

## **CURRICULUM VITAE**

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## CURRICULUM VITAE

June 2019

**Name:** Andrew John Nelson  
**Rank:** Professor, Department of Anthropology, The University of Western Ontario  
**Tenured:** July 1, 1999

### **Education:**

Degree	University	Department	Year
PhD	University of California, Los Angeles	Anthropology	1995
MA	University of Sheffield	Paleopathology and Funerary Archaeology	1985
BSc (Hon)	Trent University	Anthropology & Biology (joint major)	1984

### **Employment History:**

Date	Rank & Position	Department	Institution
2018 to date	Professor	Anthropology and Chemistry	The University of Western Ontario
1999-2018	Associate Professor	Anthropology	The University of Western Ontario
2017	Associate Professor	cross-appointment to Chemistry	The University of Western Ontario
2010-2015	Associate Dean, Research & Operations	Faculty of Social Science	The University of Western Ontario
Summer/Fall 2009	Graduate Chair	Anthropology	The University of Western Ontario
Fall 2008	Visiting Lecturer	Anthropology	Pontifica Universidad Católica del Perú
2006-date	Research Associate	World Cultures	Royal Ontario Museum
2002-2007	Graduate Chair	Anthropology	The University of Western Ontario
1994-1999	Assistant Professor	Anthropology	The University of Western Ontario
1993-1994	Lecturer	Earth Sciences	Santa Monica City College

### **Academic Awards and Distinctions:**

2006-2007 - Faculty Scholar – Faculty of Social Science, Western University Senate  
2000/2001, 2007/08, 2009/10, 2016/17 - USC Teaching Honour Roll Certificate

**Research Funding:** career total = \$10,892,423 (US\$ converted as 1:1)

- as PI or co-PI = \$ 1,123,204

- as collaborator = \$10,022,655

**External Funding:**

Year	Position	Grantor	Purpose	Amount
2019	Co-PI – (with Jocelyn Williams)	SSHRC – Mummies as Microcosms: The Bioarchaeology of the Inka Occupation of the Central Coast of Peru	Research	\$ 253,435
2014	PI (SSHRC Leader)	SSHRC & in-kind University support “Big Data in the SSHRC Disciplines - Data from the Past, Present and Future”	SSHRC Regional Event	\$30,000
2012	Co-PI (with R. Thompson)	Digging Into Data Challenge – SSHRC and National Endowment for the Humanities. “IMPACT Radiological Mummy Database”	Research	SSHRC = \$80,917 NEH = \$84,566(US)
2011-2014	Co-Applicant (C. White PI)	SSHRC Isotopic anthropology of pre-Columbian camelids from northern Peru	Research	\$124,235
2009-2014	Co-applicant (N. Ferris PI)	Canada Foundation for Innovation, Ontario Ministry of Research and Industry and matching sources “Capacities for a Sustainable Archaeology”	Infrastructure	\$9.77 million  (CFI=\$3.9M, ORF = \$3.9M matching = \$2.0M)
2005	Project Associate (R. Martin PI)	NSERC Synchrotron radiation analysis of anthropological materials	Research	\$49,500
2004	Sole Investigator	SSHRC Conference Grant 3D Imaging in Anthropology Workshop	Workshop	\$42,249
2003	Sole Investigator	GE Medical Luminary Research Program MicroCT Analysis of Teeth	Research	\$10,000
2000	Principal Investigator	Canadian Foundation for Innovation, Ontario Innovation Trust & matching sources Bioarchaeological Research Facility at UWO	Infrastructure	\$345,000
2000	Sole Investigator	SSHRC Research Grant Biocultural Change Over Time in the Ancient Moche of Northern Perú	Research	\$52,500

1998	Project Associate	Quinnipiac College Research Committee Radiological analysis of skeletal collections in Peru	Research	\$1,936 (US)
1996	Sole Investigator	SSHRC Research Grant Bioarchaeology Project in the Region of San José de Moro, Perú	Research	\$75,000
1996	Sole Investigator	G.L. Bruno Foundation Bioarchaeological Research in Perú	Research	\$5,000 (US)

**Western University Internal Funding:**

Year	Position	Grantor	Purpose	Amount
2016	Sole Investigator	Environment, Culture and Health in Ancient Perú - Social Science Research Fund	Research	\$9,902.32
2105	Sole Investigator	Faculty of Social Science – Faculty Research Development Fund - The Impact Database – Going Live	Research	\$5,000
2011	Sole Investigator	Dean of Social Science, Alumni Research Award “CT Scanning of the Redpath Mummies”	Research	\$3000
2009	Sole Investigator	Dean of Social Sciences, Agnes Cole Dark Fund “Bioarchaeological Field Work in Perú – Chan Chan”	Field work	\$1,200
2009	Sole Investigator	UWO Research Development and Services – University Research Grant	Attend a conference	\$2,506.60
2007	Sole Investigator	Dean of Social Science, Dean of Schulich School of Medicine and VP Research UWO “CT Scanning of the ROM Mummies”	Research	\$3000
2005	Sole Investigator	UWO Senate Faculty Scholar Grant	Research	\$15,000
2005	Sole Investigator	UWO SSHRC Fund SSHRC Reapplication Grant	Research	\$7,500
2005	CO-PI with C. White and M. Spence	UWO Academic Development Fund Grant Bioarchaeology Research Collection Cataloguing Initiative	Collections Maintenance	\$7,500
2004	Sole Investigator	UWO International Research Grant Bioarchaeological Research and Networking on the North Coast of Perú	Research	\$7,000

2003	Co-PI with Ron Martin	UWO Academic Development Fund Grant Interdisciplinary Studies of Anthropological Samples	Research	\$35,000
2003	Sole Investigator	UWO Social Science Alumni Assn. Bioarchaeology Project in Pacasmayo, Perú	Research	\$3,000
2000	Principal Investigator	UWO Academic Development Fund Grant Bioarchaeological Microscopic Facility	Infrastructure	\$34,977
2000	Sole Investigator	VP (Research) Res. Promotion Fund Promotional material for Pacasmayo Project	Research	\$950
2000	Sole Investigator	VP (Research) Project Grant mtDNA analysis of osteological material from Pacatnamú (Munich Collection)	Research	\$2,000
1999	Sole Investigator	VP (Research) Res. Promotion Fund Research visit to osteological collections in Munich Germany	Research	\$2,000
1997	Project Associate (P. Ashmore PI)	UWO Academic Development Fund Grant Geography department's remote sensing grant	Infrastructure	\$76,984
1995	Sole Investigator	SSHRC UWO Internal Grant Bioarchaeological Research in Perú	Research	\$5,000

**Graduate Student Funding:**

Years	Grantor	Award	Amount
1988-89, 1989-90	Alberta Heritage Scholarship Fund	Sir James Lougheed Award of Distinction	\$15,000/yr
1987-1990	Social Sciences & Humanities Research Council of Canada	Doctoral Fellowship	\$12,000/yr

## Archaeological/Bioarchaeological Museum/Field Research

### Field Archaeological Projects: (career summary = 13)

Project/funding	Date
The Smoked Body Mummies of Papua New Guinea (with Ron Beckett) - National Geographic funded project	April 2010
Northern Peruvian Osteological Project - bioarchaeological project at Farfán and Chan Chan - Agnes Cole Dark funded project	Summer 2009
Northern Peruvian Osteological Project - bioarchaeological project in Lima and on the Peruvian North Coast (Farfán) - UWO International Research Grant, Academic Development Fund, Faculty Scholar Award and Alumni Grant funded project	July 2006 June to August 2004 June to August 2003
Jequetepeque Valley Osteological Project – working with material from San Jose de Moro, Farfán and Dos Cabezas - SSHRC funded project	June to August 2002 June to August 2001 June to August 2000
Archaeological Field Project "El Complejo de San José de Moro", Perú - codirected with Dr. C. Mackey, California State University Northridge & Prof. L.J. Castillo, Pontifica Universidad Catolica del Perú - SSHRC and UWO SSHRC Internal grant funded	May to July 1999 Summer 1998 Summer 1997 Summer 1996 Summer 1995

### Museum Research Visits: (career summary = 17)

Museum/Collection	Date
Museo Nacional de Arqueología, Antropología e Historia del Perú – x-raying mummy bundles from the site of Rinconada Alta	July 2018
Centro Mallqui, Leymebamba; Museo Nacional de Arqueología, Antropología e historia del Perú and Parque de las Leyendas, Perú	June 2017
Centro Mallqui, Ilo, Perú – mummy examination	August 2016
Natural History Museum – microCT scan medieval prayer bead & coffin from the Wernher Museum	July 2014
Museo Jijón y Caamaño, Pontifica Universidad Católica del Ecuador, Quito Ecuador- study the Maranga Mummies	January and May 2013
Redpath Museum, Montreal, QC – scan the Redpath Mummies	April 2011
Canadian Museum of Civilization and Ottawa Heart Hospital – scan the UQAM Mummy	November 2008

Centro Mallqui, Leymebamba, Perú – mummy autopsy	August 2003
Institut für Humangenetik und Anthropologie, Munich – study of the UD Pacatnamu material	May 2001
Chatham-Kent Museum - study of the Sulman Mummy	April 2001
Natural History Museum, London, UK – visit skeletal collections	August 2000
Department of Anatomy and Cell Biology, University of Cape Town, South Africa – study the Khoi-San skeletal collection	August 1999
Canadian Museum of Civilization, Hull, Quebec – study the Sadlermiut skeletal collection	December 1997
Department of Anatomy, University of Edinburgh Medical School – to study the giant specimen and putatively pre-contract leprosy case	April 1997
Ontario Science Centre, Toronto – x-ray the Anglo-Saxon specimens in their collection, and to advise the Science Centre on their Human Biology Exhibit	October 1995
Field Museum of Natural History, Chicago, Illinois – to study and x-ray their Upper Paleolithic skeleton	June 1995
Mutter Museum (College of Physicians), Philadelphia and the Department of Anatomy, Yale University, New Haven, Connecticut – to study their acromegalic giants	May 1995

## Knowledge Mobilization - Publications

### Career Summary

Category	Career Total
Articles in Refereed Journals	45 published; 1 in revision
Book Publications Books (coauthored) Books (edited) Chapters in edited volumes	1 in press 1 and 1 accepted 18 + 1 in press and 5 accepted
Non-refereed Journal Articles	7
Technical Writings	25

**Articles in Refereed Journals:** (career summary = 45 published, 1 in revision)  
(trainees' names are underlined throughout this CV)

- 46) Nelson, A.J. *in revision*. A paleopathological assessment of the leprosy diagnosis for King Robert the Bruce. Manuscript submitted to the International Journal of Paleopathology
- 45) Kozachuk, M.S., Sham, T.K., Martin, R.R., Nelson, A.J., Coulthard, I., Smieska, L. & Woll, A.R. 2019. Recovering Past Reflections: X-Ray Fluorescence Imaging of Electrocleaned 19th Century Daguerreotypes. Heritage 2: 37; doi:10.3390/heritage2010037
- 44) Knowles NK, Langohr GDG, Faieghi M, Nelson A.J., & Ferreira LM. 2019 A comparison of density-modulus relationships used in finite element modeling of the shoulder. Medical Imaging and Physics 66: 40–46.
- 43) Wade AD, Beckett RG, Conlogue GJ, Garvin GJ, Saleem SN, Natale G, Caramella D, Nelson AJ. 2019. Diagnosis by consensus: A case study in the importance of interdisciplinary interpretation of mummified pathological conditions. International Journal of Paleopathology 24: 144-153.
- 42) Knowles, N.K., Daniel, G., Langohr, G., Faieghi, M., Nelson, A.J., & Ferreira, LM 2019. Development of a validated glenoid trabecular density-modulus relationship. Journal of the Mechanical Behavior of Biomedical Materials 90: 140-145.
- 41) Swanston, T., Varney, T.L., Kozachuk, M.S., Choudhury, S., Bewer, B., Coulthard, I., Keenleyside, A., Nelson, A., Martin, R.R., Stenton, D.R., Cooper, D.M.L., 2018. Franklin expedition lead exposure: New insights from high resolution confocal x-ray fluorescence imaging of skeletal microstructure, PLOS One, 13(8).
- 40) Kozachuk, M.S., Sham, T.K., Martin, R.R., Nelson, A.J., Coulthard, I., McElhone, L. 2018 Recovery of degraded-beyond-recognition 19th century daguerreotypes with rapid high dynamic range elemental x-ray fluorescence imaging of mercury L emission. Nature Scientific Reports 10.1038/s41598-018-27714-5.
- 39) Kozachuk, M.S., Sham, T.K., Martin, R.R., Nelson, A.J., Coulthard, I. 2018. Exploring tarnished daguerreotypes with synchrotron light: XRF and  $\mu$ -XANES analysis. Heritage Science 6:12. doi.org/10.1186/s40494-018-0171-8.



