale of Two Simulators: Different Paths to the Same End. May 7th, University of Western Ontario, 2010
5. *Tales from the CRIPT:* Digital Anatomy Development and Implications for Education. University of North Dakota, Feb 22/2010
4. *Schulich's Mini-Medical School*, Oct 2, 2008, The Body Shop: From Birth of an Idea to Burial in student's memory banks.University of Western Ontario

3. *Society of Graduate Students' Western Research Forum*, March 2008. Keynote speaker at Annual conference. "The Forrest Gump Approach to Interdisciplinary Endeavours" University of Western Ontario
2. *First Nations Camp:* "The Physiological Meaning of Dreams". Talk to summer campers at Camp Giiwhisaah. Manitoulin Island, August 10, 2007
1. *FHS March Break Open House*. Several hundred potential students visited the faculty for opening comments and pep-talk before they dispersed to their schools of interest within the faculty. March 2006.

Peer Reviewed Abstracts:

* **graduate student**
* *** undergraduate**

107. *V. Roach, G. Fraser, J. Kryklywy, D. Mitchell, **T.D. Wilson**. Guiding Low Spatial Ability Individuals through Visual Salience Cueing: The Dual Importance of Where and When to Look. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016. - **Winner of Best Poster of Post Doc/Doctoral Students** -
106. *K. Dillon, M. Johnson, I. Chan, B. **T.D. Wilson**, Kiaii Pre-operative Eligibility for Minimally Invasive Coronary Artery Bypass Grafting Using the Davinci Robot: An Examination of Anatomical Parameters Using Computed Tomography. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016 **- Top Graduate Student Poster -**
105. *J. Yang, A. Tassi, T.D. Wilson, Y. Hosein, K. Galil. Morphometric Characterization of Maxillary and Mandibular Interdental Spaces at the Mucogingival Junction: Implications for Safe Orthodontic Miniscrew Insertion. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016.
104. *D. Cui, **T.D. Wilson**, R.W. Rockhold, M.N. Lehman, J.C. Lynch. Stereoscopic (3D) Visualization Improves Medical Student Comprehension of Head and Neck Vascular Anatomy. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016.
103. *D. Brewer Deluce, **T.D. Wilson**, A.M. Owen Cognitive Function as Related to Cumulative Head Impact Exposure in Football: Effects of Position. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016.
102. *Gill, P., **Wilson, T.D.**, Willmore, K., Perinpanayagam, H., Galil, K.,Hemorrhage secondary to interforaminal implant surgery: anatomical considerations. Poster at the American Association of Anatomists San Diego, CA, April 1-6, 2016
101. Morton, D.A., Soffe, B.W., Ganesh, N., **Wilson, T.D.** Becoming the Riddler: Principles in Writing Effective Multiple-choice Questions, American Dental Education Association, 90 minute presentation, Denver, CO, March 11-15, 2016.
100. *Roach, V.A. **Wilson, T.D.** Eye Tracking reveals Behaviour and Attentional Differences in High and Low Spatial Ability Individuals, Annual Meeting of the Psychonomic Society - Chicago, IL, November 19-22, 2015

99 *Brewer, D.N., **Wilson, T.D.**, Owen, A.M. - Effects of Long term and acute contact sport participation on cognitive function in varsity athletes. The First International Conference on Paediatric Acquired Brain Injury. - Liverpool UK, Sept16-18, 2015

98. *V.A. Roach, J. Kryklywy, D. Mitchell and **T.D. Wilson.** - Knowing Your Limits: How a Time Constraint May Impact Spatial Reasoning, American Association of Anatomists (AAA) Boston, MA, March 28 - April 1, 2015

97. D. Caskenette, D.W. Laird, S. Penuela, **T. Wilson** and K. Willmore Phenotypic Analysis of Long Bones in Pannexin 3 Knockout Mice Using a Geometric Morphometric Approach.(AAA) Boston, MA, March 28 - April 1, 2015

96. * D.N. Brewer, **T.D. Wilson** and A.M. Owen - The Effects of Clinical, and Sub-clinical mTBI on Cognitive Function in Varsity Athletes. (AAA) Boston, MA, March 28 - April 1, 2015

95. *M.T. Dawidek, V.A. Roach and **T.D. Wilson** - The Evaluation of Learning Curves in Novice Laparoscopists: Incorporating Direct Visualization into the Simulation Training Program, (AAA) Boston, MA, March 28 - April 1, 2015

94. *Maini, A.K., Roach, V.A, Pautler, S, **Wilson, T.D.** Can stereoscopic technologies build better surgeons? The effects of stereoscopy and spatial visualization ability on laparoscopic performance in surgical residents. American Association of Anatomists (AAA), San Diego, CA, April 2014.

93. Roach, V.A., Nguyen, N., Krykylwy, J.,deRibaupierre, S., Eagleson, R., Mitchell, D. **Wilson, T.D.** Relationship between mental rotations ability, eye movement patterns, and spatial task performance. (AAA), San Diego, CA, April 2014.

92. *Ivey, D. **Wilson, T.D.,** Merrifield, P.,Shimizu, M. Galil, K. A study of the mandibular incisive nerve and possible causes of altered sensation following maxillofacial surgery. (AAA), San Diego, CA, April 2014.

91. **Wilson, T.D.** Blending the Old Fashioned Way, with People. Presentation at the Blended Learning Conference: Technologies and Pedagogies, Kings College Western University, November 1, 2013, London, Ontario.

90. Martin, J., McDayter, M. Meadows, K., Paulson, E., **Wilson, T.D.** Falflak, J. Exploring Hybrid Learning in Hybrid Communities of Learning. Panel discussion at the Blended Learning Conference: Technologies and Pedagogies, Kings College Western University, November 1, 2013, London, Ontario.

89. Dreon, O., and **Wilson, T.D**., Technology and Cognitive Load in the Blended Class Environment, The Teaching Professor Technology Conference, October 4-6, 2013, Atlanta, Georgia.

88. Armstrong, K.P., *Turgeon, J., **Wilson, T.D.,** E-learning, A 3D Learning Module of the Brachial Plexus Depicting Anatomy Relevant to Regional Anesthesia Can Be an Effective Educational Resource, American Society of Regional Anesthesia (ARSA) 2013 Annual Meeting of Regional Anesthesia and Acute Pain Medicine Meeting, Boston, MA, http://www.asra.com/display_spring_2013.php?id=16

87. **Wilson, T.D.,** The effects of image on learning and vice versa. American Association of Anatomy (AAA) 2013, Boston, MA. **(invited platform presentation)** http://www.anatomy.org/content/education-teaching-sessions

86. *Roach, V., Mistry, M. **Wilson, T.D.**, Stereo Laparoscopy: A Novel Approach to Resident Surgical Education, AAA 2013, Boston MA. ***(platform presentation educational award nominee)***

85. *Loftus, J., **Wilson, T.D**. Spatial ability and cognitive load demands during visual learning and testing: A transcranial Doppler ultrasound study. AAA 2013, Boston MA.
84. **Mistry, M., Roach, V., **Wilson, T.D**., Application of stereoscopic visualization on surgical skill acquisition in novices, AAA 2013, Boston MA. ***(platform presentation educational award nominee)***
83. *Asa, B., Burkhart, T., Payne, M., **Wilson, T.D.**, In vitro biomechanical evaluation of fibular movement in below knee amputations, AAA 2013, Boston MA.
82. *Van Nuland, S. Roach, V. **Wilson, T.D.**, Belliveau, D. Head to Head: The Role of Competition in Undergraduate Education, AAA 2013, Boston MA. ***(platform presentation educational award nominee)***
81. *Holterman Ten Hove, S. **Wilson, T.D**., Galil, K. Temporomandibular joint articular disc: Providing a structural scaffold for use in tissue bioengineering of replacement constructs, AAA 2013, Boston MA.
80. *Roth, J. **Wilson, T.D.**, Sandig, M. Development of a virtual 3D renal corpuscle for educational environments, AAA 2013, Boston MA.
79. *Martin, C., Roach, V. Nguyen, N. Rice, C. **Wilson, T.D**. Comparison of 3D Reconstructive Technologies used for Morphometric Research and the Translation of Knowledge using a Decision Matrix. AAA 2013, Boston MA.
78. *Brewer, D.N. & Wilson, T.D. The Power of People and Projection, Technology in Education Symposium, March 8th, 2013, London, ON.
77. Tan, S. Hu, A. **Wilson, T.**, Ladak, H. Haase, P., Fung, K. Role of computer generated 3D-visualization in laryngeal anatomy teaching for advanced learners. *Canadian Conference on Medical Education*, May 2012, Banff, Alberta.
76. *****Roach, V.A., Mistry, M., LeBel, M.E., **Wilson, T.D.**, 3-D Arthroscopy: A New Frontier in Surgical Visualization, *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.
75. *Martin, C., Rice, C., Goella, A., **Wilson, T.D**., Three dimensional orthopaedic morphometry of the femoral head of healthy individuals. *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.
74. *Nguyen, N., Nelson, A., **Wilson, T.D.** Problem solving strategies and the relationship between visualization ability and spatial anatomy task performance. *American Association of Anatomists (AAA)* platform and poster presentation, April 2012, San Diego CA. ***(platform presentation educational award nominee)***
73. *Kim, H. Johnson, M., **Wilson, T.D.**, The novel 'syncretion' approach to learning gross anatomy with clay models: Is it a plausible alternative for learning the muscles in the anterior forearm? *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.
72. *Turgeon, J.G., Armstrong, K. **Wilson, T.D**., User experience and the influence on the evaluation of information presentation in an online learning module. *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.
71. *Pedersen, K.L., deRibaupierre, S., **Wilson, T.D**., An Interactive 3D Model of the Cranial Nerve and Brainstem Nuclei for Enhanced Learning of Neuroanatomy. *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.