- 38) Kozachuk, MS, Sham, TK, Martin, RR, Robinson, M, Nelson, AJ, & Biesinger, MC. 2017. X-ray photoelectron spectroscopy in the study of the chemistry of a daguerreotype surface. International Journal of Conservation Science 8(4):675-684.
- 37) Kozachuk, MS, Sham, TK, Martin, RR, Robinson, M, & Nelson, AJ. 2017. The application of XANES for the examination of silver, gold, mercury, and sulfur on the daguerreotype surface. Canadian Journal of Chemistry. 95(11): 1156-1162.
- 36) Kozachuk, MS, Martin, RR, Nelson, AJ, Hudson, RHE, Macfie, SM, Biesinger, MC, Walzak, MJ, Ellis, L, Suda, A, & Heginbotham, A. 2016. Possible radiation-induced damage to the molecular structure of wooden artifacts due to micro-computed tomography, handheld X-ray fluorescence, and X-ray photoelectron spectroscopic techniques. Journal of Conservation and Museum Studies 14(1): 1–6.
- 35) Stephen, AJ, Wegscheider, PK, Nelson, AJ, & Dickey, JP. 2015. Quantifying the systematic precision and accuracy of the microscribe G2X three-dimensional digitizer. Digital Applications in Archaeology and Cultural Heritage 2: 28–33
- 34) Nelson, AJ & Wade, AD. 2015. IMPACT: Development of a radiological mummy database. Anatomical Record 298:941–948.
- 33) Beckett, RG & Nelson, AJ. 2015. Mummy restoration project among the Anga of Papua New Guinea. Anatomical Record 298:1013–1025.
- 32) Nguyen, N, Mulla, A, Nelson, AJ, & Wilson, TD. 2014. Visuospatial anatomy comprehension: The role of spatial visualization ability and problem solving strategies. Anatomical Sciences Education 7(4): 280-8.
- 31) Wade, AD, Lawson, B, Nelson, AJ & Tampieri, D. 2014. Hybrid ritual: Abdominal incision plate use in a case of transperineal evisceration. Yearbook of Mummy Studies 2: 103-108. - highlighted on <http://www.livescience.com/44644-ancient-egyptian-mummy-has-no-heart.html>
- 30) Wade, AD & Nelson, AJ. 2013. Evisceration and excerebration in the Egyptian mummification tradition. Journal of Archaeological Science 40: 4198-4206. - Highlighted by the CBC <http://www.rcinet.ca/en/2013/07/23/canadian-research-into-mysteries-of-egyptian-mummification/>, USA Today <http://www.usatoday.com/story/tech/columnist/vergano/2013/07/20/mummy-egypt-study/2551135/> and Fox News <http://www.foxnews.com/science/2013/03/22/2400-year-old-myths-mummy-making-busted/>
- 29) Wade AD & Nelson AJ. 2013. Radiological evaluation of the evisceration tradition in ancient Egyptian mummies. HOMO - Journal of Comparative Human Biology 64(1):1-28.
- 28) Martin, RR, Naftel, SJ, Macfie, SM, Jones, KW, & Nelson, AJ. 2013. Pb distribution in bones from the Franklin expedition: synchrotron X-ray fluorescence and laser ablation/mass spectroscopy. Applied Physics A 111: 23-29. - highlighted by the CBC <http://www.cbc.ca/news/canada/north/story/2013/04/08/north-franklin-lead-theory-study.html> and other media outlets.
- 27) Dolphin, A, Naftel, S, Nelson, AJ, Martin, RR & White, CD. 2013. Bromine in teeth and bone as an indicator of marine diet. Journal of Archaeological Science 40: 1778-1786
- 26) Wade, AD, Hurnanen, J, Lawson, B, Tampieri, D & Nelson, AJ. 2012. Dentition of the Redpath 'Theban Male': Early dental intervention and habitual tooth wear. International Journal of Paleopathology 2(4):217-222.
- 25) Friedman, SN, Nguyen N, Nelson AJ, Granton PV, MacDonald BD, Hibbert R, Holdsworth DW & Cunningham, IA. 2012. Computed tomography (CT) bone segmentation of an

- ancient Egyptian mummy: A comparison of automated and semi-automated threshold and dual-energy techniques Journal of Computer Assisted Tomography 36(5):616-622.
- 24) Wade, AD, Garvin, GJ, Hurnanen, J, Williams, LJ, Lawson, B, Nelson, AJ, & Tampieri, D. 2012. Scenes from the past: MDCT of Egyptian mummies of the Redpath Museum. RSNA RadioGraphics 32(4):1235-1250.
  - 23) Nguyen, N, Nelson, AJ, & Wilson, TD. (2012). Computer visualizations: Factors that influence spatial anatomy comprehension. Anatomical Sciences Education 5: 98-108.
  - 22) Wade, AD, Ikram, S, Conlogue, G, Nelson, AJ, Colten, R, Lawson, B & Tampieri, D. 2012. Foodstuff placement in ibis mummies and the role of viscera in embalming. Journal of Archaeological Science 39(5): 1642-1647  
- highlighted in National Geographic
  - 21) Wade, AD, Nelson, AJ & Garvin, G. 2011 A synthetic radiological study of brain treatment in ancient Egyptian mummies. HOMO: Journal of Comparative Human Biology 62(4): 249-269.
  - 20) Thompson, JL & Nelson, AJ. 2011. Middle childhood and modern human origins. Human Nature 22: 249-280.  
- highlighted in the New York Times – December 26, 2011
  - 19) Wade, AD, Nelson, AJ, Garvin, G & Holdsworth, DW. 2011. Preliminary radiological assessment of age-related change in the trabecular structure of the human *os pubis*. Journal of Forensic Science 56(2):312-319.
  - 18) Nelson, AJ, Chhem, R, Cunningham, IA, Friedman, SN, Garvin, G, Gibson, G, Granton, PV, Holdsworth, DW, Holowka, S, Longstaffe, F, Lywood, V, Nguyen, N, Shaw, R, Trumpour, M, Wade, AD & White, CD. 2011. The ROM/UWO Mummy Project: a microcosm of progress in mummy research. Yearbook of Mummy Studies 1: 127-132.
  - 17) Friedman, SN, Nelson, AJ, Granton, PV, Holdsworth, DW, Chhem, R, & Cunningham, IA. 2011. Dual-energy computed tomography: Automated bone identification in Ancient Egyptian mummies. Yearbook of Mummy Studies 1: 63-68.
  - 16) Webb, E, Thomson, S, Nelson, AJ, White, CD, Koren, G, Rieder, M & Van Uum, S. 2010. Cortisol in archaeological hair as a biomarker for stress. Journal of Archaeological Science 37 (4): 807-812.
  - 15) Martin, RR, Naftel, SJ, Nelson, AJ, Edwards, M, Mithoowani, H & Stakiw, J. 2010 Synchrotron radiation analysis of possible correlations between metal status in human cementum and periodontal disease. Journal of Synchrotron Radiation 17: 263–267.
  - 14) White, CD, Nelson, AJ, Longstaffe, FJ, Grupe, G & Jung, A. 2009. Landscape bioarchaeology at Pacatnamú, Perú: Inferring mobility from  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  values in hair. Journal of Archaeological Science 36: 1527–1537.
  - 13) Cross, A, Collard, M, & Nelson, AJ. 2008. Body segment differences in surface area, skin temperature, and 3D displacement and the estimation of heat balance during locomotion in hominins. PLOS One 3(6) e2464: 1-9.
  - 12) Martin, RR, Arnold, A, Nelson, AJ & Francis, J. 2007. Preliminary investigation of element distribution in the cementum rings of human teeth using time of flight secondary ion mass spectroscopy. The Canadian Journal of Analytical Sciences and Spectroscopy 52(6): 344-352.
  - 11) Martin, RR, Naftel, SJ, Nelson, AJ & Sapp III, WD. 2007. Comparison of the distributions of bromine, lead and zinc in tooth and bone from an ancient Peruvian burial site by X-ray fluorescence. Canadian Journal of Chemistry 85: 831-836.

- 10) Martin, RR, Naftel, SJ, Nelson, AJ, Feilen, AB & Narvaez, A. 2007. Metal distributions in the cementum rings of human teeth: possible depositional chronologies and diagenesis. Journal of Archaeological Science 34: 936-945.
- 9) Martin, RR, Naftel, SJ, Nelson, AJ, Feilen, AB & Narvaez, A. 2004. Synchrotron x-ray fluorescence and trace metals in the cementum rings of human teeth. Journal of Environmental Monitoring 6: 783-786.  
- the Royal Society of Chemistry chose to feature this article as an innovative application of synchrotron XRF
- 8) Conlogue, G, Nelson, AJ & Guillén, S. 2004. The application of radiography to field studies in physical anthropology. Canadian Association of Radiologists Journal 55(4): 254-257
- 7) Gardner, J, Garvin, G, Nelson, AJ, Vascotto, G & Conlogue, G. 2004. Paleoradiology in mummy studies: The Sulman Mummy Project. Canadian Association of Radiologists Journal 55(4): 228-234.
- 6) Kempson, IM, Skinner, WM, Kirkbride, P, Nelson AJ, & Martin, RR. 2003. TOF-SIMS analysis of hair from archaeological remains. European Journal of Mass Spectrometry 9: 589 - 597.
- 5) Thompson, JL & Nelson, AJ. 2000. The place of Neandertals in the evolution of hominid patterns of growth and development. Journal of Human Evolution 38(4): 475-495.
- 4) Conlogue, G & Nelson, AJ. 1999. The use of the Polaroid photographic imaging system to produce radiographic images at a field archaeological site in Perú. Radiologic Technology 70(3): 121-128.
- 3) Nelson, AJ. 1998. Wandering bones: archaeology, forensic science and Moche burial practices. International Journal of Osteoarchaeology 8: 192-212.
- 2) Nelson, AJ and Castillo, LJ. 1997. Huesos a la deriva: tafonomía y tratamiento funerario en entierros Mochica tardío de San José de Moro. Boletín de Pontificia Universidad Católica del Perú 1: 137-163.
- 1) Storm, P & Nelson, AJ. 1992. The many faces of Wadjak Man. Archaeology in Oceania 27: 17-46.

**Book Publications** - career summary

Books (coauthored)	1 accepted for publication
Books (edited)	1 published, 1 accepted for publication
Chapters in edited volumes	18, 1 in press and 5 accepted

**Books:**

- 1) Beckett, R.G., Conlogue, G.J. & Nelson, A.J. (editors). Case Studies for Advances in Paleoimaging and Other Non-Clinical Applications. Taylor & Francis, CRC Press, New York.
- 2) Mackey, CJ & Nelson, AJ. *accepted for publication*. Life, Death and Burial Practices During the Inka Occupation of Farfán, on Perú's North Coast. Andean Past Monograph #2, Department of Anthropology, University of Maine.
- 2) Thompson, JL, Krovitz, G & Nelson, AJ. (editors). 2003. Growth and Development in the Genus *Homo*. Cambridge University Press: Cambridge.

### Chapters in Books:

- 24) Conlogue, G & Nelson, AJ *accepted* Chapter 7. Computed tomography and micro-CT. In: G Conlogue & R Beckett (eds.) Advances in Paleoimaging: Applications for Paleoanthropology, Bioarcheology, and Cultural Artifacts, CRC Press/Taylor & Francis: Westborough, MA.
- 23) Beckett, R & Nelson, AJ *accepted*. Chapter 8 Development of study strategies. Section 1, Ethical considerations. In: G Conlogue & R Beckett (eds.) Advances in Paleoimaging: Applications for Paleoanthropology, Bioarcheology, and Cultural Artifacts, CRC Press/Taylor & Francis: Westborough, MA.
- 22) Nelson, AJ *accepted*. Chapter 9, Section 4, Data management and storage. In: G Conlogue & R Beckett (eds.) Advances in Paleoimaging: Applications for Paleoanthropology, Bioarcheology, and Cultural Artifacts, CRC Press/Taylor & Francis: Westborough, MA.
- 21) Conlogue, G, Giaimo, A, Nelson, AJ. & Lurie, A. *accepted*. Case Study 3: Skeletal Remains. In: G Conlogue & R Beckett (eds.) Advances in Paleoimaging: Applications for Paleoanthropology, Bioarcheology, and Cultural Artifacts, CRC Press/Taylor & Francis: Westborough, MA.
- 20) Nelson, AJ & Kogon, S. *accepted*. Case Study 6: Teeth; Plane radiography (Film) clinical CT and micro-CT. In: G Conlogue & R Beckett (eds.) Advances in Paleoimaging: Applications for Paleoanthropology, Bioarcheology, and Cultural Artifacts, CRC Press/Taylor & Francis: Westborough, MA.
- 19) Ellis, L, Suda, A, Martin, RM, Morris, Z., Moffatt, E, Poulin, J Sobol, H, Boyko, C, Lefebvre & Nelson, AJ. *in press*. Technology for technology's sake: The technical study of Gothic miniature boxwood carvings in the Thomson Collection at the Art Gallery of Ontario. In: M. Sawiki (ed), Advances in Wood Conservation, Springer DE.
- 18) Nelson, A.J. 2019. Mummies, memories and marginalization: the changing social roles of mummies from antiquity to today. In: M.L. Mant & Holland, A.J. (eds.), Bioarchaeology of Marginalized People, pp: 11-32. Academic Press: London.
- 17) Ellis, L, Suda, A, Martin, RM, Moffatt, E, Poulin, J & Nelson, AJ. 2017. The virtual deconstruction of a prayer bead in the Thomson Collection at the Art Gallery of Ontario with micro-CT scanning and advanced 3d analysis software. In: E Wetter & F Scholten (eds.), Prayer-Nuts, Private Devotion and Early Modern Art Collecting, pp: 209-217. Abegg-Siftung: Riggisberg.
- 16) Thompson, JL & Nelson, AJ. 2016. Childhood and patterns of growth in the genus Homo. In: C Meehan & A Crittenden, (eds.), Childhood: Origins, Evolution and Implications, pp: 75-102. University of New Mexico Press/School of American Research: Santa Fe.
- 15) Gerson, AR, Anasasio, C, Crowe, S, Fowler, D, Guo, B, Kennedy, I, Lombi, E, Nico, PS, Marcus, MA, Martin, RR, Naftel, SJ, Nelson, AJ, Paktunc, D, Roberts, JA, Weisener, CG & Werner, ML. 2008. Frontiers in assessing the role of chemical speciation and natural attenuation on the bioavailability of contaminants in the terrestrial environment. In: R Naidu (ed.), Chemical Bioavailability in the Terrestrial Environment, pp: 99-236. Elsevier: Sydney.
- 14) Thompson, JL & Nelson, AJ. 2005. Estimated age at death and sex of Le Moustier 1. In: H Ullrich, (ed.), The Neandertal Adolescent Le Moustier 1 - New Aspects, New Results, pp: 208-222. Staatliche Museen Zu Berlin - Preußischer Kulturbesitz: Berlin.

- 13) Thompson, JL & Nelson, AJ. 2005. The postcranial skeleton of Le Moustier 1. In: H Ullrich (ed.), The Neandertal Adolescent Le Moustier 1 - New Aspects, New Results, pp: 265-281. Staatliche Museen zu Berlin - Preußischer Kulturbesitz: Berlin.
- 12) Nelson, AJ & Thompson, JL 2005. Le Moustier 1 and the interpretation of stages in Neandertal growth and development. In: H Ullrich (ed.), The Neandertal Adolescent Le Moustier 1 - New Aspects, New Results, pp: 328-338. Staatliche Museen Zu Berlin - Preußischer Kulturbesitz: Berlin.
- 11) Thompson, JL, Nelson, AJ & Illerhaus, B. 2003. Le Moustier 1 – Zusammenfassung einer studie. In A Hoffmann (ed.), Le Moustier de Combe Capelle: Die altsteinzeitlichen Funde des Schweizer Archäologen Otto Hauser. Bestandskatalog Band 9, pp: 65-73. Staatliche Museen Zu Berlin - Preußischer Kulturbesitz: Berlin.
- 10) Nelson, AJ & Nelson, C. 2003. In search of the ancient Peruvians: The Pacasmayo Museum Project. In: J Peters & G Grupe (eds.), Deciphering Ancient Bones: The Research Potential of Bioarchaeological Collections. Documenta Archaeobiologiae Yearbook of the State Collection of Anthropology and Palaeoanatomy, München, Germany, pp: 29-47. Verlag M. Leidorf: Rahden/Westf.
- 9) Krovitz, GE, Nelson, AJ & Thompson, JL. 2003. Introduction. In: JL Thompson, G Krovitz & AJ Nelson (eds.), Growth and Development in the Genus *Homo*, pp: 1-11. Cambridge University Press: Cambridge.
- 8) Thompson, JL, Nelson, AJ & Krovitz, GE. 2003. Hominid growth and development: the modern context. In: JL Thompson, G Krovitz & AJ Nelson (eds.), Growth and Development in the Genus *Homo*, pp: 170-187. Cambridge University Press: Cambridge.
- 7) Krovitz, GE, Thompson, JL & Nelson, AJ. 2003. Hominid growth and development from australopithecines to Middle Pleistocene *Homo*. In: JL Thompson, G Krovitz & AJ Nelson (eds.), Growth and Development in the Genus *Homo*, pp: 271-292. Cambridge University Press: Cambridge.
- 6) Nelson, AJ, Krovitz, GE & Thompson, JL. 2003. Hominid growth and development in Upper Pleistocene *Homo*. In: JL Thompson, G Krovitz & AJ Nelson (eds.), Growth and Development in the Genus *Homo*, pp: 412-435. Cambridge University Press: Cambridge.
- 5) Nelson, AJ, Thompson, JL & Krovitz, GE. 2003. Conclusions: putting it all together. In: JL Thompson, G Krovitz & AJ Nelson (eds.), Growth and Development in the Genus *Homo*, pp: 436-445. Cambridge University Press: Cambridge.
- 4) Thompson, JL, Nelson, AJ & Illerhaus, B. 2002. 3-D imaging and traditional morphometric analysis of the adolescent Neandertal from Le Moustier. In: B Mafart & H Delingette (eds.), Three-Dimensional Imaging in Paleoanthropology and Prehistoric Archeology, British Archeological Reports, International Series 1049, pp: 55-61.
- 3) Nelson, AJ & Thompson, JL. 2002. Neandertal adolescent postcranial growth. In N Minugh Purvis & K McNamara (eds.), Human Evolution through Developmental Change, pp: 442-463. The Johns Hopkins University Press: Baltimore.
- 2) Nelson, AJ & Thompson, JL. 1999. Growth and development in Neandertals and other fossil hominids: implications for hominid phylogeny and the evolution of hominid ontogeny. In RD Hoppa & CM Fitzgerald (eds.), Human Growth in the Past: Studies from Bones and Teeth, pp: 88-110. Cambridge University Press: Cambridge.
- 1) Kennedy, GE, Gauld, SC & Nelson, AJ. 1991. Bone thickness in fossil hominids. In: AD Dixon, BG Sarnat & DAN Hoyte (eds.), Fundamentals of Bone Growth: Methodology and Applications, pp: 587-593. CRC Press: Boca Raton.

**Non-Refereed Journal Articles:** (career summary = 7)

- 7) Ordóñez, MP, Beckett, R, Nelson, AJ, Conlogue, G. 2015. Paleoimagen y análisis bioantropológico de la colección Maranga del Museo Jacinto Jijón y Caamaño. Antropologica: Quadernos de Investigación (Revista de la Escuela de Antropología|Pontificia Universidad Católica del Ecuador. No 15.
- 6) Nelson, AJ. 2010. Forward. In Paleoimaging: Field Applications for Cultural Remains and Artifacts. RG Beckett & GJ Conlogue, pp: ix-x. CRC Press: Boca Raton.
- 5) Nelson, AJ 2005. Comment, on Sutter & Cortez, 2005, The origins and roles of the Moche (AD 1-750) human sacrificial victims: A bio-archaeological perspective. Current Anthropology 46: 538-539.
- 4) Nelson, AJ 2004. Comment, on Shimada *et al.* 2004, An integrated analysis of pre-Hispanic mortuary practices: A Middle Sican case study. Current Anthropology 45: 393-394.
- 3) Nelson, AJ, Nelson, CS, Castillo, LJ & Mackey, C. 2000. Osteobiografía de una hilandera precolombina. La mujer detrás de la máscara. Íconos, 4(2), 30-43
- 2) Castillo, LJ, Nelson, AJ, Nelson, CS. 1997. Maquetas Mochicas, San José de Moro. Arkinka, 22, 121-128
- 1) Nelson, AJ. 1995. Sipán, the Moche and the archaeology of Perú. Kewa, 95(3), 2-32.

**Technical Writings:** (career summary 25)

- 25) Nelson, A.J. 2018. Preliminary Report on the CT Scans of the Boonshoft Mummy – Nesiur. Report Prepared for Bill Kennedy, Curator of Anthropology, Boonshoft Museum, Dayton, Ohio.
- 24) Nelson, AJ. 2017. Ta-Kush CT scan summary. Report prepared for Samantha Harris, Collections Manager, Maidstone Museum, Maidstone, Kent.
- 23) Nelson, AJ. 2016. Age estimate for Ta-Kush - the Maidstone Mummy; Preliminary Report. Report prepared for Samantha Harris, Collections Manager, Maidstone Museum, Maidstone, Kent.
- 22) Beckett, R, Nelson, AJ, Conlogue, G & Ordóñez, MP. 2014. Proyecto de investigación “Momias Maranga” - Informe Final: Conclusiones y Resultados. Manuscript on file, Museo Jacinto Jijón y Caamaño- Pontificia Universidad Católica del Ecuador, Quito, Ecuador.
- 21) Wade AD, Abonyi S, Galloway T, Hoppa R, Katzenberg A, Kurki H, Nelson AJ & Roksandic M. 2013. Report of the CAPA/ACAP Tri-Council research funding subcommittee. Canadian Association for Physical Anthropology Newsletter 2013(2):7-8.
- 20) Nelson, AJ, Boston, C, & Morris, Z. 2012. Report of Richmond Materials; Items Provided by London Police Service. Forensic report prepared for the London Police Service.
- 19) Wade AD, Garvin GJ, Williams LJ, Lawson B, Nelson AJ & Tampieri D. 2011. Preliminary report on the CT findings of the human and bird mummies of the Redpath Museum. Redpath Museum Internal Report, pp.1-77.
- 18) Nelson, AJ. 2011. Technical Report. The osteobiography and facial reconstruction of Avion 1 - DND Case Number 5090-25. Report prepared for the Department of National Defence.

- 17) Nelson, AJ. 2009. Análisis osteológico de los entierros del Palacio Ñain–An (ex-Bandelier). Informe prepared for La Unidad, Trujillo, Peru.
- 16) Nelson, AJ. 2008. Preliminary report on the radiological examination of Hetep Bastet. Report prepared for the Galerie de l'Université du Québec à Montréal.
- 15) Nelson, AJ & Spence, MW. 2008. Report on Autopsy AC08-189. Forensic anthropology report prepared for the London Regional Coroner.
- 14) Nelson, AJ. 2008. Preliminary report on the radiographic analysis of three Egyptian mummies. Report prepared for the Royal Ontario Museum.
- 13) Martin, RR, Naftel, S, Nelson, AJ, Kempson, I & Skinner, W. Preliminary synchrotron analysis of Peruvian mummy hair. Advanced Photon Source Activity Report 2002.
- 12) Segura, R, Vega, MdC, & Landa, P. 2002. Recent investigations at the site of *Cajamarquilla*: Advances in the study of Pre-Columbian mortuary practices on the Peruvian Central Coast. Translated from Spanish by AJ Nelson. Report prepared for Teckcominco.
- 11) Nelson, AJ. 2001. Forensic anthropology preliminary report – August 29, 2001 - Sifton Property – West del Bourne & Commissioners Road. Prepared for Peter Timmins, PhD, Archaeologix, Inc.
- 10) Nelson, A.J. 2000. Delhi Burial - physical anthropologist's report. Forensic anthropology report prepared for Peter Timmins, PhD, Ontario Ministry of Citizenship, Culture & Recreation, London, ON Office.
- 9) Castillo, LJ, Mackey, CJ & Nelson, AJ. 1998. Proyecto "Complejo Arqueológico de Moro". Campaña 1997. Informe Preliminar de Investigación Arqueológica. Informe for the Instituto Nacional de Cultura, Perú. 1998.
- 8) Castillo, L.J, Mackey, C.J. and Nelson, A.J. 1997. Proyecto "Complejo Arqueológico de Moro". Campaña 1996. Informe Preliminar de Investigación Arqueológica. Informe for the Instituto Nacional de Cultura, Perú.
- 7) Nelson, AJ and Spence, M. 1996. Report on investigation of Windsor Firepit (Occurrence No. 96-34623). Forensic anthropology report prepared for the London Police Force.
- 6) Nelson, AJ. 1996. The St. Stephen's Burial: Final osteological report, PD6 Watermain Alignment, City of Vaughn, Ontario. Report prepared for D.R. Poulton & Associates, Inc.
- 5) Castillo, LJ, Mackey, CJ & Nelson AJ. 1996. Proyecto "Complejo Arqueológico de Moro". Campaña 1995. Informe Preliminar de Investigación Arqueológica. Informe for the Instituto Nacional de Cultura, Perú.
- 4) Russell, GS, Hudson J, Klug, L & Nelson, AJ. 1994. *Site CA-SDI-603, Accession No. 295*. Collection Catalog verification report, Contract Number 53S899, Department of Transportation, Sacramento, California.
- 3) Russell, GS, Hudson, J, Klug, L & Nelson, AJ. 1994. *Site CA-SBA-1, Accession No. 515*. Collection Catalog verification report, Contract Number 53S899. Department of Transportation, Sacramento, California. 1994.
- 2) Nelson, AJ. 1992. Delaini - Preliminary osteological report on the human skeletal remains from the Wakaia Archaeological Project, Delaini Site. Report prepared for Dr. B. Rechtman, Department of Anthropology, UCLA.
- 1) Nelson, AJ & Zucker, MI. 1991. Sin Cabezas E9-2 burial 1. Case study in paleopathological differential diagnosis. In Reporte Técnico, M. Beaudry-Corbett Ed., report submitted to the Instituto Nacional de Arqueología y Historia de Guatemala.

## Knowledge Mobilization - Presentations

### Career Summary

Category	Career Total
Organization of Scholarly Meetings/Sessions	9
Sessions Chaired	4
Invited Presentations	12
Presentations to Scholarly Meetings – total	164
- papers read	122
- posters	42
Conference Proceedings	7
Contributions to Museum Exhibits	9
Public Lectures	44
TV/Video Productions Featuring My Research	16

#### **Organization of Scholarly Meetings/Sessions:** (career total = 9)

October 2018 - conference co-organizer (with I Colquhoun, A. Waters & J. Stock) - Canadian Association for Physical Anthropologists annual meeting, London, ON.

August 2016 – member scientific committee – 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú.

February 2014 – Single Day SSHRC Regional Event – “Big Data in the SSHRC Disciplines - Data from the Past, Present and Future”, London, ON.

November 2012 – session co-organizer (with D Cooper) – Imaging Applications in Physical Anthropology. Canadian Association for Physical Anthropologists annual meeting, Victoria, BC

October 2004 - conference co-organizer (with M. Spence, C. White & I. Colquhoun) - Canadian Association for Physical Anthropologists annual meeting, London, ON.

October 2004 - workshop co-organizer - (with R Hoppa) - 3D Imaging in Anthropological Research (SSHRC funded), London, ON.

November 2002 - conference co-organizer (with T Topic). 20<sup>th</sup> Annual NE Andean Archaeology and Ethnohistory Meetings, London, ON.

March 2001 - Session co-organizer (with Thompson, JL & Krovitz, G) Patterns of Growth and Development in the Genus *Homo*. American Association of Physical Anthropologists. Kansas City.

October 1997 - conference co-organizer (with M. Spence, C. White & I. Colquhoun) - Canadian Association for Physical Anthropologists annual meeting, London, ON.