70. *Allen, L.K., Bhattacharyya, S., **Wilson, T.D.**, More than Meets the Eye: An Interactive 3D Model of the Eye for Enhanced Learning of the Oculomotor System. *American Association of Anatomists (AAA)* poster presentation, April 2012, San Diego CA.
69. *Kour, L., Cassidy, E., Roth, J. **Wilson, T.D.**, No 'I' in Anatomy: Group Cadaveric Dissection. *American Association of Anatomists (AAA)* platform presentation, April 2012, San Diego CA.
68. Vanstone, M., Hibbert, K., Pitman, A, Kinsella, A.E., McKenzie, P., **Wilson, T.D.**, Lingard, L. (2012) The Quest for Effective Interdisciplinary Graduate Supervision: Considerations for current students and future supervisors. Panel Presentation on Mentorship in Practice: Ensuring a Collaborative and Inspiring Partnership, *The Canadian Committee of Graduate Students in Education (CCGSE),* Canadian Society for Studies in Education (CSSE), Waterloo, ON May 27-30, 2012
67**.** Hibbert, K., Lingard, L. Vanstone, M., Kinsella, A.E. McKenzie, P. Pitman, A. & **Wilson, T.D.** (2012). The Quest for Effective Interdisciplinary Graduate Supervision: A critical narrative analysis. Presented at the *Education Research Day*, London, ON.
66**.** Hibbert, K.; Lingard, L., Kinsella, A. E.; McKenzie, P.; Pitman, A.;Vanstone, M.; **Wilson, T.D.,** Interdisciplinary Supervision and Professional Practice, *Education and Learning. Professions and Professional Learning in Troubling Times: Emerging Practices and Transgressive Knowledges Conference* May 9-11, 2012, at the University of Stirling, ,UK.
65. de Ribaupierre,S, **Brewer,D, Eagleson,R, and Wilson,T (2011) "The role of spatial abilities in learning neurosurgical procedures". The International Symposium on Pediatric Neurosurgery, Goa, India, Oct 16-20.
64. *Nguyen, N., Nelson, A., **Wilson, T.D.** Computer Visualizations: Factors that Influence Spatial Anatomy Comprehension, *Society for Neuroscience (SfN)*, Washington D.C. November 2011.
63. *Tompkins, R. Melling, J. Shoemaker, J.K., **Wilson, T.D**. An immunohistochemical study on the arrangement of sympathetic fibers within the human common fibular nerve. *International Society of Autonomic Neuroscience*, September 2011, Buzios, Brazil.
62. Lingard, L., Hibbert, K., Pitman, A., Kinsella, A.E., McKenzie, P., Vanstone, M. Masinire, A., **Wilson, T.D**. Identifying strengths and challenges in interdisciplinary graduate supervision. Poster session, *Canadian Association for Information Science*, Fredericton, N.B. June 2011
61. *****Palombella, A. Galil, K, **Wilson, T.D.**, A 3-dimensional morphology of the mandibular condyle in elderly patients using micro-CT: Implications in clinical dentistry. *American Association of Anatomists (AAA)*, Washington D.C. April 2011.
60. *Israel, E. A. Galil, K, **Wilson, T.D.**, An anatomical study of the alveolar process in the human maxilla and its relation to the maxillary sinus using μ-CT: to facilitate successful dental implants. *(AAA)*, Washington D.C. 2011.
59. *Roach V. **Wilson, T.D.** The Development and Evaluation of 3D Videography as a Surgical Training Tool. *(AAA)*, Washington D.C. April 2011.
58. *Raynor, C., **Wilson, T.D.** 3D Surface and Volumetric Analysis of Hip Morphometrics, *(AAA)*, Washington D.C. April 2011.

57. *Tompkins, R. Melling, J. Shoemaker, J.K., **Wilson, T.D.,** An immunohistochemical study on the arrangement of sympathetic fibers within the human common fibular nerve. *(AAA)*, Washington D.C. April 2011.
56. *Jun, A., Fung.K., **Wilson, T.D.,** Applying principles from the cognitive theory of multimedia learning to an existing online instructional tool of the cranial nerves. *(AAA)*, Washington D.C. April 2011. ***(platform presentation award nominee)***
55. **Brewer, D. **Wilson, T.D.,** Use of a Digital 3D Brain Model as an Intermediate Step in Learning Spatial Anatomy. *(AAA)*, Washington D.C. April 2011.
54. *Devlin, M. **Wilson, T.D.,** Interdisciplinary Media Study of Anatomical Education via Virtual Worlds. *(AAA)*, Washington D.C. April 2011.
53. de Ribaupierre, S., **Wilson, T.D.** Development of a New Teaching Tool for Residents: Stereoscopic 3D Model of a Surgical Procedure. Oral presentation at the 38th Annual Meeting of the *International Society for Pediatric Neurosurgery*, Jeju, Korea, November 2010
52. de Ribaupierre, S., Eagleson, R., **Brewer, D., **Wilson, T.D.** Ubiquitous Learning for Neuroanatomy, Presented (oral presentation) at the *Ubiquitous Learning International Conference 2010*, Vancouver,December 12th 2010
51. de Ribaupierre S., **Wilson T.D.** Development of a new teaching tool for residents: stereoscopic 3D model of a surgical procedure. *Child's Nervous System* (2010) 26: 1459.
50. *Roach V., **Wilson, T.D.,** Design and Implementation of a 3D Videographical Interface for Surgical Training, *Centre for Educational Research and Innovation, 2nd Annual Research Symposium*, Oct 2010, London, Ontario
49. *Loftus, J., Nguyen, N., **Wilson T.D**., Cognitive Load Theory: What's Missing? *Centre for Educational Research and Innovation, 2nd Annual Research Symposium*, Oct 2010, London, Ontario
48. *Jun, A., W**ilson, T.D.**, Applying principles of cognitive theory of multimedia learning to an online instructional tool of the cranial nerves. *Centre for Educational Research and Innovation, 2nd Annual Research Symposium*, Oct 2010, London, Ontario
47. *Palombella, A. Galil, K. **Wilson, T.D.,** A micro-CT study of the temproro-mandibular joint: a view for dental surgery, *Faculty of Dentistry Research Day*, Oct 2010, London, Ontario.
46. *Isreal, E., Galil, K., **Wilson, T.D**., A micro-CT study of the maxilla: a view for dental implants. *Faculty of Dentistry Research Day*, Oct 2010, London, Ontario.
45. Tan, S. Hu, A. **Wilson, T.D**., Haase, P., Fung, K. Role of computer generated 3D-visualization in laryngeal anatomy teaching for advanced learners: A prospective randomized study Presented at: *American Academy of Otolaryngology-Head and Neck Surgery Foundation - Annual Meeting 2010*; Sept 26-29; Boston MA.
44. **Wilson, T.D.**, Modern Anatomical Models in Classical Situations, *Canadian Conference on Medical Education, (CCME)* April 1-4, St. John's Newfoundland, 2010.
43. *Hopkins, R.M., Regher, G. & **Wilson, T.D.,** Taking a Bite out of the Lab Book: Stereoscopy in the Laboratory. *Canadian Conference on Medical Education, (CCME)* April 1-4, St. John's Newfoundland, 2010.

42. *Bhattacharyya, S., **Wilson, T.D**., Johnson, M., 3D-X: Development of a Web-based Cross-sectional Anatomy Learning Tool based on the Visible Human Male. *Canadian Conference on Medical Education, (CCME)* April 1-4, St. John's Newfoundland, 2010.
41. *Dorosh, K., Bhattacharyya, S., Johnson, M., **Wilson, T.D.**, Haase, P., Effectiveness of a web-based cross-sectional anatomy learning tool (3D-X) at improving students' ability to interpret CT Images. *Canadian Conference on Medical Education, (CCME)* April 1-4, St. John's Newfoundland, 2010.
40. *Massey, N.D., Galil, K.A.A., **Wilson, T.D.,** Determination of inferior alveolar nerve position via anatomical dissection and micro-CT: A view towards dental implants, *American Association of Anatomists (AAA)* FASEB, 2010, Anaheim
39. *Bhattacharyya, S., **Wilson, T.D.,** Johnson, M., 3D-X: Development of a Web-based Cross-sectional Anatomy Learning Tool based on the Visible Human Male, *(AAA)* FASEB, 2010, Anaheim
38. *Dorosh, K., Bhattacharyya, S., Johnson, M., **Wilson, T.D.**, Haase, P., Effectiveness of a web-based cross-sectional anatomy learning tool (3DX) at improving students' ability to interpret CT Images. *(AAA)* 2010, Anaheim.
37. *Hopkins, R.M., & **Wilson, T.D.**, Taking a Bite out of the Lab Book: Stereoscopy in the Laboratory. *Society for Teaching and Learning in Higher Education (STLHE)*; Fredericton, New Brunswick, June 17-19, 2009. (graduate poster competition finalist)
36. **Ding, Y., **Wilson T.D**. Online Anatomical Education in the Digital Age of the 21st Century: Borderless Electronic Anatomical Labs. *Interacting with Immersive Worlds Conference (IWIW)*; Brock University, St. Catherines, 2009.
35. **Ding, Y., **Wilson T.D.**, Teaching and Learning anatomy interactively online in the new digital age of 21st century, *(AAA)* 2009, New Orleans
34. *Lew, C., **Wilson, T.D.**, Reconstruction of the Cerebral Ventricular System in Stereoscopy, *(AAA)* 2009, New Orleans.
33. *Yim, H., **Wilson, T.D**., Akai, B. Development of a 4-dimensional model of the human heart with detection of suspected heart pathology. *(AAA)* 2009, New Orleans.
32. *Midgley, M., **Wilson, T.D**., Advanced multimedia applications for teaching anatomy: a comparison of software used to generate 3D anatomical models. *(AAA)* 2009, New Orleans
31. *Hopkins, R.M., **Wilson, T.D**., Taking a Bite out of the Lab Book: Stereoscopic Laboratory Models in Student's Hands. *(AAA)* 2009, New Orleans.
30. *Sergovich, A., Johnson, M., **Wilson, T.D.**, Development of 3D Stereoscopic Female Pelvis for Gross Anatomical Education. *(AAA)* 2009, New Orleans.
29. *Stock, T., **Wilson, T.D.**, Postivit, L., Co-localization of nodal in hypoxic regions of tumours as seen using confocal microscopy and stereoscopic 3D reconstruction methods. *(AAA)* 2009, New Orleans.
28. *Nguyen, N., Nelson, A., **Wilson, T.D.**, Determining optimal learning conditions for acquiring spatial 3D information using computer-based anatomical reconstructions. *(AAA)* 2009, New Orleans.
27. Misra, S.P., Yavorcik, K.J., Erwin, M., Cotter, L.A., Reighard, D.A., **Wilson, T.D**., Yates, B.J., Effects of postural changes on blood flow to and from the dependent limbs of conscious cats. *American Physiological Association (APS)* 2009, New Orleans.

26. Yavorcik, K.J., Erwin, M., Misra, S.P. Cotter, L.A., Reighard, D.A., **Wilson, T.D**., Cass,S.P., Yates, B.J. Vestibular effects on relative arterial blood flow to and venous return from the limbs during postural changes of conscious felines, *(APS)* 2009, New Orleans. ** (***nominee for graduate student poster competition)***
25. Nelson, A.J., Holowka, S._, Allan, G., Castle, M., Chhem, R., Cunningham, I., Ewanchyna, M., Friedman, S., Garvin., G., Gibson, G., Granton, P., Kogon, S., Longstaffe, F., Lywood, V., *Nguyen, N., Romanagnoli, C., Shaw, R., Trumpour, M., Wade, A.D., White, C.D., **Wilson, T.D.,** (2008). The ROM Mummy Project – 30+ years of progress. Poster presented to the *36th Annual Meeting of the Canadian Association for Physical Anthropologists*, Hamilton, ON, , 2008.
24. Hu, A. **Wilson, T.D**., Ladak, H., Haase, P., Fung, K. Three-Dimensional Educational Computer Model of the Larynx: Voicing a New Direction, *American Head and Neck Society Annual Meeting*, San Francisco, July, 2008.
23. *Clausner, A.B., **Wilson, T.D.** Potential Role of Stereographic Lectures in Anatomical Education, *(Society for Teaching and Learning in Higher Education)* Windsor, June 2008. ***(nominee graduate student poster competition)***
22. **Wilson, T.D.**, Kidd, J., Atkinson, M. Possibilities of Studying the role of Teaching and Learning is Virtual Worlds. *(STLHE) The Society for Teaching and Learning in Higher Education*, Windsor, 2008.
21. *Clausner, A., **Wilson, T.D.** Do students prefer stereoscopic lectures? Oral presentation at the *American Association of Anatomists (AAA)* 2008 San Diego.
    --> nominee for Langman Award for Graduate Students*<--
20. *Nguyen, N. and **Wilson**, **T.D.,** Preparation of stereoscopic head and neck model for educational purposes. Oral presentation (*AAA)* 2008, San Diego California.
19. *Boeckner, J., **Wilson, T.D.**, Stereoscopic Heart and Thorax for medical education. Oral presentation at *(AAA)* 2008, San Diego California.
18 **Ding, Y., **Wilson, T.D**., The next Dimension of Anatatorium: Anatomical possibilities through online virtual environments. Poster at presentation *AAA* 2008, San Diego California.
17. **Wilson, T.D.**, **Ding, Y., **Vandenbogaard, A.M., **Greven, N., Haase, P., Johnson. M. Anatatorium: A Stereoscopic Three-dimensional Laboratory Experience, *American Association of Anatomists.AAA* 2007.
16. *Deller, M., McAuliffe, J., Johnson, M., Weaver, B. **Wilson, T.D**., The Role of Simulated Motion on Visual Attention, *Vision Science Society (VSS)*, 2006
15. **Wilson, T.D.**, Cotter, L.A. Sabol, R.J., Misra, S.P., Rice, C.D., Cass, S.P., Yates, B.J., Consequences of Removal of Vestibular Inputs on Patterning of Blood Flow to the Limbs during Postural Alterations in Conscious Felines. ** Poster and Selected Oral Presentation at Symposia, *American Physiological Society (APS)* 2006.
14. **Wilson, T.D.**, Cotter, L.A. Sabol, R.J., Misra, S.P., Rice, C.D., Cass, S.P., Yates, B.J., Effects of Postural Changes and Removal of Vestibular Inputs on Carotid Blood Flow in Conscious Felines, Oral Presentation *Society for Neuroscience* 2006.
13. **Wilson, T.D.**, Yates, B.J., Regional blood flow alterations during natural vestibular stimulation in conscious felines, Poster Presentation *FASEB* 2005
12. Lee, T.Y., Kozak, R., **Wilson, T.D.**, Gelb, A., Shoemaker, J.K., Investigation by CT Perfusion of the sympathetic control of cerebral hemodynamics. *Radiological Society of North America, RSNA* 2003

11. **Wilson, T.D.,** Kozak, R., Lee, T.Y., Gelb, A.W., Shoemaker, J.K., Regional Cerebrovascular Responses to Sympathoexcitation: A Computed Tomography Study. *International Society of Cerebral Blood Flow and Metabolism*, *Brain 2003*
10. **Wilson, T.D.**, **Garnett, C., Shoemaker, J.K., The effects of exogenous CO_2 on cerebrovascular tone during simultaneous head up tilt and lower body negative pressure to presyncope. *FASEB 17(5) pg A873, 2003* .
9. Serrador, J.M., Wood, S.J., **Wilson, T.D**., Schlegel, T.T., Role of vestibular system in cerebrovascular response to parabolic flight., 6th Symposium on The Role of Vestibular Organs in the Exploration of Space. *Journal of Vestibular Research*, 11(3-5) 2001-2002
8. **Wilson, T.D**., **Mullin, P.T., Hughson, R.L., Shoemaker, J.K., Rapid Tilt For Assessment of Cerebral Blood Flow Autoregulation, *Medicine and Science in Sports and Exercise*, 33(5), *American College of Sports Medicine (ACSM)* 2001.
7. Tutungi, E., **Wilson, T.D**., Serrador, J.M. Tulppo, M., Gelb, A.W., Shoemaker, J.K., Effects of Noradrenaline and Phentolamine on Cerebral Vasculature in Conscious, Healthy Individuals. *Anaesthesia and Intensive Care,* 29(1), 2001
6. **Wilson, T.D**., Serrador, J.M., Shoemaker, J.K., Cerebral Blood Flow During Head Down Neck Flexion. *Physiologist*, 43(4), 285, 2000.
5. **Wilson, T.D.**, Paterson, D.H., Kowalchuk, J.M. Dissociation of Cardiac Output and Oxygen Uptake in Older Adults. *Medicine and Science in Sports and Exercise*, 32(5), *American College of Sports Medicine (ACSM)* 2000.
4. Kowalchuk, J.M., Scheuermann, B.W., Bell, C., **Wilson, T.D.**, Paterson, D.H., Cunningham D.A., O_2 uptake kinetics following the start of moderate intensity exercise are speeded by a prior bout of heavy intensity exercise in old, but not young, adults, *Experimental Physiology Proceedings*, 515P 76P, 1999.
3. **Wilson, T.D**., Bell, C.,. Moy, A.P., Kowalchuk, J.M., Cunningham, D.A., Paterson, D.H. Effect of distal arterial occlusion on proximal muscle O_2 and mean blood velocity, *Medicine and Science in Sports and Exercise*, 31(5), S334(1686), *American College of Sports Medicine (ACSM)* 1999.
2. Serrador, J.M., **Wilson, T.D.**, Powell, A.C., Bondar, R.L., Kowalchuk, J.M., Submaximal dynamic exercise does not impair cerebral autoregulation, *Medicine and Science in Sports and Exercise*, 31(5), S194(875), *ACSM* 1999.
1. Serrador, J.M., **Wilson T.D.**, Irving S., Picot, P.A., Kowlachuk, J.M., Bondar R.L., Cerebral blood flow changes during a ramped exercise to exhaustion, *Medicine and Science in Sports and Exercise*, 30(5), S104(588), *American College of Sports Medicine (ACSM)* 1998.