**Sessions Chaired:** (career total = 4)

July 2002 – Closing Session - Deciphering Ancient Bones: The Research Potential of Bioarchaeological Collections; International Workshop Celebrating 100 Years of Anthropology in the Collection of Anthropology & Paleoanatomy at the Staatssammlung Für Anthropologie und Paläoanatomie München, Munich, Germany.

November 2001 - Opening Session - 20<sup>th</sup> Annual NE Andean Archaeology and Ethnohistory Meetings.

October 2001 - Hominid Evolution - Canadian Association for Physical Anthropology.

April, 1998 - Naturalism, Evolution and Intentionality Conference, Department of Philosophy, UWO.

November 1997 - Hominid Evolution - Canadian Association for Physical Anthropology.

**Invited Presentations:** (career total = 12)

12) Nelson, AJ. 2018. The mummies of Ancient Peru. Part of: Saleem, S, Nelson, AJ & Conlogue, G. Paleoradiology: Imaging the Past. Invited Workshop Presentation to the Radiological Society of North America, Chicago, IL, November 2018.

11) Nelson, AJ. 2017. Imaging Modalities in Archaeology. Part of: Saleem, S, Nelson, AJ & Conlogue, G. Paleoradiology: Scanning mummies and more. Invited Workshop Presentation to the Radiological Society of North America, Chicago, IL, November 2017.

10) Nelson, AJ. 2017. Bringing the museum to the CT Suite: The paleoimaging of mummies and heritage artifacts. Invited presentation to the Ontario Association of Medical Radiological Sciences Education Day, Kingston, ON, April 2017.

9) Nelson, AJ. 2016. Macro to Micro: The non-destructive radiographic imaging of heritage artifacts. Invited presentation to the symposium “Small Wonders: Gothic Boxwood Miniatures”, Art Gallery of Ontario, Toronto, ON, October 2016.

8) Nelson, AJ. 2016. From case studies to cases of studies: The IMPACT mummy database of CT studies of Egyptian mummies. Invited Presentation to the Bioanthropology Research Institute at Quinnipiac University, Hamden, CT, March 2016.

7) Nelson, AJ. 2015. Mummies, models and metals: the past in three dimensions. Invited presentation to the Be3Dimensional Design Conference, Toronto, ON, October 2015.

6) Nelson, AJ. 2015. Non-destructive imaging in archaeology and bioarchaeology: the future of studying the past. Invited presentation to the Silver Medal Award Ceremony, Department of Anthropology, University of Waterloo, March 2015.

5) Nelson, AJ. 2012. Adaptation, growth and pathology in an Arctic environment: The role of the Sadlermuit Eskimo sample in studies of human adaptation and evolution. Invited presentation to the US and Canadian Association of Pathologists, Vancouver March 2012.

4) Nelson, AJ, Martin, RR & White, CD. 2012. Bioarqueología y espectroscopía; movimiento en los Andes antiguos. Invited presentation to Spectra 2012, Lima, Perú, February 2012.

3) Nelson, A.J. There’s a mummy in the CT suite! Invited plenary presentation to the Ontario Association of Radiological Technologists. April 2010.

2) Nelson, AJ & Nelson, C. In search of the ancient Peruvians: The Pacasmayo Museum Project. Invited paper presented to Deciphering Ancient Bones: The Research Potential of Bioarchaeological Collections; International Workshop Celebrating 100 Years of Anthropology in the Collection of Anthropology & Paleoanatomy at the Staatssammlung Für Anthropologie und Paläoanatomie München, Munich, Germany. July 2002.

- 1) Nelson, A.J. Death is just a phase: The cycle of life on the ancient Peruvian North Coast. Invited presentation to the Brock University Archaeological Society. 2000.

**Presentations to Scholarly Meetings:** (career total = 164; total includes 121 papers read and 43 posters)

- 164) Jewlal, E, Barr, K, Nelson, A., Laird, DW & Willmore, KE Examining the link between phenotypic variation of the skull and variation in development using two mutant mouse models. Poster presented to the Canadian Association for Physical Anthropology, October 2018, London, ON, Canada.
- 163) Nelson, A.J., Knowles, N. & Kusins, J. The skulls of Robert the Bruce: Photogrammetry, artistry and paleopathology. Poster presented to the Canadian Association for Physical Anthropology, October 2018, London, ON, Canada.
- 162) Van Loon, LL, Nelson, AJ & Banerjee, NR Will synchrotron studies unlock the mystery of the invention of coinage? 14<sup>th</sup> International Conference on X-Ray Microscopy (XRM 2018). Saskatoon, SK) August 2018.
- 161) Kozachuk, M.S., McElhone, J.P., Sham, T.K., Martin, R.R., Nelson, A.J., Coulthard, I. (2018) Recovered Reflections: An Electrochemical Study of 19<sup>th</sup> Century Daguerreotypes. Canadian Association for Conservation, June 2018, Kingston, Canada (podium).
- 160) Kozachuk, MS, McElhone. J, Sham. TK, Noël, JJ, Martin, RR & Nelson, AJ. Recovered Reflections: An Electrochemical Study of 19<sup>th</sup> Century Daguerreotypes. 110<sup>st</sup> Canadian Chemistry Conference, Edmonton, AB, May 2018. (podium)
- 159) Nelson, AJ, Harris, S, Saleem, S, Sheikholeslami, C, Garrad, M, Price, C, Ramsey, A, Hadland, M, Gibson, G, Ikram, S, Willmore, K, Han, V, Razvi, H, Dautant, A & Wade, AD. Maidstone EA 493 – A mummified anencephalic fetus from Ancient Egypt. Extraordinary World Congress on Mummy Studies, Santa Cruz, Tenerife, May 2018. (paper)
- 158) Kabyls, V., Nelson, AJ & Anastassiades, A. Queen's University Egyptian Coffin Project: Identification and characterization of a Dynasty 25 'White' coffin using computed tomographic (CT) imaging and instrumental analysis. The Society for the Study of Egyptian Antiquities' Annual Symposium and Scholar Colloquium, Toronto. November 2017. (paper)
- 157) Nelson, AJ, Guillén, S, Bruce, K., Skufis, J, Conlogue, G, Garvin, G, Garcia, B & Smith, D. An osteobiography and differential diagnosis of a young Chachapoya-Inka child from the cloud forest in Leymebamba, Peru. Canadian Association for Physical Anthropology, Edmonton, Canada. October 2017. (poster)
- 156) Nelson, AJ, Guillén, S, Lopes, L, Sajantila, A, Orellana, E, Tejada, J & Williams, J. Maternal Mortality in Ancient Peru: A case study from Ilo, Peru. PAMinSA VII, Arica, Chile. October 2017 (poster).
- 155) Kozachuk MS, Sham TK, Martin, RR, Nelson, AJ & McElhone, J. Reflections of the past: Uncovering the chemical mystery of daguerreotypes. Chemistry Society of Canada, Regina, Canada. June 2017 (paper).
- 154) Kozachuk MS, Sham, TK, Martin, RR, Nelson, AJ, Coulthard, I, & McElhone, J. Refocusing the past: uncovering the chemical mystery of daguerreotypes. 100<sup>th</sup> Canadian Chemistry Conference, Toronto, Canada, May 2017. (paper)

- 153) Nelson, AJ & Wade, AD. The on-line IMPACT radiological mummy database: the quest for standardization in mummy studies. American Association for Physical Anthropology, New Orleans, April 2017. (poster)
- 152) Knowles, NK, Nelson, A, & Ferreira, LM. Computational evaluation of glenoid bone loading using micro-CT. 15<sup>th</sup> Annual Imaging Network Ontario Symposium, London, ON, March 2017. (paper)
- 151) Standish, TE, Zagidulin, D, Ramamurthy, S, Nelson, AJ, Keech, P Noël, J, & Shoesmith, DW. Imaging oxidic and anoxic corrosion of copper-coated carbon steel using x-ray microtomography, UNENE R&D Workshop, Waterloo, ON, December 2016 (poster).
- 150) Standish, TE, Zagidulin, D, Ramamurthy, S, Nelson, AJ, Keech, P & Shoesmith, DW. The influence of copper coatings on the corrosion of carbon steel substrates. PRiME (Pacific Rim Meeting on Electrochemical and Solid-State Science) 2016, Honolulu, HI, October 2016. (paper)
- 149) Willoughby, J, Kirkpatrick, C, Koropatnick, J & Nelson, AJ. Observations on experimentally mummified tumors. Canadian Association for Physical Anthropology, Peterborough ON, October 2016. (paper)
- 148) Wade, AD, Garvin, GJ, Butler, JR, Gelman, N, Moran, G & Nelson, AJ. The curious case of the cat mummy in the nighttime. Canadian Association for Physical Anthropology, Peterborough ON, October 2016. (paper)
- 147) Van Loon, LL, Banerjee, NR, Nelson, AJ, Wartenberg Kagan, U, Barron, KM, Dussubieux, L, Gordon, RA, Woll, AR, Smieska, LM. The early electrum enigma: shedding light on the invention of coinage. Synchrotron Radiation and Neutrons in Art and Archaeology, Chicago, IL, September 2016. (paper)
- 146) Kozachuk, MS, Sham, TK, Martin, RR, Nelson, AJ, & Coulthard, I. Reflections of the past: uncovering the chemical mystery of daguerreotypes. Synchrotron Radiation and Neutrons in Art and Archaeology, Chicago, IL, September 2016. (poster)
- 145) Lohman, U, Beckett, R & Nelson, AJ. A modern cultural mummification. Gamtasu's final wish and the smoked body tradition of the Anga of Papua New Guinea. 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú, August 2016. (paper)
- 144) Willoughby, J, Kirkpatrick, C, Koropatnick, J & Nelson, AJ. Experimental mummification project: CT analysis of cancer in mummified material. 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú, August 2016. (paper)  
 - this paper was highlighted by Science News (<http://www.sciencemag.org/news/2016/08/study-ancient-cancer-scientist-made-her-own-mummies>) and Popular Science (<http://www.popsoci.com/how-to-study-ancient-cancers-by-mummifying-mice>)
- 143) Nelson, AJ, Guillén, S, Conlogue, G, Gonzalez, R, Zadori, P & Bravo, A. Autopsy of a tuberculoid Chachapoya-Inca mummy: implications for differential diagnosis. 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú, August 2016 (paper)
- 142) Nelson, AJ, Beckett, R, Conlogue, G, Garvin, G, Saleem, S, Natale, G, Caramella, D & Wade, A. Diagnosis by consensus in Pisa: a case study I interdisciplinary interpretation of mummified pathological conditions. 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú, August 2016 (paper)
- 141) Lohmann, U, Beckett, R, Nelson, AJ, Piombino-Mascalì, D & Lywood, V. See the Face: a living history of the cultural/spiritual implications of mummification practices among the

- Ibaloy of the Kabayan region of the Philippines and the Anga of Papua New Guinea. 9<sup>th</sup> World Congress on Mummy Studies, Lima, Perú, August 2016 (paper)
- 140) Fleming, RLF, McCausland, PJA & Nelson, AJ. X-ray vision: *In situ* X-ray CT imaging and X-ray diffraction of the Tucson iron meteorite mineralogy and textures. Geological Association of Canada - Mineralogical Association of Canada, Annual meeting, Whitehorse, June 2016. (paper)
- 139) Standish, TE, Zagidulin, D, Ramamurthy, S, Nelson, A, Keech, P & Shoesmith, DW. The evolution of galvanic corrosion on copper-coated carbon steel determined by in-situ x-ray microtomography. Corrosion – Aqueous Gordon Research Conference, New London, NH, July 2016 (poster).
- 138) Kozachuk, M, Martin, RR, Nelson, AJ & Sham, TK. Within the lines of time: uncovering the chemistry of lead in dentine samples from the Franklin Expedition. 99th Canadian Chemistry Conference, Halifax, NS, May 2016. (paper)
- 137) Standish, TE, Zagidulin, D, Ramamurthy, S, Nelson, A, Keech, P & Shoesmith, DW. Galvanic corrosion of copper-coated carbon steel for used nuclear fuel containers. 6th International Workshop on Long-Term Prediction of Corrosion Damage in Nuclear Waste Systems, Toronto, ON, May 2016 (paper).
- 136) Kozachuk, M, Sham, TK, Martin, RR, Nelson, AJ. Reflections of the past: Uncovering the chemical mystery of daguerreotypes. 99th Canadian Chemistry Conference, Halifax, NS, May 2016. (paper)
- 135) Standish, TE, Zagidulin, D, Ramamurthy, S, Nelson, AJ, Keech, P, & Shoesmith, D. The influence of copper coatings on the corrosion of carbon steel substrates. Pacific Rim Meeting of Electrical and Solid State Science, Honolulu, October 2016. (paper)
- 134) Ellis, L, Dandridge, P, Suda, A, Boehm, B, Moffatt, E, Poulin, J & Nelson, AJ. The study of boxwood prayer beads and miniature altars from the Thomson Collection at the Art Gallery of Ontario and the Metropolitan Museum of Art. American Institute of Conservation, Montreal, May 2016. (paper)
- 133) Swanston, TM, Bewer, B, Keenleyside, A, Nelson, AJ, Martin, RR, Stenton, DR, Varney, T, Coulthard, I, Pushie, MJ & Cooper, DML. Lead uptake in the 19th century: High resolution imaging uncovers details associated with the Franklin Expedition and contemporary populations. American Association for Physical Anthropologists, St Louis, April 2016. (paper)
- 132) Standish TE, Zagidulin D, Ramamurthy S, Nelson AJ, Keech P & Shoesmith SW. Tracking the galvanic corrosion of copper-coated carbon steel using in situ X-ray microtomography. NACE Corrosion 2016, Vancouver BC, March 2016. (poster)
- 131) Standish TE, Zagidulin D, Ramamurthy S, Nelson AJ, Keech P & Shoesmith SW. Galvanic corrosion of copper-coated carbon steel for used nuclear fuel containers. NACE Northern Eastern Area Conference, Ottawa, ON, December 2015 (poster)  
- this poster won the 1<sup>st</sup> prize in the student poster competition.
- 130) Swanston, T, Bewer, B, Keenleyside, A, Nelson, AJ, Martin, RR, Stenton, D, Varney, T, Coulthard, I, Pushie MJ, & Cooper DML. Unravelling the evidence for lead exposure during the Franklin expedition. Canadian Association for Physical Anthropology, Winnipeg, MB, October 2015. (paper)
- 129) Willoughby J, Nelson AJ, & Garvin G. New checklist for the radiological identification of neoplastic disease in mummies – Check! Canadian Association for Physical Anthropology, Winnipeg, MB, October 2015. (paper)