II. Teaching

Student Evaluations

Lifetime Effectiveness Rating: 6.34 /7 ± 0.4
90.5 % on course as a learning experience

Course Title / Number	Class Size	Mandatory (M), Elective (E), Graduate (G) Undergraduate (U/G) Professional (P)	Contact Hrs. Lecture/Lab (# teaching Assistants)	Overall Effectiveness Rating (7 point scale / % effectiveness)
2014-15 ACB 2221 (Kin) PT 9501 OT 9528	68 54 55	UGM GM GM	28/42 28 28 (4TA, 3 volunteers)	6.3±0.9 / 90% 6.2±0.9 / 89% 6.3±0.8 / 90%
2014-15 Dentistry 5185 Core Biology	54	PM	7/5 (3 TA)	6.7±0.6 / 96%
2014-15 Dentistry 5160 Systemic Anatomy	56	PM	11/5 (3 TA)	6.6±0.8 / 94%
2014 -15 ACB 9566/9666 Professionalism	12	GM	50	6.7±0.6 / 96%
2013-14 ACB 2221 (Kin) PT 9501 OT 9528	70 54 55	UGM GM GM	28/42 28 28 (4TA, 3 volunteers)	6.7±0.6 / 96% 5.9±1.0 / 84% 5.4±1.1 / 77%
2013-14 Dentistry 5185 Systemic Anatomy	56	PM	7/5 (3 TA)	6.7±0.7 / 96%
2013-14 Dentistry 5160 Systemic Anatomy	56	PM	11/5 (3 TA)	6.6±0.8 / 94%
2013 -14 ACB 9566/9666 Professionalism	14	GM	50	6.0±1.8 / 85%
2012-13 ACB 2221 (Kin) PT 9501 OT 9528	66 56 55	UGM GM GM	28/42 28 28 (4TA, 3 volunteers)	6.6±0.7 / 94% 6.6±0.5 / 94% 6.6±0.6 / 94%
2012-13 Dentistry 5160 Systemic Anatomy	56	PM	11/5 (3 TA)	6.8±0.5 / 97%
2012-13 Dentistry 5185 Core Biology	56	PM	7/5 (3 TA)	6.5±1 / 93%
2012 -13 ACB 9566 Professionalism	14	GM	50	6.6±0.5 / 94%
2011-12 ACB 2221 (Kin) PT 9501 OT 9528	66 51 57	UGM GM GM	28/42 28 28 (4TA, 3 volunteers)	6.6±0.6 / 94% 6.4±0.7 / 92% 6.3±0.7 / 90%
2011-12 Dentistry 5160 Systemic Anatomy	56	PM	11/5 (3 TA)	6.4±0.7 / 92%

2011-12 Dentistry 5185 Core Biology	56	PM	7/5 (3 TA)	6.3±1 / 90%
2011 -12 ACB 9566 Professionalism	9	GM	50	5.6±1.1 / 80%
2010-11 Dentistry 5160 Systemic Anatomy	56	PM	11/5 (3 TA)	6.7±0.8 / 96%
2010-11 Dentistry 5185 Core Biology	56	PM	7/5 (3 TA)	6.3±1.2 / 90%
2010 -11 ACB 9566 Professionalism	9	GM	50	5.8±1.1 / 83%
2009-10 ACB 9560	10	G(M)	2/2	Not evaluated
2009 – 10 ACB 9566	10	G(M)	50	6.5±0.7 / 93%
2009-10 ACB 501 (Kin) PT 9501 OT 9528	72 49 56	UG(M) G(M) G(M)	28/42 28 28	6.8±0.5 / 97% 6.9±0.3 / 99% 6.7±0.6 / 96%
2009-10 Dentistry 5160 Systemic Anatomy	56	P(M)	11/5 (3 TA)	6.6±0.8 / 94%
2009-10 Dentistry 5185 Core Biology	56	P(M)	5/4 (3 TA)	6.9±0.3 / 99%
2009-10 Anatomy Labs Medicine	123	P(M)	~ 40 One of 4 facilitators amongst 2-3 TA groups ≈ 12-18 students	Average of 5 modules 6.2±0.8 / 89%
2008-09 ACB 9566/9666 Professional Skills	12	M(G)	40	6.1±0.6 / 87%
2008-09 Dentistry 5100	60	P	17/78 (3 TA support)	6.3±0.9 / 90%
2008-09 ACB 501 (Kin) PT 9501 OT 0528a	131	M (U) M (G) M (G)	28/42 (2)	6.7±0.6 / 96% 6.1±0.8 / 87% 6.5±0.6 / 93%
2008-09 Medicine (Anatomy Lab Teaching)	~120	P	0/35	6.2±0.8 / 89%
2007-08 ACB 563	11	M(G)	15	not evaluated
2007-08 Dentistry 5100	60	P	17/78 (3 TA support)	6.8±0.5 / 97%
2007-08 Med 120 – Cardiovascular Lecture	148	P	1/40	6.0±1.0 / 86%

2007-08 ACB 501 (Kin) PT 9501 OT 0528a	131	M (U) M (G) M (G)	28/42 (2)	6.4±0.8 / 91% (only an aggregate score was determined this year)
2007-08 HS203/ KIN222 Intersession	28	M (UG)	33/6 (no TA support)	6.7±0.5 / 96%
2006-07 HS203/ KIN222B	183	M (UG)	56/78 (3 TA support)	6.9±0.4 / 99%
2006-07 ACB225 /HS273B	40	M(G) / E(UG)	56/14 (1 TA support)	5.5±1.2 /79%
2006-07 HS203/ KIN222A	376	M (UG)	56/112 (6 TA support)	6.8±0.5 / 97%
2006-07 HS233A	130	M(UG)	56/78 (3 TA support)	6.6±0.6 / 94%
2006-07 HS203/KIN222A Intersession	27	M (UG)	66/12 (no TA support)	6.8±0.5 / 97%
2005-06 HS203/KIN222B	130	M (UG)	56/78 (4 TA support)	6.6±0.9 / 94%
2005-06 HS203/KIN222A	424	M (UG)	56/154 (8 TA support)	6.2±1.1 / 89%
2005-06 HS233A	126	M (UG)	42/78 (3 TA support)	5.5±1.3 / 79%

Invited Presentations and Educational Workshops

20. Wilson, T.D. - Peeking behind the Learning Curtain: A view of Cognitive Load Student Success Conference - Cerritos College California September 24-25, 2015.

19. McLean, S., McLachlin, D., Wilson T.D. *A Walk on the Flip Side: Evolution of the Lecture*, American Association of Anatomists Regional Meeting, University of Western Ontario, London, ON, May 29-30, 2015.

18. McLean, S., McLachlin, D., Wilson T.D. *Approaches to Flipping your Classroom*, part of the Faculty Development Teaching Certificate at the Schulich School of Medicine & Dentistry, April 20. 2015.

17. Dreon, O., Shibley, I., and **Wilson, T.D.**, *Blended Learning Course Design: A Boot Camp for Instructors*
    • *October 9-10, 2014*, Denver, CO
    • Developed and conducted a 2 day conference for beginners learning to blend their respective disciplines
    http://www.teachingprofessor.com/workshop/blended-learning

16. Dreon, O., Shibley, I., and **Wilson, T.D.**, *The Evolution of Course Design: A Blended Boot Camp for Instructors*.
    • *September 17-19 , 2014*
    • College of Saint Mary and Creighton University Omaha NE
    • Developed and conducted a 3 day conference for k-12 teacher trainers, and new faculty/beginners learning to blend their respective disciplines

15. Dreon, O., and **Wilson, T.D.**, Multimedia Learning in the Online, Blended, and Face- to-Face Classroom: Designing and Selecting Learning Objects That Work,
    • August 13-14, 2014
    • School of Business, Fairmont State University, Fairmont, WV
    • Developed and conducted a 2 day workshop for beginners learning to blend their respective disciplines

14. Shibley, I., and **Wilson, T.D.**, A Leadership Workshop for *Blended Learning Course Design..... Now you are Blending what are the Next Steps?*
    • *June 3-4, 2014*
    • Instructional Technologies & Multimedia Services, Allegany College of Maryland, Cumberland MD
    • Developed and conducted a customized 2 day workshop for faculty who are not new to flipped and blended courses

13. Dreon, O., and **Wilson, T.D.**, Multimedia Learning in the Online, Blended, and Face- to-Face Classroom: Designing and Selecting Learning Objects That Work, *The Teaching Professor Conference*,
    • *May 30-June, 2014*, Boston, MA,

12. Dreon, O., Shibley, I., and **Wilson, T.D.**, *Blended Learning Course Design: A Boot Camp for Instructors*
• *March 13,14, 2014*, Atlanta GA
• Developed and conducted a 2 day conference for beginners learning to blend their respective disciplines

11. Dreon, O., Shibley, I., and **Wilson, T.D.**, *The Evolution of Course Design: A Blended Boot Camp for Instructors*.
• *January 12-13, 2014*
• College of Saint Mary, Omaha NE
• Developed and conducted a 2 day conference for beginners learning to blend their respective disciplines

10. Dreon, O., and **Wilson, T.D.**, Technology and Cognitive Load in the Blended Class Environment, *The Teaching Professor Technology Conference*,
• October 4-6, 2013, Atlanta, GA.
• Developed and conducted workshop to help instructors understand the cognitive processes underpinning the use of visualizations in their blended and flipped learning environments.
• attendees left understanding that no all visualizations will achieve the same learning outcome despite similar objectives.

9. Dreon, O., Shibley, I., and **Wilson, T.D.**, *Blended Learning Course Design: A Boot Camp for Instructors*
• Developed and conducted a 2 day conference for beginners learning to blend their respective disciplines, Madison, Wisconsin, July 29-30, 2013
•

8. Shibley, I., and **Wilson, T.D.**, A Leadership Workshop for *Blended Learning Course Design*
• *June 20-21, 2013* - Instructional Technologies & Multimedia Services, Allegany College of Maryland, Cumberland MD

7. Dreon, O., Shibley, I., and **Wilson, T.D.**, *Technology for Blended Courses*
• Developed and delivered a pre-conference workshop to The Teaching Professor Annual Conference, May 31-June 2, 2013, New Orleans, Louisiana

6. **Wilson, T.D.** *Lead by Blending our your courses - Competency will Follow*
• Developed and delivered a workshop outlining the strengths of a Blended Learning Environment as it pertains to increasing competency in the medical school learner
• Developed online free tools with the learning specialists at that site in order to integrate the local technology and personnel in the process.
Lake Erie College of Osteopathic Medicine, May 16th, 2013, Erie Pennsylvania.

5. Dreon, O., Shibley, I., and **Wilson, T.D.**, *Blended Learning Course Design: A Boot Camp for Instructors*

• Developed and conducted a 2 day conference for beginners learning to blend their respective disciplines
The Teaching Professor Workshop Series, Atlanta, Georgia, March 23-24, 2013

4. **Wilson, T.D**. *Blended Learning Approaches in the Practical Classroom*
• Developed and conducted an afternoon workshop on opportunities for blending in the collegiate and vocational classroom.
The Un-Conference, Fanshawe College, London, Ontario, November 20th, 2012.

3. **Wilson, T.D.** *Getting Started with Blended Learning*
• Developed and conducted a 1 day workshop blending scientific classrooms
Tufts University, Cummings School of Veterinary Medicine Mini-Symposium on Teaching and Learning with Technology, October 16th, 2012, North Grafton, MA
https://wikis.uit.tufts.edu/confluence/display/TLR/Events

2. Dreon, O., Shibley, I., and **Wilson, T.D.** *Blended Learning Course Design: A Bootcamp for Instructors*
• Developed and conducted a 2 day conference for instructors wishing to commence blending their classes
The Teaching Professor Workshop, September 29-30, 2012, Cambridge Massachusetts.
http://www.teachingprofessor.com/workshop/your-presenters
http://www.facultyfocus.com/workshop/

1. Shibley, I. and **Wilson T.D.** *Flipping the Classroom*
• Developed and conducted an online seminar with educators throughout North America discussing methods of integrating more meaningful technology into their classes
Magna Publications, August 23rd, 2012, Madison, Wisconsin.
http://www.magnapubs.com/catalog/the-flipped-classroom-rethinking-the-way-you-teach/

Teaching Materials and Resources Created

2. Shibley, I. and **Wilson T.D.** *Blended Learning in Modern Education*, Magna International (Sept 2011-ongoing)
• created 4 online instructional vignettes *"20 Minute Mentors"* highlighting methodologies surrounding Blended Learning approach to course development
    1. "What Is Blended Learning?"
    2. "Blended Learning: What Content Should Be Online?"
    3. "Should I Use ADDIE as a Design Map for My Blended Course?"
    4. "What Three Things Could I Do To Improve my Blended Course?"

1. Classroom Participation System Marieb's Anatomy and Physiology 5th Edition, 2006
• developed "clicker" questions and templates for textbook used by anatomy, physiology, and nursing students across North America

Invited Pedagogic Lectures, Panels, and Interviews

Invited Lectures

27. *Ready for University*: Since February 2006 2-3 times yearly, In collaboration with UWO Student Development Centre and Distance Education. "The Good, The Bad, and The Ugly Professor: Developing skills to deal with it."
26. Otolaryngology Undergraduate Medical Education Facilitator October 24th, 2009. London ON
25. CSTAR Collaborators Colloquium, CRIPT expose for CAE representatives. May 2009, London, ON.
24. *Seminar for the CIHR Strategic Training Program in Vascular Research, "*Vestibular System, I'd like you to meet Blood Flow: Evidence of an Existing Friendship". February 2008, 2009, 2010
23. *Conversations with Professors,* March 2009, Ask not what you can do for the ITRC but what the ITRC can do for you. http://www.itrc.uwo.ca/projectSpotlight.html
22. Indigenous Summer Camp – Mysteries of the Heart, it's Rate, and the Pressure it creates for itself. Manitoulin Island July 2009
21. *Digital Imaging and Biomedical Ontology*, University of Western Ontario, University Hospital, The Use of Technologies in Educational Sphere's: From CT to the Class. July, 2008.
20. London*Indigenous Services, Mini University Summer Camp*. 3 D Anatomy Lessons. July 2008
19. *Kinesiology Research Seminar*, *Vestibulo-Autonomic Interactions for Blood Pressure Regulation.* March 2008.
18. *Teaching Support Centre*, University of Western Ontario, *Navigating the Teaching Assistant Supervisor Relationship*. January 2008.
17. *Teaching Support Centre,* Management of Graduate Students and Teaching Assistants. University of Western Ontario, November 2007.
16. *Expanding Scholarship in Radiology Education*. A new Approach for Gross Anatomy Education? University of Western Ontario, August 24, 2007
15. *March Break Open House*: March 10, 2007:
14. *Community Hebrew Academy of Toronto*. October, 2007
13. *Anatatorium Tour of the Heart*: December 2006:.
12. *Keynote speaker at Anatatorium's FHS Fall Preview Day*: November 18, 2006.
11. Speaker for *Choose Your Own Adventure*: November 2006:
10. *Teaching Support Centre* profiled lectures on undergraduate teaching excellence. October 2006.
9. Community Hebrew Academy of Toronto,. October, 2006
8. *Open Doors London*: September 2006.
7. *Teaching Support Centre's Orientation for New Faculty,* September 2006.
6. *First Nations Services, Student Development Centre.* August 2006.
5. *Anatatorium Tour for Goodlife Fitness Canada*. August 15,2006.
4. *New Faculty Orientation: Veteran New Faculty Perspectives*: August 2006.
3. *Anatatorium - Christie Digital* exposé of Technology in the Classroom. March 2006.

2. *Interprofessional Group* Keynote address. December 2005 (C. Herbert, C. Gibson. and two medical student volunteers)
1. *Teaching Support Centre's* Academic Job Search Panel. November 2005.

Panels

2. *Lawson Health Research Day, Judging Committee,* Reviewed student posters in the Musculoskeletal Division, March 20, 2012

1. *Western Green Awards 2010 Selection Committee,* Reviewed nomination packages and came to a decision regarding the top two applicants.

Trainee Mentorship and Supervision

Supervision and Co-supervision

PhD (5 lifetime)
In Progress (1)

09/*13 - ongoing* Danielle Brewer - The Effects of Sub-Concussion on Student Cognition. The Effects of Cumulative minor head impacts and Exercise.
- co-supervision with Adrian Owen PhD Brain and Mind Institute

Completed (4)

09/11 - 01/16 Victoria Roach - Visuospatial Perception, Spatial Ability, and Eye Behaviour
- developed eye-tracking protocols to examine learner eye behaviour in spatial testing
- described differing behaviours between low and high spatial ability individuals thus perceptual underpinnings precede behaviour and thus affect test scores.

09/09 - 08/14 Jay Loftus (Doctorate of Education - University of Calgary) Cerebral Hemodynamic responses to learning with complex images.
• co-supervision with Michele Jacobsen PhD Cognitive Psychology University of Calgary
• currently pedagogy and e-learning specialist, Schulich School of Medicine and Dentistry, UWO

09/08-10/12 Charys Martin (Kinesiology) - Exploration of 3D morphometrics of the hip joint and reconstructive technologies
• Co-supervision with Charles Rice PhD Kinesiology
• Currently Assistant Professor at Schulich School of Medicine and Dentistry UWO

(05/08 - Ngan Nguyen (ACB/Anthropology) - Visuospatial reasoning and it's effect on

05/12) learning
- Co-supervision with Andrew Nelson PhD Anthropology
- Currently Simulation Fellow at the Center for Medical Education & Innovation, OhioHealth

MSc (26 lifetime)

Completed (24)
In Process (2)

2015 ongoing
Olivia Ginty - Ultrasound Guided Mitral Valve Repair during minimally invasive surgery.
Greg Skerratt - Determination of Scapular Muscle Volume from Surface Scan. Volumetric validation against µCT.
Santiago Corbos - Development of virtual surface scanning rendering and measurement techniques from µCT: Application to Temporomandibular Joint.