- 128) Nelson AJ, Van Loon L, Wartenberg U, Barron K, MacLachlan B, & Banerjee N. Bubbles in the bullion; the microCT analysis of ancient coins. Tomography for Scientific Advancement Symposium, Manchester, UK, September 2015 (paper)
- 127) Wade AD, Garvin GJ, Butler JR, Moran G, & Nelson AJ. 2015. Multimodal characterisation of mummified thrombi and haematomata. Paleopathology Association, St. Louis, April 2015 (poster)
- 126) Wade AD, Beckett RG, Conlogue GJ, Garvin GJ, Saleem SN, Natale G, Caramella D, & Nelson AJ. 2015. Diagnosis by consensus: Interpreting mummified pathological conditions. American Association of Physical Anthropology, St. Louis, April 2015 (paper)
- 125) Martin R, Nelson, AJ, Kozachuk, M, Macfie, S, Biesinger, M, Walzak, MJ, Sham, TK, Ellis, L & Suda, A. Surface analysis of cultural heritage objects: Science meets arts and social science. Faculty of Science, Western University, Interdisciplinary Forum, London, ON, December 2014 (poster)
- 124) Tennant, H & Nelson, AJ. 2014. The assessment of osteoarthritis in mummies: promise and challenges. Canadian Association for Physical Anthropology, Frederickton, NB, November 2014 (poster)
- 123) Ellis, L, Suda, A, Nelson, AJ, Martin, R, Morris Z, Moffatt, E, Poulin, J, Newman R, Sobol, H & Lefebvre, I. Investigating miniature masterpieces: The technical study of boxwood prayer beads in the Thomson Collection at the Art Gallery of Ontario. ICOM-CC conference “Heritage Wood: Research and Conservation in the 21st Century”, Warsaw, Poland, October 2013.
- 122) Nelson, AJ & Wade, AD. The IMPACT mummy radiological database – Going live. 8<sup>th</sup> World Congress on Mummy Studies, Rio de Janeiro, August 2013 (poster)
- 121) Beckett, RG, Conlogue, G, Ordóñez, MP & Nelson, AJ. The paleoimaging and bioarchaeological analysis of the Pre-Inca mummies of the Maranga culture: a systems approach to museum bioarchaeology studies. 8<sup>th</sup> World Congress on Mummy Studies, Rio de Janeiro, August 2013 (paper)
- 120) Nelson, AJ, Beckett, RG, Conlogue, G & Ordóñez, MP. The bioarchaeological analysis of the Jijón y Caamaño collection of mummies from Maranga, Perú. 8<sup>th</sup> World Congress on Mummy Studies, Rio de Janeiro, August 2013 (paper)
- 119) Wade, AD & Nelson, AJ. Radiological stigmata of the Ancient Egyptian embalming process. 8<sup>th</sup> World Congress on Mummy Studies, Rio de Janeiro, August 2013 (paper)
- 118) Wade, AD, Lywood, V, Ewanchyna, M & Nelson, AJ. Mummy blogging: projects in public engagement and citizen science. 8<sup>th</sup> World Congress on Mummy Studies, Rio de Janeiro, August 2013 (paper)
- 117) Willmon, R, Nelson, AJ, Shkrum, M & Spence, M. 3D micro-CT analysis of craniocervical injuries caused by judicial hanging. Canadian Association for Physical Anthropology, Victoria BC, November 2012 (poster)
- 116) Clegg, L, White, C, Longstaffe, F & Nelson, AJ. A novel application of isotope analysis: the identification of Canada’s missing soldiers. Canadian Association for Physical Anthropology, Victoria BC, November 2012. (paper)
- 115) Wade, AD, Lawson, B, Nelson, AJ & Tampieri, D. An abdominal incision plate for a transperineal evisceration: Embalming archaism in the late Roman Period. Canadian Association for Physical Anthropology, Victoria BC, November 2012. (paper)
- 114) Nelson, AJ, Butler, JR, Garvin, G, Gelman, N, Moran, G, Wade, A & Morris, Z. Non-destructive multimodal imaging of the first 8 years of the mummification process – the

- afterlife of “Yes” the cat. Canadian Association for Physical Anthropology, Victoria BC, November 2012. (paper)
- 113) Ellis, L, Martin, R, Moffatt, E, Morris, Z, Nelson, AJ & Newman, R. Prayer beads in the Thomson Collection at the Art Gallery of Ontario: materials and construction. Prayer Nuts, Private Devotion and Early Modern Art Collecting, International Colloquium, Abegg-Stiftung, Riggisberg, Switzerland, September 2012. (paper)
- 112) Wade, AD & Nelson, AJ. The Egyptian mummification tradition: Classical stereotypes and medical imaging. Society for the Study of Egyptian Antiquities, Toronto, ON, November 2011. (paper)
- 111) Lywood, V & Nelson, AJ. The Face of the Mummy - phenotypic variability among facial reconstructions of Ancient Egyptian Mummies. Canadian Association for Physical Anthropology, Montreal, October 2011 (poster)
- 110) Nelson, AJ, White, C & Longstaffe, F. Iconography and isotopes: Evidence of a terrestrial-marine shift in Late Intermediate Period diet in Northern Perú. Canadian Association for Physical Anthropology, Montreal, October 2011 (paper)
- 109) Wade, AD, Ikram, S, Conlogue, GJ, Beckett, RG, Nelson, AJ & Colten, R. Backroom treasures: CT scanning of two ibis mummies from the Peabody Museum Collection. World Congress on Mummy Studies, San Diego, June 2011. (poster)
- 108) Nelson, AJ, Lywood, V & Beckett, RG. Facial reconstruction of an Anga mummy. World Congress on Mummy Studies, San Diego, June 2011. (poster)
- 107) Nelson, AJ & Beckett, RG. The meaning of mummification among the Anga of the Aseki Region of Papua New Guinea: A tradition in transition. World Congress on Mummy Studies, San Diego, June 2011. (paper)
- 106) Beckett, RG & Nelson AJ. Scientific exploration of the Smoked Body Mummification practice of the Anga of Koke Village, Papua New Guinea. World Congress on Mummy Studies, San Diego, June 2011. (paper)
- 105) Nelson AJ & Beckett, RG. The warrior ways of the Anga: trauma and artifact analysis. World Congress on Mummy Studies, San Diego, June 2011. (paper)
- 104) Beckett, RG & Nelson AJ. Assessment of the restoration of the Smoked Body of Moimango, former clan leader, warrior, and shaman of the Anga of Koke Village, Papua New Guinea. World Congress on Mummy Studies, San Diego, June 2011. (paper)
- 103) Nelson, AJ, Wade, AD & Garvin, G. IMPACT – A PACS based collaborative mummy database project. World Congress on Mummy Studies, San Diego, June 2011. (paper)
- 102) Wade, AD & Nelson, AJ. Hearts and minds: Excerebration and evisceration in the Egyptian mummification tradition. World Congress on Mummy Studies, San Diego, June 2011. (paper)  
– this paper was highlighted in Science 333:403, July 22, 2011)
- 101) Nguyen, N., Nelson, AJ & Wilson, TD. Computer visualizations: The influence of spatial ability, depth cues, and interactivity on learning visuospatial information. Southwestern Ontario Neuroscience Association, London, ON, April 2011 (paper)
- 100) Wade AD, Nelson AJ. 2011. Heart treatment in ancient Egyptian mummification. American Association of Physical Anthropology, Minneapolis, MN, April 2011 (poster)
- 90) Wade AD, Nelson AJ. 2011. Radiological study of body cavity treatment in ancient Egyptian mummification. North American Paleopathology Association, Minneapolis, MN, April 2011. (paper)

- 89) Beckett, RG & Nelson, AJ. Evidence of tribal warfare among the Anga of Papua New Guinea – trauma patterns. North American Paleopathology Association, Minneapolis, MN, April 2011. (poster)
- 88) Nelson, AJ & Mackey, C. A reanalysis of the Avispas burial mound at Chan Chan. Society for American Archaeology, Sacramento, CA, April 2011. (paper)
- 87) Nelson, AJ & Wade, AD. IMPACT - A Collaborative Mummy Database Project. Canadian Association for Physical Anthropology, Saskatoon, SK, October 2010. (paper)
- 86) Wade, AD & Nelson, AJ. Heart treatment in ancient Egyptian mummification. Canadian Association for Physical Anthropology, Saskatoon, SK, October 2010. (poster)
- 85) Lywood V, Nelson AJ, Wade AD, Nguyen N, Friedman SN, Granton PV, Cunningham IA, Mahoney G & M Ewanchyna. Hetep Bastet: Dual energy segmentation techniques, rapid prototype skull models and forensic facial approximation reveal the faces of UQAM's Egyptian Mummy. Canadian Association for Physical Anthropology, Saskatoon, SK, October 2010. (poster)
- 84) Nelson, AJ, Lywood, V & Beckett, G. Facial reconstruction of an Anga mummy. Canadian Association for Physical Anthropology, Saskatoon, SK, October 2010. (poster)
- 83) Martin, RR, Naftel, S, Stakiw, J & Nelson, AJ. Uses of synchrotron radiation in anthropology and dentistry. Chemical Society of Canada Annual Meeting, June 2010. (paper)
- 82) Wade, AD, Nelson, AJ & Garvin, GJ. Another hole in the head? Brain treatment in ancient Egyptian mummies! American Association for Physical Anthropologists, Albuquerque, NM, April 2010. (poster)
- 81) Bleuze, MM & Nelson, AJ. Cross-sectional geometries in Plio-Pleistocene hominins and their relevance to taxonomic assignments. American Association for Physical Anthropologists, Albuquerque, NM, April 2010. (poster)
- 80) Nguyen, N, Nelson, AJ, & Wilson, T. Evaluation of computer visualizations developed for anatomy education. American Association of Anatomists. Federation of American Societies of Experimental Biology (FASEB), Anaheim, CA, April 2010. (poster)
- 79) Nelson, AJ, Wade AD, Hibbert, R, MacDonald, B, Donaldson, M, Chatelain, R, Nguyen, N, Lywood, V, Gibson, G, Trumpour, M, Friedman, SN, Granton, PV, Morgan, JA, Holdsworth, DW & Cunningham, IA. The UQAM Mummy – The use of non-destructive imaging to reconstruct an ancient osteobiography and to document modern malfeasance. Canadian Association for Physical Anthropologists, Vancouver, BC, November 2009. (poster)
- 78) Webb, EC, Thomson, S, Nelson, AJ, White, C., Koren, G, Rieder, M & Van Uum, S. Analysis of endogenous cortisol in archaeological human hair. Canadian Association for Physical Anthropologists, Vancouver, BC, November 2009. (paper)
- 77) Nguyen, N, Nelson, AJ & Wilson, TD. Determining optimal learning conditions for acquiring spatial 3D information using computer-based anatomical reconstructions. Federation of American Societies for Experimental Biology, New Orleans, LA, April 2009. (poster)
- 76) Dolphin, AE, Nelson, AJ, Martin, RR & Naftel, SJ. Investigating the use of Bromine as a palaeodietary indicator. American Association for Physical Anthropologists, Chicago, IL, April 2009. (paper)