2012-14
Arjun Maini - Monitoring the effects of 2D vs 3D visualization modalities during standardized laparoscopic testing in experienced clinicians.
- co-supervision with Steven Paulter MD (urology)

2011-13
Jeremy Roth - Development of 3D histological approach
- co-supervision with Martin Sanding (ACB)

Steven Holterman ten Hove - Temporomandibular disc morphology
- co-supervise with Khadry Galil (ACB))

Ben Asa - Biomechanical Exploration of fibular winging following below knee amputation
- co-supervise with Michael Payne, Physical Medicine and Rehabilitation, Parkwood Hospital)

Sonya Van Nuland - The effects of competition amongst online anatomy learners using supplemental learning tools.
- co-supervision with Dan Belliveau (Health Studies)

2010-12 (5)
Louis Kour - No “I” in Anatomy: the ethnographic characterization of learning groups in the gross anatomy dissection laboratory
James Turgeon - Development and testing of 3D brachial plexus - examination of the role of prior knowledge and module interactivity. (co-supervision: Kevin Armstrong MD - anesthesia)
Kelly Pederson - 3D Brain stem and cranial nerve nucleii e-learning module(co-supervision: Sandrine deRibaupierre MD - neurosurgery)
Lauren Allen - Development of fully interactive 3D eye model - comparison to standard online educational approaches. (co-supervision: Corey Moore MD - otolaryngology)

Hannah Kim - Comparison of gross anatomy approaches to the anterior forearm: Syncretion vs Dissection

2009-11 (5) Victoria Roach - Is stereoscopic 3D the cutting edge of surgical skill education (co-supervision: Corey Moore MD - otolaryngology)
Emily Isreal - MicroCT exploration of the maxilla (co-supervision: Khadry Galil, DDS, PhD dentistry/anatomy)
Andrew Palombella - Morphometry of the temporal mandibular joint (co-supervision: Khadry Ghali)
Andrew Jun - Using cognitive load theory to ameliorate existing e-learning modules (co-supervision Kevin Fung MD, otolaryngology)
Rebecca Tompkins - Histological characterization of the Common Peroneal Nerve in Humans, a view towards better muscle sympathetic nervous activity (MSNA) measures (co-supervision K. Shoemaker PhD , kinesiology)

2008-10 (1) Natalie Massey - 3D exploration of the Inferior Alveolar Nerve through Micro- Computed Tomography. (co-supervision, K. Galil, DDS, PhD dentistry/anatomy)

2007-09 (5) Aimee Sergovich (ACB) - Development of Digital Female Pelvis from the Visible Human Dataset (co-supervision M. Johnson PhD, anatomy)
Christina Lew (ACB) - Development of virtual cerebro-ventricular system
Michael Midgley (ACB) - Exploration of digital tools available to the modern anatomy educator
Robin Hopkins (ACB) - Taking a bite out of the lab book - Digital muscles of mastication vs. traditional laboratory environments
Tamara Stock (ACB) - Development of scanning and modeling techniques for histology: The mammosphere project (co-supervision M. Postivit PhD, Anatomy)

2007-08 (3) Ngan Nguyen - Development of virtual head and neck model
Ashley Clausner - Do students prefer and excel in 3D lectures
Jennifer Boeckner - Development of 3D heart and lung model for education

Medical and Dental Student Supervision (5)

Schulich Dental Research Opportunities Programme (2016)
- Farah Abu Sharkh - developing online anesthetic guide

Schulich Dental Research Opportunities Programme (2015)
- Jason Vincent - build on the work of graduate student to build periodontal e-learning platform for lower socio-economic population

Schulich Research Training Programme 2014-15

• Mark Dawidek - Developing virtual visual training exercises for individuals of lower spatial ability: A view to better laparoscopists
    • winner of the 2015 SRTP Cindy Hutnik Award for best project and presentation.
    • see publication submission

Schulich Research Training Programme 2011-12
• Manisha Mistry - Impact of Stereoscopy on Endoscopic Skills Translation in Novices
    • see publications

Schulich Research Opportunities Programme 2009-10
• Jeffery Yeung - Development and testing of Cranial Nerve Simulation Trainer
    • see publications

Advisory Committees

PhD (6 lifetime)

2015-present	Kristine Walker (Physiotherapy) - Training the Eye Movement of Hockey Players to Increase Playmaking and Decrease Injury
2015-ongoing	Colin Moore (Kinesiology) - Understanding anatomical variation through the lens of segmentation
2014-ongoing	Courtney Hanna (Health Sciences) - Development of best practices for online pre-knowledge activities.
2013 - 2015	Sonya VanNuland - Testing online learning tools with cognitive load distractors
2012 2016	Dongmei Cui - Development of 3D virtual anatomy laboratory and materials University of Mississippi Medical Center, Jackson, MS
2011 2015	Stefanie Attardi - Exploration of online pedagogy for gross anatomy education
2008 2012	Michele Barbeau - Comparison of Online vs. In-Class pedagogy

MSc (18 lifetime)

2015-16	Kaitlin Turner - Greg Skerrat - Olivia Ginty - Santiago Cobos -
2014-15	Kate Dillon -

Jackie Yang-
Juwan Ryu -
Simrat Gill-

2011-12	Ryan Rawski - Elaboration of the Anesthesia Digital Atlas for ultrasound-guided blocks
	Samantha Dunnigan - Development of online learning anatomical learning guide for radical hysterectomy
2010-11	Kathleen Milne - Development of Web-based clinical atlas for ultrasound-guided anesthesia
	Matthew Johnson - Development of virtual gastro-endoscope for clinical training
2009-10	Sid Bhattacharayya - Development of interactive Learning Module (3D-X) to enhance cross-sectional anatomical understanding of abdomen.
	Kyle Dorosh - Deployment and Evaluation of 3DX in medical trainees
	Maher Sabalbal - Digital and anatomical exploration of the geniculate arteries of the knee
2008-09	Harold Yim (ACB) - Construction of 4D heart
	Sarah Beech (ACB) - Exploration of the variations in the internal iliac artery in females
	Ashley Grau (HS) - Does shopping locally provide measurable health benefits?
2007-08	Kristyna Wakimoto (ACB) - MRI investigation of anterior leg musculature in the elderly.
2005-06	Miranda Deller (Kin-Lakehead) - Visuospatial acuity and driving reaction time in the elderly. Graduate Examining Committees

Examination Committees

PhD (13 lifetime)

2016	Ashley Hannon (Kinesiology) - Shoulder kinematics Alter with age and history with rotator cuff surgery
	Theo Versteegh (Rehabilitation Sciences) - Effects of neck strength on concussion
2015	Nicole Coverdale (Kinesiology) - Reactivity of the middle cerebral artery to carbon dioxide.
	Dongmei Cui (Anatomy and Neurobiology - University of Mississippi) Development and Evaluation of the Segmental Anatomy for Medical Education
2014	Kamyar Abhari (Biomedical Engineering) - Visual perception and cognition in image guided intervention.
2013	Steve Greening (Neuroscience)- Flexibly Adapting to Visual Cues
2011	Colin Dombroski (Health and Rehabilitation) - Gait Analysis of leg length variability: effects of correction through lifts.

Daniel Bechard (Kinesiology) - Walk softly and carry a big stick: Biomechanical analysis of gait in persons with high tibial osteotomy using walking sticks.

2010 Brian Dalton (Kinesiology) - Single muscle motor unit recording in the tibialis anterior

Christian Linte (Medical Biophysics) - Augmented reality tools for surgical training, Approach, Validation, and animal testing

Gregory DuManior (Kinesiology) - Leg extensor muscle oxygenation kinetics: correlates with femoral blood flow and near infrared spectroscopy.

2009 Bruce Frier (Kinesiology) - Role of heat shock proteins in muscle energenics

Lisa Chin (Kinesiology) - Effects of prior heavy exercise on the oxygen uptake kinetics of subsequent exercises in the elderly.

2008 Negin Ashki (Neuroscience) - Reactive Nitrogen and Oxygen Species Cause Reversible Axonal Conduction Deficits in the Mammalian Spinal Cord

2007 Michael Johnson (Kinesiology) - The role of type-II pain fibres in MSNA modulation during sympathoexcitation

2006 David Thorp (Kinesiology) - The role of heat shock proteins and coronary blood flow post M

MSc (14 lifetime)

2015 Ryan Marinovich (Biochemistry) The role of bone sialoprtein in the tendon-bone insertion.

Amanda Deosaran -The Effects of a Multiple-Modality Mind-Motor Program on Vascular Outcomes in Community-Dwelling Older Adults with Subjective Cognitive Complaints

2014 Syed Ali (Surgery) - Validation of a Novel Evaulation Methodology for Training Surgical Tissue Plane Identification.

Alexander Stephen (Kinesiology) - Comprehensive Analysis of Abdominal Tendon Length Muscle Ratio in Human and Rat Specimens.

Youngmin Jun (Kinesiology) - Evaluating the similarity in postures between forklift operators in virtual reality and the workplace.

Jesse DiSimone (Kinesiology) - the Antisaccade task: visual Distractors elicit a location-independent planning ‘cost’

Mitchell Graham (Kinesiology) - Maximal Motor Unit Discharge rates of the medial and lateral gastrocnemii of young adult males.

2013 Arthur Klages (Anthropology) - A micro-CT analysis of the homonid subnasal anatomy

2012 Ali Mulla (Kinesiology) - EEG and Kinematic behaviours in reaching

2011 Brigitte Valsamis (Neuroscience) - Modulation of prepulse inhibition by NMDA receptors

Catherine Hall (Rehabilitation Sciences) - The Effect of Aerobic and Resistance Exercise on Insulin Sensitivity and Glycemic Control in Type I Diabetic Rats.