- 75) Friedman, SN, Nelson, AJ, Granton, PV, Holdsworth, DW, Chhem, R & Cunningham, IA. Dual energy computed tomography automated bone identification in ancient Egyptian mummies. 1<sup>st</sup> Bolzano Congress on Mummy Studies, Bolzano Italy, March 2009. (paper)
- 74) Guillén, S, Nelson, AJ, Conlogue, G, Beckett, R, Sosa, J & Topic, J. Three new mummies from Huamachuco, Perú: A new location for the pattern of mummification demonstrated at Laguna de los Cóndores, Perú. 1<sup>st</sup> Bolzano Congress on Mummy Studies, Bolzano Italy, March 2009. (paper)
- 73) Nelson, AJ, Chhem, R, Cunningham, IA, Friedman, SN, Garvin, G, Gibson, G, Granton, PV, Holdsworth, DW, Holowka, S, Longstaffe, F, Lywood, V, Nguyen, N, Shaw, R, Trumpour, M, Wade, AD & White, CD. 2009. The ROM / UWO Mummy Project: A microcosm of progress in mummy research, 1<sup>st</sup> Bolzano Congress on Mummy Studies, Bolzano Italy, March 2009. (poster)
- 72) Boston, CE, Short, L, Nelson, AJ & Conlogue, G. 2008. Changes in the growth and development of the face as related to artificial cranial modification: A cephalometric analysis. Canadian Association for Physical Anthropologists, Hamilton, ON, November 2008. (paper)
- 71) Friedman, SN, Nelson, AJ, Granton, P, Wade, AD, Holdsworth, DW, Krasinski, A, Parraga, GE, Chhem, R & Cunningham, IA. 2008. Dual-energy computed tomography imaging of an Egyptian mummy. Canadian Association for Physical Anthropologists, Hamilton, ON, November 2008. (paper)
- 70) Maxwell, J, White, CD, Nelson, AJ, Holdsworth, DW & Chhem, R. 2008. An analysis of cribra orbitalia in Maya skeletal materials using micro-computed tomography as an investigative tool. Canadian Association for Physical Anthropologists, Hamilton, ON, November 2008. (paper)
- 69) Nelson, AJ, Holowka, S, Allan, G, Castle, M, Chhem, R, Cunningham, IA, Ewanchyna, M, Friedman, SN, Garvin, G, Gibson, G, Granton, PV, Kogon, S, Longstaffe, F, Lywood, V, Nguyen, N, Romagnoli, C, Shaw, R, Trumpour, M, Wade, AD, White, CD, & Wilson, T. 2008. The ROM Mummy Project – 30+ years of progress. Canadian Association for Physical Anthropologists, Hamilton, ON, November 2008. (paper)
- 68) Cross, A, Collard, M, Nelson, AJ. 2008. Hyper polar or hyperbole: Revisiting Neandertal limb proportions. Annual Meeting of the Paleoanthropology Society, Vancouver, BC, April 2008. (paper)
- 67) Shaughnessy, R, White, C, Longstaffe, F & Nelson, AJ. Isotopic evidence for the social economy of textile production in Ancient Perú. Society for American Archaeology, Vancouver, BC, March 2008. (paper)
- 66) Wade, A, Nelson, AJ, Garvin, G, & Holdsworth, D. Assessment of human trabecular architecture in the pubis by three radiographic modalities. Canadian Association for Physical Anthropology, Banff, AB, November 2007. (poster)
- 65) Nelson, AJ, Demondion, X, Clegg, L, Rogers, J, Parnes, L, Kruithof, S, Cardell Corbett, C, & Matheson, C Avion #1: The osteobiography of a World War I soldier. Canadian Association for Physical Anthropology, Banff, AB, November 2007, (poster)
- 64) Nelson, AJ, White, CD, Thomson, S, Rieder, M, Koren, G. & Van Uum, S. The recovery of corticosteroids from hair from archaeological contexts in Egypt and the Americas. North American Paleopathology Association, Durham, NC, March 2007. (paper)



- 63) Nelson, AJ, Conlogue, G, Beckett, R, Posh, J, Chhem, R, Wright, E & Rogers, J. Multimodal analyses of variability in transnasal craniotomy lesions in Egyptian mummies. North American Paleopathology Association, Durham, NC, March 2007. (poster)
- 62) McErlain, DD, Chhem, RK, Granton, P, Leung, A, Nelson, AJ, White, CD & Holdsworth, DW. Micro-computed tomography of a 3200-year-old Egyptian mummy brain. VI World Congress on Mummy Studies, Lanzarote, Spain, February 2007. (paper)
- 61) Guillén, S, Nelson, AJ, Conlogue, G & Beckett, R. Radiographic and endoscopic evaluation of methodological variations and cranial vault developmental anomalies among Peruvian subadult mummies and skeletal material exhibiting cultural cranial modification. VI World Congress on Mummy Studies, Lanzarote, Spain, February 2007. (poster)
- 60) Beauchesne, P, Colquhoun, I, Cross, A, Longstaffe, F, Marciano, L, Metcalf, J, Nelson, AJ, Pawlowski, A, Wheeler, S, White, CD & Williams, L. The Lady Hudson Project. VI World Congress on Mummy Studies, Lanzarote, Spain, February 2007. (poster)
- 59) Nelson, AJ, White, CD, Thomson, S, Rieder, M, Koren, G. & Van Uum, S. The recovery of corticosteroids from hair from archaeological contexts in Egypt and the Americas. VI World Congress on Mummy Studies, Lanzarote, Spain, February 2007. (paper)
- 58) White, CD, Nelson, AJ, & Longstaffe, FJ. Long- and short-term dietary change as indicated by isotopic analysis of tissues from Pacatnamú, Perú. VI World Congress on Mummy Studies, Lanzarote, Spain, February 2007. (paper)
- 57) Maxwell, J, Chhem, R, White, C, Nelson, AJ. A radiological critique of scurvy diagnoses in bioarchaeological samples. Canadian Association for Physical Anthropology, Peterborough, ON, November 2006. (paper)
- 56) Spigelski, SA, Topic, J, Topic, T & Nelson, AJ. Human sacrifice: a bioarchaeological corroboration. Canadian Association for Physical Anthropology, Peterborough, ON, November 2006. (paper)
- 55) Shaughnessy, R, White, C, Longstaffe, F and Nelson, AJ. Textiles as indicators of social economy in pre-Spanish Perú: isotopic analysis of camelid fibre (llama, alpaca) to determine source of fibre. Textile Narratives and Conversations: 10th Biennial Symposium of the Textile Society of America, Toronto, ON, October 2006. (paper)
- 54) Martin, RR & Nelson, AJ. Thinking outside the box: graduate teaching in chemistry and anthropology. Canadian Chemistry Conference, Halifax, NS, June 2006. (paper)
- 53) Holler, T, Wright, ED, Chhem, R & Nelson AJ. Lady Hudson: A case of transnasal craniotomy in Ancient Egypt. Canadian Society of Otolaryngology-Head and Neck Surgery, May 2006. (poster)
- 52) Nelson, AJ, White, CD & Longstaffe, FJ. Ancient Travelers from Pacatnamú, Perú: evidence from phosphate oxygen-isotope ratios in human tissues. Canadian Association for Physical Anthropology, Winnipeg, MB, November 2005. (paper)
- 51) Martin, RR, Naftel, SJ & Nelson, AJ. Shedding synchrotron light on the past: Trace elements and structure of the cementum rings in teeth from the presumed last Inca governor of Túcume. Biometals Workshop, University of Saskatchewan, May 2005. (paper)
- 50) White, CD, Nelson, AJ & Longstaffe, FJ. Peripatetic people from Pacatnamú, Perú: Paleodietary evidence from hair. American Association of Physical Anthropologists, April 2005. (paper)
- 49) Cross, A & Nelson, AJ. A test of models used for estimating total body surface area in hominins. Annual Meeting of the Paleoanthropology Society, Milwaukee, WI, April 2005. (paper)

- 48) Naftel, SJ, Martin, RR, Nelson, AJ, Feilen, AB & Narvaéz, A. Trace zinc and lead distributions in the cementum rings of human teeth. Advanced Photon Source Users Meeting, Argonne, IL, November 2004. (paper)
- 47) Nelson, AJ & Vascotto, G. Overview of the UWO virtual mummy project. 3D Imaging in Anthropological Research Workshop, London, ON, October 2004. (paper)
- 46) Nelson, AJ & the UWO Mummy Project Team (30 co-authors). Lady Hudson and mummy studies at UWO. Canadian Association for Physical Anthropology, London, ON, October 2004. (poster)
- 45) Naftel, SJ, Nelson, AJ, Martin, RR, Feilen, AB & Narvaéz, A. The detection of lead by micro x-ray fluorescence of cementum in human teeth derived from archaeological contexts - what might we learn? Canadian Association for Physical Anthropology, London, ON, October 2004. (paper)
- 44) Knopf, GK & Nelson, AJ. Portable 3D shape measurement system for archaeological field work. International Society for Optical Engineering, Optics East 2004 conference, Denver, CO, October 2004. (paper)
- 43) Martin, RR, Naftel, SJ, Skinner, WM, Kempson, I, Nelson, A. & Feilen, A. Synchrotron radiation and trace metals in human teeth. Canadian Society for Chemistry, June 2004. (paper)
- 42) Martin, RR, Naftel, SJ, Skinner, WM, Kempson, I, Nelson, AJ & Feilen, A. Trace metals in the acellular cementum rings of human mummy teeth. Advanced Photon Source Users Meeting, Argonne, IL, May 2004. (paper)
- 41) Conlogue, G, Bravo, AJ, Guillén, S & Nelson, AJ. Phantom findings: A comparison between autopsy and radiographic data. North American Paleopathology Association, Tampa, FL, April 2004. (paper)
- 40) Nelson, AJ, Kruithof, S, Garvin, G, Murray, NR, Vascotto, G, Withers, E, Neave, T, Benson, D & Nelson, C. Virtual representation of an Egyptian Mummy: Problems and promises. Canadian Association for Physical Anthropology, Edmonton, AB, October 2003. (paper)
- 39) Naftel, SJ, Nelson, AJ, Martin, RR, White, C, Flemming, R, Kempson, I, Skinner, B, Francis, J & Guillén, S. Toys 'r Us – The elemental analysis of human hair from archaeological contexts in Perú. Canadian Association for Physical Anthropology, Edmonton, AB, October 2003. (paper)
- 38) Johnson, J, Paulaharju, L & Nelson, AJ. Anthropology uncovered: Bones and beyond – An anthropological outreach program. Canadian Association for Physical Anthropology, Edmonton, AB, October 2003. (poster)
- 37) Kempson IM, Skinner WM, Kirkbride P, Nelson AJ, Martin RR. ToF-SIMS analysis of hair from archaeological remains. 19th Australian and New Zealand Society for Mass Spectrometry Conference, Lorne, Australia, February 2003.  
- won award for best poster
- 36) Toyne, JM, Nelson, AJ, Narvaéz Vargas, A & Delgado Elias, B. Mummies, the media and science: the unwrapping of an Inca mummy from Túcume, Perú. Canadian Association for Physical Anthropology, Ottawa, ON, October 2002. (paper)
- 35) Martin, RI, Nelson, AJ, Beisinger, M, Naftel, SJ, Kempson, IM & Skinner, WM. Mechanisms for the accumulation of metals in human hair from an archaeological context: studies using ultra-trace analysis. Canadian Association for Physical Anthropology, Ottawa, ON, October 2002. (paper)

- 34) Nelson, AJ, Cordy-Collins, A, Conlogue, G, Beckett, R, Garvin, G, Holdsworth, D & Ford, N. Radiographic and endoscopic analyses of the giants from Dos Cabezas, Perú. 14<sup>th</sup> Biennial European Meeting of the Paleopathology Association, Coimbra, Portugal, August 2002. (paper)
- 33) Nelson, AJ & Nelson, C. Gigantism and the individuals from Dos Cabezas, Perú. 14<sup>th</sup> Biennial European Meeting of the Paleopathology Association, Coimbra, Portugal, August 2002. (paper)
- 32) Nelson, AJ, Martin, R, Biesinger, MC, Naftel, SJ, Kempson, IM, Skinner, WM, Jones, KW. Trace element analysis of human hair from the Precolumbian site of Pacatnamú, Perú: An exploration of biogenic and diagenetic signals. North American Paleopathology Association, Buffalo, NY, 2002. (poster)
- 31) Nelson, AJ, Toyne, JM, Neave, T, Conlogue, G, Beckett, R, Garvin, G & Nelson, C. The Sulman Mummy: Prince, princess or pauper? North American Paleopathology Association, Buffalo, NY, 2002. (paper)
- 30) Toyne, JM, Narvaéz, A, Delgado, B & Nelson, AJ. Bioarchaeological analysis of the skeletal remains of the Inka weaving women of Túcume, Lambayeque, Perú. NE Andean Archaeology and Ethnohistory Meetings, London, ON, 2001. (paper)
- 29) Nelson, AJ. The anthropometry/osteology interface: body size and form in Precolumbian populations on the North Coast of Perú. Canadian Association for Physical Anthropology, Winnipeg, MB, October 2001. (paper)
- 28) Cordy-Collins, A, Conlogue, G, Garvin, G, Nelson, AJ, Toyne, JM & Holdsworth, D. Radiographic and paleopathologic diagnosis of A52 T1 B1 (an Ancient Peruvian Giant). Paleopathology Association, Kansas City, MO, March 2001. (poster)
- 27) Thompson, JL & Nelson, AJ. Relative postcranial and cranial growth in Neandertals and modern humans. American Association of Physical Anthropologists, Kansas City, MO, April 2001. (paper)
- 26) Nelson, AJ, Wang, J & Hegele, RA. Ancient DNA from the Peruvian North Coast. Canadian Association for Physical Anthropology, Burlington, ON, October 2000. (paper)
- 25) Nelson, AJ, Lichtenfeld, MJ, Conlogue, G, Toyne, JM & Pool, S. Cranial modification in the Jequetepeque Valley. NE Andean Archaeology and Ethnohistory Meetings, Hanover, ME, October 2000. (paper)
- 24) Nelson, AJ & Thompson, JL. Ontogeny of limb robusticity in the Upper Pleistocene of Europe. American Association of Physical Anthropologists, San Antonio, TX, April 2000 (paper)
- 23) Nelson, AJ, Conlogue, G, Hennessy, W & Gauld, S. A preliminary study to determine the most suitable radiographic projection to document intentional cranial deformation. Paleopathology Association, Columbus, OH, April 1999. (poster)
- 22) Thompson, JL & Nelson, AJ. Le Moustier 1, limb proportions and the ontogeny of the Neandertal form. Paleoanthropology Society, Columbus, OH, April 1999 (paper)
- 21) Nelson, AJ & Thompson, JL. The evolution of modern human ontogeny: evidence from the Upper Pleistocene. 4th International Congress for the Study of Human Paleontology, Sun City South Africa, 1998. (paper)
- 20) Conlogue, G and Nelson, AJ. The use of Polaroid photographic imagery systems to produce radiographic images at a field site in Perú. Paleopathology Association, Salt Lake City, UT, April 1998. (paper)

- 19) Nelson, AJ & Conlogue, G. Field radiology in archaeology: penetrating the problems and illuminating research in osteology. Canadian Association for Physical Anthropology, London, ON, October 1997. (paper)
- 18) Thompson, JL & Nelson, AJ. The post-crania of Le Moustier 1 - Neandertal features and implications for Neandertal ontogeny. Canadian Association for Physical Anthropology, London, ON, October 1997. (paper)
- 17) Thompson, JL & Nelson, AJ. Relative postcranial development of Neandertals. Paleoanthropology Society, St. Louis, MO, 1997. (paper)
- 16) Nelson, AJ & Mackey, CJ. Wandering bones - secondary burial in the Moche. Institute of Andean Studies, Berkeley, CA, December 1997. (paper)
- 15) Nelson, AJ. Skeletons and society in the Moche times: bioarchaeology at San José de Moro, Perú. Canadian Association for Physical Anthropology, Kingston, ON, October 1996. (paper)
- 14) Nelson, AJ, Mackey, CJ & Castillo, LJ. Bottles, bones and buildings: cultural dynamics at the site of San José de Moro, Perú. Northeastern Andean Archaeology and Ethnohistory, Philadelphia, PA, October 1996. (paper)
- 13) Nelson, AJ, Castillo, LJ & Mackey, CJ. El Complejo de San Josú de Moro - 1995 Season, Jequetepeque Valley, Perú. Society for American Archaeologists, New Orleans, MN, April 1996. (paper)
- 12) Nelson, AJ. Taxonomic traits in the post-cranium of *Homo erectus*. Canadian Association Physical Anthropology, Windsor, ON, October 1995. (paper)
- 11) Nelson, AJ. Identification of *Homo erectus*. Canadian Association for Physical Anthropology, Windsor, ON, October 1995. (paper)
- 10) Gauld, SC, Nelson, AJ, Austin, JK & Mai, LL. Body weight estimation in Pleistocene *Homo* and the evolution of hominid encephalization. American Association of Physical Anthropologists, Oakland, CA, April 1995. (paper)
- 9) Gauld, SC, Nelson, AJ & Foley, A. Body weight estimation in Indonesian fossil hominids. Indonesian Society for Medical Paleontology, Yogyakarta, Indonesia, 1994. (paper)
- 8) Nelson, AJ & Gauld, SC. Covariance relationship between measures of cranial and post-cranial bone thickness and body mass. American Association of Physical Anthropologists, Denver, CO, April 1994. (paper)
- 7) Austin, AJ, Nelson, AJ, Zucker, MI & Keen, B. A test of models for the estimation of cross-sectional geometric parameters of the human tibia. American Association of Physical Anthropologists, Denver, CO, April 1994. (paper)
- 6) Mai, LL, Gauld, SC, Nelson, AJ, Austin, JK & Profant, L. Evolutionary context of hominid body mass prediction models. American Association of Physical Anthropologists, Toronto, ON, April 1993. (paper)
- 5) Nelson, AJ, Gauld, SC & Austin, JK. Models of fossil hominid body mass prediction using cranial and post-cranial bone thickness. 3rd Intl Congress in Human Paleontology, Tel Aviv, Israel, 1992. (paper)
- 4) Mai, LL, Gauld, SC, Nelson, AJ & Austin, K. Evolutionary context of hominid body mass prediction models. 3rd Intl Congress in Human Paleontology, Tel Aviv, Israel, 1992. (paper)
- 3) Gauld, S.C, Nelson, AJ & Foley, A. Allometry and ontogeny of cranial and post-cranial bone thickness in cercopithecoid primates. American Association of Physical Anthropologists, Milwaukee, WI, April 1991. (paper)

- 2) Austin, JK. & Nelson, AJ. Morphometric analysis of the Solo tibiae in relation to Upper Pleistocene hominid fossils. American Association of Physical Anthropologists, Milwaukee, WI, April 1991. (poster)
- 1) Nelson, AJ. Newly described material from Wadjak, Java. American Association of Physical Anthropologists, San Diego, CA, April 1989. (paper)

**Conference Proceedings:** (career total = 7)

- 7) Van Loon, L.L., Nelson, A.J. & Banerjee, N.R. 2018. Will Synchrotron Studies Unlock the Mystery of the Invention of Coinage? Microscopy and Microanalysis 24 (Suppl 2 - Proceedings of the 14th International Conference on X-ray Microscopy (XRM2018)), 560-561.
- 6) Ellis, L, Suda, A, Nelson, AJ, Martin, R.R, Morris Z, Moffatt, E, Poulin, J, Newman R, Sobol H & I. Lefebvre, I. Forthcoming. "Investigating miniature masterpieces: The technical study of boxwood prayer beads in the Thomson Collection at the Art Gallery of Ontario." Proceedings from the ICOM-CC conference "Heritage Wood: Research and Conservation in the 21st Century," National Museum Warsaw, Poland. October 28-30, 2013. (to be published by Springer Publications).
- 5) Friedman, SN, Nelson, AJ, Granton, PV, Holdsworth, DW, Chhem, R & Cunningham, IA Forthcoming, Dual energy computed tomography automated bone identification in ancient Egyptian mummies. Proceedings of the 1<sup>st</sup> Bolzano Congress on Mummy Studies, Bolzano Italy.
- 4) Nelson, AJ, Chhem, R, Cunningham, IA, Friedman, SN, Garvin, G, Gibson, G, Granton, PV, Holdsworth, DW, Holowka, S, Longstaffe, F, Lywood, V, Nguyen, N, Shaw, R, Trumpour, M, Wade, AD & White, CD. Forthcoming. The ROM / UWO Mummy Project: A microcosm of progress in mummy research. Proceedings of the 1<sup>st</sup> Bolzano Congress on Mummy Studies, Bolzano Italy.
- 3) Beauchesne, P, Colquhoun, I., Cross, A., Longstaffe, F., Marciano, L., Metcalfe, J., Nelson, A.J., Pawlowski, A., Wheeler, S., White, C.D. & Williams, L. 2008. The Lady Hudson Project. In: Mummies and Science. World Mummies Research. Proceedings of the VI World Congress on Mummy Studies, P. Atoche, C. Rodriguez & M.A. Ramirez, eds, pp: 637-640. Santa Cruz de Tenerife.
- 2) Guillén, S., Nelson, A., Conlogue, G. & Beckett, R. 2008. Radiographic and endoscopic evaluation of methodological variations and cranial vault developmental anomalies among Peruvian subadult mummies and skeletal material exhibiting cultural cranial modification. In: P. Atoche, C. Rodriguez & M.A. Ramirez eds., Mummies and Science: World Mummy Research. Proceedings of the VI World Congress on Mummy Studies, pp: 561-566. Santa Cruz de Tenerife.
- 1) Knopf, GK & Nelson, AJ. 2004. ARCHAEO-SCAN: Portable 3D shape measurement system for archaeological field work. In: S. Kaneko, H. Cho & G. Knopf editors, Machine Vision and its Optomechatronic Applications, Proceedings of the SPIE Vol 5603: 51-62.

**Contributions to Museum Exhibitions:** (career total = 9)

Principals	Title and Venue	Contribution	Date
Samantha Harris & Evelyn Palmer	Ancient Lives – Egyptian Gallery at the Maidstone Museum, Kent, UK	I contributed reports on the CT scans of their human and animal mummies. Elements of those reports are incorporated in the displays.	Gallery opened Oct. 2017; collaboration began in Sept. 2016
Conlogue, G.	Re-Examination of the Shapiro/Robinson Dry Fetal Skull Collection - Cushing/Whitney Medical Library, Yale University, New Haven, CT	I contributed age determinations of 5 fetal skulls and images and animations from a microCT scan of another fetal skull	Spring 2017 & on going
Suda, A. & Ellis, L	Small Wonders: Gothic Boxwood Miniatures. - The Art Gallery of Ontario, Toronto, ON - the Virtual Reality display of the scan data of one of the beads won an American Alliance of Museums Honorable Mention AV/VR MUSE Award – May 2017.	I contributed to the microCT analysis of the boxwood prayer beads	November 5, 2016 to January 22, 2017
Lawson B, Lywood V, Nelson AJ, Tampieri D, <u>Wade AD</u>	Facing life after death: Medical Imaging and facial reconstructions of the Egyptian mummies of the Redpath Museum - Permanent exhibit of the Redpath Museum, Montreal, QC	This exhibition is based on the CT scans of three Egyptian Mummies. I oversaw the scanning of the mummies and contributed content to the exhibit	January 2013 & ongoing

<p>Beckett RG, Boswell GE, Boucher RJ, Brier B, Brown DE, Conlogue GJ, Costa M, Downey T, Hoang P, Horsley P, Kondrat JW, Lohmann U, Nelson AJ, Olson M, Stahl T, Takahashi A, Vu D, <u>Wade AD</u>, Wade R, Wilding A, Wright A.</p>	<p>Modern day mummy: The art &amp; science of mummification -Museum of Man, San Diego, CA - exhibit to accompany the World Congress on Mummy Studies</p>	<p>I contributed content and to the interpretation of the CT scans of the mummy</p>	<p>March 2012</p>
<p>Nelson, A.J., Contreras Barros, C., Garvin, G. &amp; <u>Jung, A.</u></p>	<p>Las Momias de Huamachuco. Text and graphics on display at El Museo Municipal Wamachuko, Perú</p>	<p>This display is based on my analysis of the x-rays of three mummies. I did the analysis and wrote the text for the display.</p>	<p>2007</p>
<p>Nelson, AJ, <u>Toyne, JM</u>, Neave, T, Conlogue, G, Beckett, R, Garvin, G &amp; Nelson, C</p>	<p>The Sulman Mummy. Permanent Museum Exhibit on Display at the Chatham-Kent Museum, Chatham Cultural Center, Chatham, Ontario</p> <p>The Chatham Kent Museum was awarded an Ontario Museums Association Award of Merit – Research, in October 2004 for the updated exhibit and for their educational outreach program surrounding the mummy research. The National Research Council also received an Outstanding Achievement award for their contribution to the project</p>	<p>This display is based on my CT scan of the Sulman Mummy. I oversaw the project, did the analysis and contributed text and graphics to the exhibit.</p>	<p>2002 – updated in 2004</p>
<p>Nelson, AJ</p>	<p>Mummy animation – exhibition element for <u>Acércate a Cajamarquilla</u> (Approach to Cajamarquilla), exhibition on display at the Museo de la Nación, Lima, Peru</p>	<p>I prepared an animation based on a sequence of photos of the unwrapping of a mummy from Cajamarquilla.</p>	<p>September 26 to October 31, 2002</p>

staff	Human Biology Exhibit, Ontario Science Centre	I contributed x-rays of two of their skeletons, provided exhibit content and advised them on exhibit copy	October 1995
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**Public Lectures:** (career total = 44)

Title	Venue	Date
Chemistry + Archaeology = Archaeometry: Advanced analytical techniques and the ancient world	Department of Chemistry, Western University, Visiting Speaker Series	January 2019
From Mummies to Medieval Prayer Beads: Paleoradiology at the University of Western Ontario	Sr. Alumni, Western University	November 2018
The Face of King Robert the Bruce: how a bioarchaeological analysis can right a historical wrong	Fall Preview Day, Western University	November 2017
Mummies, money and medieval beads: High tech scanning in archaeology	Fall Preview Day, Western University	November 2016
You want to scan what?: MDCT and microCT scanning in archaeology	London X-ray Associates	November 2016
Paleopathology - Pathology; the ancient - modern interface as experienced in the analysis of human remains from the Inca period site of Farfán, Peru	Dr. Robert Zhong Research Seminar, Department of Pathology, Schulich School of Medicine.	May 2016
Ask the experts: Mummies and science	Royal Ontario Museum's Big Weekends Wild Science event	September 2015
It started on the banks of the Otonabee: reflections on how many branches grow from a well-tended seed	Trent University's Archaeological Centre's 50 <sup>th</sup> Anniversary	October 2014
Tales from the tomb: Reading the osteobiographies of mummies	Unwrapping the Secrets of Egypt series. THEMUSEUM, Kitchener, ON	October 2014
Mummy studies at Western University	Western University Alumni Association, Kitchener chapter	October 2014
Paleo-oncology	Oncology Grand Rounds, London Regional Cancer Program	October 2014
Mummy studies at Western University	Sr. Alumni, Western University	October 2012
The identification of a First World War soldier from Avion, France	Elgin County Museum, St. Thomas, ON	April 2011
Modern medical science meets the ancient past: How we breathe new life into Egyptian mummies	Retired Academics Group, Western University	March 2010



Anthropology – the ultimate interdisciplinary discipline	Fall Preview Day, University of Western Ontario	November 2009
Methodological survey of radiographic techniques in archaeology	Medical Radiation Technology Program & Faculty Liaison Committee, Fifth Annual Clinical Education Day. Fanshawe College	June 2009
Memories of my first mummy... the development of mummy research in Southwestern Ontario	Chatham-Kent winter lecture series	February 2009
Bioarchaeology and forensic anthropology	Video Researcher On Call, Video Conference to Huron Park Secondary School, Woodstock	December 2007
The anatomy of the ancient world: the practice of paleoanatomy at UWO	Department of Anatomy,	November 2007
Cutting edge chemistry meets the ancient past: synchrotron x-ray fluorescence and peruvian bioarchaeology	Department of Geography, Western University (with Ron Martin)	November 2007
The Halloween mummy extravaganza	Anthropology Society, Western University	October 2006
Anthropology, bioarchaeology: the use of medical techniques to understand the past	Endocrinology Rounds, London Health Sciences Centre	June 2006
Dentistry and anthropology – the teeth tell the tales	Western University Dentistry Evening lecture series	April 2005
Possible applications of magnetic resonance imaging in mummy studies	Functional Magnetic Imaging Research Group, Robarts Research Institute	March 2005
Paleoradiology and the Sulman Mummy Project	London X-ray Associates	November 2004
The mummies speak	UWO Alumni Association	October 2004
A tale of two mummies: Cleo (aka the Sulman Mummy) and Lady Hudson (aka the Macskimming Mummy): The UWO Mummy Project	The Society for the Study of Egyptian Antiquities, Toronto	September 2004
When the mummies speak they have something to say to everyone: the multidisciplinary study of Egyptian Mummies At UWO	125 <sup>th</sup> Anniversary Lecture Series, UWO Alumni Association, Toronto Chapter	March 2004
The making of a virtual mummy	London Chapter, Ontario Archaeological Society	February 2004
The unveiling of the facial reconstruction of the Chatham Mummy	Chatham-Kent Museum	January 2004