2008 Andrew Wade (Anthropology) -

Marie-Claire Bourke (Kinesiology) - Oxygen uptake kinetics in older adults after pre-exercise warmup

2006 Deborah Saltzer (Kinesiology) - Metabolic syndrome and early onset diabetes in youth.

2005 Daniel Bechard (Kinesiology) - Biomechanical assessment of high calibre rowers

Graduate Examination Chair

Comprehensive Examiner

2016 - Colin Mooer (KIN)
2013 - Leila Kelleher (KIN)
2010 - Michelle Barbeau (ACB)

Doctoral Defense Committee Chair

2012 - Choi-Fong Cho (Medical Biophysics)
Gabrielle Young (Education)
Phillip Mederos (Medical Biophysics)
Seyed Reza Mahmoudi (Electrical and Chemical Engineering)
Joel Shank (Geology)

2011 - Ricardo Scucuglia (Education)

Undergraduate 4th Year Honours Projects (20 lifetime)

2015 Mark Abbott (Kin) Exploration of CBF and individuals with low spatial ability
Ilan Levy (Kin) Exploration of CBF and individuals with high spatial ability

2014 Claire Wilson (Kin) - Cerebral Blood Flow and Spatial Visualization Ability

2011 Katerina Matichuk (Art) - Mixed media exploration of digital and gross anatomy

2010 Danielle Brewer (Kin) - Development and in class testing of a neuroanatomy trainer (see publication)

Matt Devlin (MIT) - Exploration of presence in virtual worlds: Informing the potential use of online massive multiplayer environments for educational purposes.

2008 Yang Ding (MedBioPhys)- Exploration of cognition of image and stereoscopic projection

Jonathan Sen (HS) - Embryology of heart Formation

Fiona Stewart (scholar's elective)- Water borne diseases of the developing world

Nikita D'Souza (HS) - Neuronal plasticity of vision loss: A case study

Michael Lok (HS) - Epidemiological investigation of knee injuries in female teenagers

Allan Hillis (Kin)- Radiographic and 3D Exploration of L4-5 disc herniation

2007 Kathleen Ewing (HS)- The role of breast feeding in developing nations

Farheen Mussani (HS)- The role of health awareness on youth in Uganda, Kenya, and Tanzania
Sebastian Vuong (Kin)- Investigation of artificial blood and it's role in battlefield dressage
Melissa Martin (HS)- Development of 3D digital heart model for undergraduate education
Mark Dickson (Kin)- Anatomical investigation of voice production and control.
Ericka McNeil (Kin) - Coronary Heart Disease, Impacts and Epidemiology
Fiona Stewart (Scholar's Elective) -

2006 Farheen Mussani (HS)- Embryological Origins of Heart Malformations
Matthew Legassic (HS) - Tele-health Informatics in Southwestern Ontario
Yang Ding (Med Biophysics)- Explorations into 3D digital Volumetric Models for Education

High School

The Partners in Experiential Learning Programme (PEL) is a CIHR initiative across London and area. The goal is to set up co-op students of exceptional ability in laboratories at Western University. The CRIPT lab is a perennial favourite.

2015 -16 Coco Wang - currently working in my lab
2013 -14 Lauren Sanderson - volleyball athletic scholarship at Colgate College, NY.
2012 -13 Laurin Black - now studying Kinesiology at UWaterloo.
2011 -12 Amanda Philavong - now in Medical Sciences UWO.

Pedigree of Students Supervised:

Victoria Roach PhD - Assistant Professor - Oakland William Beaumont School of Medicine, 2016.
Arjun Maini - MSc student - Head Laboratory Facilitator Ross Medical School, Dominica, 2014
Sonya VanNuland - PhD student - University of Western Ontario 2013
Jeremy Roth - Lecturer Fanshawe College, University of Western Ontario 2013, Anatomy Laboratory Manager University of Waterloo 2013-present.
Ben Asa - Trinity College, Dublin Ireland - Medicine Class of 2017
Steven Holterman ten Hove - Unviersity of Toronto Dentistry class of 2017
Charys Martin PhD - i) Assistant Professor, Dept. of Cellular Biology & Anatomy Medical College of Georgia at Georgia Regents University Dec 2012- June 2015, ii) Assistant Professor, Department of Anatomy and Cell Biology, Schulich School of Medicine and Dentistry. July 2015-present
Ngan Nguyen - i) Post Doctoral Fellow Neurosurgery and Engineering, ii) Post-Doctoral Fellow, Ohio State & the Mayo Clinic, UWO August 2014-15, iii) Simulation Consultant Ohio Medical Education Centre Aug 2015-present
Victoria Roach - PhD Student CRIPT Lab - Vanier Scholarship Nominee 2011- 2015
Danielle Brewer, PhD candidate - CRIPT Lab - Vanier Scholarship Nominee, 2013-present
Lauren Allen, Teaching Certificate UWO, 2013 PhD candidate UWO - 2013- present

Kelly Heyer (née Pedersen), Ross Medical School 2016, Head Lab Technician, Southern Medical Program, UBC -2013, Ross School of Medicine 2016
Louis Kour - Sydney School of Medicine, Australia, 2016
James Turgeon - Head Anatomical Technician, Guelph, 2012
Tamara Stock - Head Anatomical Technician, Waterloo, 2010
Hanna Kim, Nursing University of Toronto 2012
Emily Israel - Dentistry - UWO class of 2015
Rebecca Tompkins - Ross Medical School Dissector Technician 2010, Nursing 2012, RN London Health Sciences 2013-present
Kathleen Milne - Medicine- UWO class of 2015
Mahar Sabalbal - Medicine - UWO class of 2015
Andrew Palombella - McMaster University - Head Anatomy Lab Technician
Tamara Stock - University of Waterloo - Head Anatomy Lab Technician
Ngan Nguyen - MSc & PhD - SSHRC doctoral award 2009-2011, UWO
Robin Hopkins MSc - PhD student, 2013, UBC - Glen Regehr
Kyle Dorosh MSc - Medicine, Class of 2013, McMaster University
Siddartha Bhatacharyya - Medicine, Class of 2014, UWO
Aimee Sergovich - Teacher, Teaching certificate 2009 UWO
Michael Midgley MSc - lecturer Nursing and ACB, UWO, fall of 2012 commencing a lecturship at Quinnipiac University, Connecticut.
Harold Yim MSc - Medicine, Class of 2013, Trinity College, Ireland
Natalie Massey MSc - Toronto School of Nursing - Class of 2012
Allan Hillis BHSc -Teacher, teaching certificate 2012 - UWO
Jonathen Sen BHSc - Medicine, Class of 2014, University of Toronto
Jennifer Boeckner MSc - Medicine, Class of 2012 University of Ottawa
Yang Ding BMSc - PhD student, Vanier scholarship awardee, 2014 - McGill
Farheen Mussani BHSc - governor general's gold medal award, Medicine, Class of 2011 University of Toronto
Miranda Deller MSc - Dentistry, class of 2012, UWO.

Education-Based Interviews

2. American Dental Education Association Executive Director Dr. Rick Valachovic's *Charting Progress, A Visite to the Flipped Classroom*
   - Interviewed by Nicole Fauteux on August 27th, 2012.
   - http://www.adea.org/about_adea/Pages/ChartingProgress.aspx
   - interview followed by article in September issue of this ADEA journal (see October 2012 at http://www.adea.org/uploadedFiles/ADEA/Content_Conversion_Final/about_adea/ADEA_CP_October_2012.pdf

1. Elena Zafra(Opinno), "Una linterna virtual para explorar el interior del cuerpo" [translation - A virtual flashlight to explore the interior of the body.] Technology Reviews, July 4, 2012.
   - http://www.technologyreview.es/read_article.aspx?id=40727&pg=2
   - interview with author followed by written submission to Spanish journalist

III. Service

Editorial Board Anatomical Sciences Education

Associate Editor
2013- present
- Anatomical Sciences Education *(ASE)*
- the most highly ranked anatomical education journal in the world.

Committee Membership

Society Level

2014 & 2016 Western Conference on Science Education (WCSE) paper reviewer for annual conference. Helped decide the quality of papers and provide critical feedback to the authors for improvement.

November 2014 - October 2015
• Member of Organizing Committee AAA regional meeting at Western, The first international satellite conference for AAA, October 2015.

2012-ongoing - The Teaching Professor Technology Work Group - Magna Publications. Organizing annual conference, work with staff to develop online content and publications.

2015 Conference Chair - The Teaching Professor Technology Conference, New Orleans, LA, October 3-6, 2015

2013-2016
• Member of *Educational Affairs Committee* American Association of Anatomists (AAA)

2012-2015
• Member of Committee *Membership (AAA)*

2008-09
• Member of Undergraduate Awards Committee (Autonomic Neuroscience) *American Physiological Society (APS)*

University Level

April 2016 - Scholar's Elective Selection Committee
• evaluated student applications to Western's Scholar's Elective program at Schulich.

July 2012-2015
• *Member of SubCommittee on Teaching Awards* (SUTA)
    • review the annual nominations:
        • Angela Armitt Award for Excellence in Teaching by Part-Time Faculty
        • Marilyn Robinson Award for Excellence in Teaching by Junior Faculty
        • Pleva Award for Excellence in Teaching by Senior Faculty
    • meet in committee to discuss nomination dossiers and form awardee packages

Mentorship Committees

January 2012- present
• Member of *Mentorship Committee* **Sarah McLean PhD** (Schulich Educator)
    • chair Doug Jones PhD,

November 2013- present
• Member of *Mentorship Committee* **Anita Woods PhD** (Physiology/Pharmacology)
    • chair Jane Rylett PhD, members Brian Corneil PhD and Tom Stavraky MSc

March 2014 - present
• Member of *Mentorship Committee* **Steven Macaluso MD** (Physical Medicine and Rehabilitation)
    • chair Timothy Doherty PhD MD, members Lorelei Lingard PhD

April 2016 - present
• Member of Mentorship Team **Louis Mattar PhD** (Sport, Health & Physical Education - SHAPE)
    • Vancouver Island University, Nanaimo, BC

Faculty Level

Feb 2010 to present
• Member of Undergraduate Dental Curriculum Committee (CUDC)
    • review entire Dentistry curriculum on annual basis
    • verify grades of each course and student within the course.

Feb 2012 to present
• Member of Academic Affairs Committee in Dentistry

May 2010 to 2016
• Member of Schulich Nominating Committee

• suggest Schulich members for various positions across the faculty

Departmental Level

Jan 2010-12, 2013-14, 2015-16
• Member of Annual Performance Evaluation Committee

Sept 2007-present
• Member of Anatomy and cell Biology Seminar Series Committee

September 2008 – present
• Member of *Graduate Affairs Committee*

Grant Reviewer

2016 The Cochrane Tobacco Addiction Group (UK)
• reviewed any grants that had virtual reality aspects and learning.
2016 Faculty Support for Research in Education (Schulich)
• reviewed educational research grants for faculty wide competition.
2015 The Ministry of Education (MOE), Singapore's Institutes of Higher Learning (IHL)
• Enabling Student Learning of Visuospatial Related Concepts & Skills in Medicine, Engineering and Science through Digital Modelling and Fabrication (1 TRP 03)

Manuscript Reviewer

• Anatomical Sciences Education
• Academic Medicine
• Autonomic Neurosciences
• Australasian Physical & Engineering Sciences in Medicine
• BMC - Neuroscience
• Clinical Anatomy
• Computers in Biology and Medicine
• Computer Methods and Programs in Biomedicine
• Education Sciences
• Experimental Brain Research
• International Journal of Computer Assisted Radiology and Surgery
• Journal of Applied Physiology
• Journal of Vestibular Research
• Otology and Neurotology
• SAGE Open

Tenure and Promotion Evaluator

2016 External Tenure and Promotion Evaluator
• University of British Columbia, Faculty of Health Chair Dr. Paul Morshead

2014 Internal Review of Tenure and Promotion Dossier
University of Western Ontario, Physical Medicine and Rehabilitation, Chair Timothy Doherty

2013 External Tenure and Promotion Evaluator
• University of Toronto, Department of Surgery, Chair Dr. Cindi Morshead

Advisory Boards

2016 Invited Membership on American Association of Anatomists Oversight Committee on Regional Meetings

2014-15 American Association of Anatomists Regional Meeting Application Committee.
• Worked with my colleagues to formulate an application for London and a regional meeting bring together anatomists and educational leaders from across the Great Lake's Basin.

2012-16 The Teaching Professor Technology Conference Advisory Board Member
http://www.magnapubs.com/2015-teaching-professor-technology-conference/advisory-board.html
• reviewing conference abstracts for presentation on face-to-face, blended, and fully online educational practice, technology application, and theoretical evaluation
• aided with program formation and logistics at the conference
• developed the overall program schedule

Professional Memberships:

2016 Member of the American Educational Research Association
2015 - present - Member American Dental Education Association
2015 - present - Member of the Psychonomic Society
2010 - present - Centre Researcher - Centre for Education Research & Innovation (CERI)
2010 - present - Member - Joint in Motion Program (JuMP)
2010 - present - Member - The Biomedical Imaging & Research Centre (BIRC)
2008 - 2010 - Member- Society of Teaching and Learning in Higher Education
2006 - present - Member - American Association of Anatomists
2004-12 - Member - Society for Neuroscience, autonomic and neural circuits sections
2001-09 - Member - International Society of Cerebral Blood Flow and Metabolism
1998-10 - Member - American Physiological Society

Professional Service, Scholarly Interviews, Films, & Radio

Summer 2015 & 2016: **Facilitator for the Instructional Skills Workshop Online *(ISWO)***
Teaching Support Centre (TSC), University of Western Ontario
- 5 week online training curriculum utilizing skills from the face to face ISW but in an online course

- co-facilitators Lauren Anstey (2016), Beth Hudney, (2015) and Gavin Watson (2015-16)

March /2015 – **Schulich Continuing Professional Development Series** – "A Walk on the Flipped Side" – Presentation for CPD with Sarah McClean and Derek McLachlin.

August 27/2014 - **UWO Fall Perspectives on Teaching**
Panel Discussion - "Exploration in Digital Teaching: Some Case Studies in the Uses of Instructional Technologies"

June - July 2014: **Facilitator for the Instructional Skills Workshop Online *(ISWO)***
•Teaching Support Centre (TSC), University of Western Ontario
• 5 week online training curriculum utilizing skills from the face to face ISW but in an online course
• Facilitating a pre-developed online lesson
• Integrating adult learning theories and principles into lessons you facilitate
• Employing a variety of learning facilitation techniques and strategies
• Using effective questioning and online coaching techniques
• Giving and receive constructive feedback
• Modelling and fostering analytical, critical, strategic, creative and reflective thinking
• Working effectively with online teams
• Reflecting on and plan how to transfer and apply what you have learned to other courses and contexts

August 19-22nd, 2013: **Facilitator Instructional Skills Workshop *(ISW)***
•Teaching Support Centre (TSC), University of Western Ontario
• the goal of this programme is to teach facilitatory skills that will support ISW training of the future.
• the programme helps refine skills for garnering educationally related discussions that provide constructive feedback to participants through demonstration of a number of feedback strategies
• team building and theoretical understanding of learning principles are explored with attendees.

August 20-24th, 2012: ***Instructor Skills Facilitator Training Workshop (ISW)***
•Teaching Support Centre (TSC), University of Western Ontario
• acting as a team member with the **Teaching Support Centre**
• after completing an instructor skill workshop **chosen participants** are invited back for facilitatory training in order to lead future ISW workshops around the world. ISW facilitator training teaches us how to facilitate group discussions, activities and feedback sessions surrounding good teaching practice.

May 2012: Consultant for Yap Productions, Guy Halpan, Providing anatomical insights into documentary outlining human body sounds. Production over summer and plan to air on **Discovery Channel** in 2013.

February 2012: Announcement of the Marilyn Robinson Teaching Award Western News
http://communications.uwo.ca/western_news/stories/2012/February/201112_awards_for_excellence_in_teaching.html

August 2011: **Instructional Skills Workshop *(ISW)***
• **Teaching Support Centre (TSC), University of Western Ontario**
- an intensive 4 day workshop hosted by the Teaching Support Centre where micro- teaches and constructive feedback activities were employed to expand the pedagogic skills of the participants.

June 2011: Instructional Technology Research Centre Spotlight on Projects and Faculty
http://itrc.uwo.ca/spotlight-TimWilson.html

November 2008: Documentary Scientific Co-Host, *The Body Machine*, **Discovery Channel**.
Personal Clip: http://www.youtube.com/watch?v=ZkrzWHs2pTA (see 2:45min)
Promotional clip: http://www.youtube.com/watch?v=GTNTZS8mIoE

October 2007: Western News: New Anatomy Graduates

August 2007: Stereoscopic Anatomy, Rogers Cable London.
http://communications.uwo.ca/weblogs/Schulich/August14.html

January 2007: London Free Press Minister of Education Funding announcement.

December 2006: Radio Interview with CBC Morning – Anatatorium Research

December 2006: Canada AM interview: What is the Anatatorium?
http://www.anatatorium.com/CRIPT/Media.html

December 2006: Ottawa Citizen: Anatatorium Story

December 2006: Calgary Herald: Anatatorium Story

December 2006: Victoria Times-Colonist: Anatatorium Story

December 2006:Vancouver Sun: Anatatorium Story

October 2005 Western News: Anatatorium Story

September 2005 A-Channel interview on First Day in New Professor's Life

Humanitarian, Ambassadorial, and Exchange Experiences

2005-07 *International Centre for Olympic Studies*: Olympic Council Member

1992-95 *French Immersion Studies, The Un-University Challenge:*
Lived and worked in southern France (Cote d'Azur). Immersed in French language and cultural activities to foster language and trade skills. Certified stone mason apprentice (Menton) and guardian de villa (Pé Gras) in the Basse Alpes. Fostered trade, business, and language skills over this time.

1990-91 *Canada World Youth:*
Part of a team of young Canadians and Malians on a 9 month young ambassadorial and culture exchange between St. Louis-de- Gonzague in rural Québec and and Koniobla in rural Mali, northwest Africa.

The goal was to foster deeper understanding amongst and between Canadians and Malians. The exchange was undertaken entirely in French and Bambara the local languages.

1987 *Teen Missions International:*
Part of a North American Team stationed in Poste Métier, Haiti. We aided local missionaries (Loyer family) in the construction of a new church, participated in Christian and cultural outreach programmes. The programme was hosted from the United States, Merrit Island Florida. The local language in Haiti was French and Creole.

Languages

English - spoken, written
French - spoken, informal writing
Bambara - casually spoken