Revealing the hidden past: the use of radiography in archaeological analysis. The scientific journey: the hidden revealed	The University of Western Ontario (see <i>Western News</i> , March 28, 2002 - article by Ted Hewitt)	April 2002
Artificial cranial modification in Precolumbian Perú: the anatomical and cultural interface	Anatomy & Cell Biology Seminar series, Department of Anatomy, UWO	February 2002
Fleshing out the bones: The bioarchaeological study of the pre-Columbian people of Northern Perú	Department of Anthropology, University of Toronto	November 2001
The Mummy Speaks: A Bioarchaeological Study of the Sulman Mummy	Chatham-Kent Museum	April 2001
Archaeology day	Ontario Archaeological Society public participation day – Chatham Ontario	September 2000
Anthropological study of the ancient peoples of Northern Perú	Department of Anatomy and Cell Biology, University of Cape Town, South Africa	August 1999
Travel through time	Novack's Talks to Travelers series	May 1999
Tomb time: Archaeology on the North Coast of Perú	Quaternary Studies Discussion Group, University of Waterloo	November 1998
Archaeology in Perú	Novack's Adventure Expo '97	April 1997
Anthropology and orthodontics: canine and third molar impaction in Precolumbian Perú	Orthodontics Department, Schulich School of Medicine and Dentistry, Western University	September 1996
Archaeology in Perú	Novack's Adventure Expo '96	March 1996
Tomb time: Archaeology on the North Coast of Perú	London Chapter, Ontario Archaeological Society	January 1996
North Coast exposure: a different face of travel - archaeology and life in Perú	Novack's Talks with Travelers Series	October 1995
The peopling of Europe - long and short chronologies. An analogy to the New World	London Chapter, Ontario Archaeological Society	April 1995
Anthropology and archaeology	C.C. Carrothers School, London, ON	March, 1995

## Media Related Activities

### TV/Video Productions Featuring My Research: (Career total = 17)

Date	Title	Production Company
January 2018 (aired January 16, 2018)	The Hockey Stick Project: CT Scans	Dailey Planet, Discovery Channel
July 2015 (aired spring 2016)	The Mystery of the Mummy's Tooth	Apartment 11 Productions for TVO
January 2013	Cat Mummy	Daily Planet, Discovery Channel
April 2010 (aired fall 2011)	The Smoked Mummies of the Anga	John Rubin Production for National Geographic
April 2010 (aired January 2011)	Museum Discoveries – The Baby Mummies of the ROM	Kensington TV production for the History Channel
September 2008 (showed from December 2008 to August 2009)	Virtual Mummies	Canadian Museum of Civilization production to accompany the exhibit “Tombs of Eternity: The Afterlife in Ancient Egypt
January 2008 (aired November 2008)	Unwrapping a Mummy	Eye Spy - Sci-Q, Discovery Channel/Smithsonian TV
November 2007 (aired January 2008)	The Mummy	Timeline Magazine, episode #639. Fairchild Television Ltd
October 2007 (aired December 2007)	Unwrapping a Mystery	Daily Planet, Discovery Channel
April 2007 (aired November 2007)	1917 - The Missing	Cream Productions for the History Channel
November 2004 (aired December 2004)	The Making of a Mummy	Daily Planet, Discovery Channel
June 2004 (aired September 2004)	Mysteriöse Mumie	Welt der Wunder - German TV
June 2004 (aired September 2004)	Anthropologie in 3D	Welt der Wunder - German TV
December 2003 (aired January 2004)	Who's Your Mummy?	Daily Planet, Discovery Channel
April 2003 (aired May 2003)	Mummy X-posed	Daily Planet, Discovery Channel

June 2001	Incas Unwrapped	The Mummy Roadshow – John Rubin Productions for the National Geographic Cable Channel
April 2001	An Egyptian Souvenir	The Mummy Roadshow – John Rubin Productions for the National Geographic Cable Channel

### Sample of Major Media Coverage of My Research

(this list is not exhaustive and does not include interviews about other peoples' research)

Venue & Date	Title	Research Being Covered
Western News Aug 23, 2018, CBC radio & cbc.ca, Globalnews etc.	Researchers shed new insights into fate of Franklin Expedition	- synchrotron analysis of bones and teeth from sailors from the Franklin Expedition – they were exposed to lead their entire lives, not just during the voyage
Western News, June 7, 2018, livescience.com, CTV, CBC and international coverage	Professor unwinding story of misidentified mummy	- CT and micro-CT analysis of an anencephalic fetal Egyptian mummy
Western News January 25, 2018	Exploring Canada's oldest hockey stick	- CT and micro-CT analysis of the world's oldest hockey stick – in collaboration with Linda Howie
Western News February 16, 2017; CBC, CTV, Daily Mail (UK) etc.	Western researcher and forensic sculptor reject Scottish King Robert's leprosy label	- the reanalysis of the cast of the skull of Sir Robert the Bruce in an assessment of the possibility that he had leprosy (he did not). In collaboration with Christian Corbett.
Western News, June 8, 2016; The Globe & Mail, November 5, 2016	Western unlocks secrets of Small Wonders	- microCT scanning of medieval prayer beads in collaboration with the Art Gallery of Ontario. Featured in an exhibition entitled "Small Wonders"
Western News, November 13, 2014; CBC, CTV, Huffington Post etc.	Mummy's song, identify return after millennia	- the osteobiographic and epigraphic analysis of a Royal Ontario Museum mummy and her coffin leading to her identification. In collaboration with Gayle Gibson.
Western News, April 8, 2013; CBC, CTV etc.	Western researchers acquit the tins in mysterious failed Franklin expedition	- coverage of our analysis of human remains from the Franklin Expedition, demonstrating that the high lead levels in their bones were not received from the solder of the food tins
London Free Press, January 3, 2012; Western News, CBC etc.	UWO researcher wins mummy of all grants	- coverage of my receipt of the Digging into Data grant to establish the IMPACT Mummy Database

Western News, March 4, 2011; CBC, London Free Press, Toronto Star etc.	Finding Private Lawless (won the Canadian Community Newspaper Award for the Best Campus Feature Story)	- coverage of the identification of WWI soldier Private Lawless, whose remains were found near Vimy Ridge. In collaboration with Chris White, Fred Longstaffe, Christian Corbett and the Department of National Defense.
London Free Press, October 31, 2007; CBC; A Channel etc	Mummy clearest	- coverage of the CT scanning of three mummies from the Royal Ontario Museum. In collaboration with Rethy Chhem
Western News, February 1996; CBC radio; Channel 7 Television, Guadalupe, Peru	Peruvian Dig Yields Secrets of Pre-Incan Culture	- coverage of my SSHRC funded bioarchaeology project at San Jose de Moro

## **GRADUATE TEACHING**

### **Graduate Supervision:**

(note: the Department of Anthropology at UWO started its PhD program in Fall 2003)

Member of the School of Graduate and Postgraduate Studies for the Departments of Anthropology, Classics, Chemistry, Musculoskeletal Health Research and Transitional Justice and Post-conflict Reconciliation

Category	completed	in progress	withdrawn
Doctoral Thesis – supervisor/co-supervisor	6	4	2
Doctoral Thesis - committee	7	5	1
Doctoral Thesis - external examiner	6	0	0
Master’s Thesis – supervisor	23	3	1
Master’s Thesis – advisor	12	0	0
Master’s Thesis – external examiner	10	0	0
Visiting Graduate Students - co-supervision	2	0	0
Post-Doctoral Fellows	1	0	0

### **Post-doctoral Supervision**

Dr. Andrew D. Wade – supervisor – completed June 2013

### **Graduate Student Supervision**

#### **PhD**

Student	Program	Role	Year	Title	Awards
Joanna Suckling	Anthropology, UWO	supervisor	2017 & ongoing	taphonomy and mummies	<i>OGS winner (2018-19)</i>
Madalena Kozachuk	Chemistry, UWO	co-supervisor w Ron Martin and TK Sham	2015 & ongoing	The Use of Synchrotron Radiation to Analyze Archaeological and Museum Artifacts	OGS winner (2018-19)
Jennifer Willoughby	Anthropology, UWO	supervisor	2015 & ongoing	Paleo-oncology in Mummies	<i>Trillium award winner</i>

Maria del Carmen de la Vega	Anthropology, UWO	supervisor	completed July 2016	A History of Violence: 3200 Years of Interpersonal and Intergroup Conflicts from the Initial to the Early Colonial Periods in the Peruvian Central Coast. A Bioarchaeological Perspective	<i>Vanier award winner, Western Humanitarian Award winner</i>
Jennifer Morgan	Anthropology, UWO	supervisor	completed May 2014	The Methodological and Diagnostic Applications of Micro-CT to Palaeopathology: A Quantitative Study of Porotic Hyperostosis	<i>OGS, &amp; OGSST award winner</i>
Christine Boston	Anthropology, UWO	supervisor	completed August 2012	Investigations of the Biological Consequences and Cultural Motivations of Artificial Cranial Modification Among Northern Chilean Populations	<i>OGS award winner</i>
Ngan Nguyen	Anatomy & Cell Biology, UWO	co-supervisor w Tim Wilson	completed April 2012	Anatomy: The Relationship Between Internal and External Visualizations	<i>SSHRC doctoral fellowship winner</i>
Andrew Wade	Anthropology, UWO	supervisor	completed April 2012	Hearts and Minds: Examining the Evolution of the Egyptian Excerebration and Evisceration Traditions through the IMPACT Mummy Database	<i>SSHRC CGS doctoral fellowship winner</i>
Michele Bleuze	Anthropology, UWO	supervisor	completed December 2010	Cross-sectional Morphology and Mechanical Loading in Fossil Hominids	
Withdrawals					

Renee Willmon	<i>co-tutelle</i> Anthropology, UWO and EPHE, Bordeaux France	co- supervisor w Olivier Dutour	2011- 2019 withdrawn	MicroCT of Tuberculosis	<i>OGS award winner, Vanier award winner</i>
Kirsten Bruce	Anthropology, UWO	supervisor	2016 – withdrew 2018	The Antiquity of Cancer and the Bioarchaeology of Care	<i>SSHRC CGS award winner 2017; OGS winner (declined) 2017; George Yang Global Opportunities Award, UWO</i>
Janet Gardner	Anthropology, UWO	supervisor	2003- withdrew 2007	bioarchaeological analysis of trauma in Upper Pleistocene hominins	

### MA/MSc

Student	Program	Role	Year	Title	Awards
Jillian Graves	Anthropology, UWO	supervisor	2018 & ongoing	mummification of subadults in Ancient Egypt	
Andrew Arsenault	Anthropology, UWO	supervisor	2018 & ongoing	social status and mummification practice	<i>OGS; SSHRC CGS-M fellowship winner</i>
Jessica Lacerte	Anthropology, UWO	supervisor	2017 & ongoing	Analysis of linear enamel hypoplastic lines in teeth of skeletons from Peru's central coast	<i>OGS</i>
Katya Valladares	Anthropology, UWO	supervisor	2016 & ongoing	Osteological Material from Chan Chan, Peru	<i>Beca Carlos Brignardello, Institut Français d'études Andines award holder</i>



Hallie Tennant	Anthropology, UWO	supervisor	completed August 2015	To Walk about as They Pleaseth: an Exploratory Study of Limb Treatment and Positioning in Ancient Egyptian Mummies	
Rebecca Dillon	Anthropology, UWO	co-supervisor w J.F. Millaire	completed April 2015	Ritual Violence and Times of Transition: A Bioarchaeological Analysis of Burials from Huaca Santa Clara and Huaca Gallinazo in the Virú Valley, Perú	
Jose Sanchez	Anthropology, UWO	supervisor	completed September 2014	In Search of a Cause: An Etiological Analysis of Manubrial Porosity	
Arthur Klages	Anthropology, UWO	supervisor	completed August 2013	A Micro-CT Analysis of the Hominoid Subnasal Anatomy	<i>QE-II Award holder</i>
Kaye Boucher	Anthropology, UWO	supervisor	completed December 2012	A Comparative Ontogenetic Study of Biomechanical Adaptations in the Long Bones of South African Khoisan and Sadlermiut Inuit	
Allee Jaagumagi	Anthropology, UWO	supervisor	completed January 2010	An Examination of Vertebral Compression Fractures in a pre-Columbian Peruvian Population	<i>SSHRC CGS-M fellowship winner</i>
Daniel Castellanos	Magíster en Antropología Forense y Bioarqueología, Pontifica Universidad Católica del Per	co-supervisor w Sonia Guillén	completed October 2009	Un Acercamiento a la Variabilidad en la Estatura y las Proporciones Corporales En El Perú. Una Muestra Arqueológica y Una Subactual	

Sheryl Spigelski	Anthropology, UWO	supervisor	completed August 2009	Mysteries of the Dead: A Taphonomic Analysis of the Skeletal Remains from the Peruvian Highland Sites of Marcahuamachuco and Cerro Amaru	<i>OGS award winner</i>
Amy Scott	Anthropology, UWO	supervisor	completed August 2009	Body Size Indicators and Stress: A Growth and Development Perspective	<i>SSHRC Bombardier CGS Masters fellowship holder</i>
Andrew Wade	Anthropology, UWO	supervisor	completed May	Radiological assessment of age-related change in the trabecular structure of the human <i>os pubis</i>	<i>OGS award winner</i>
Christine Boston	Anthropology, UWO	supervisor	completed June 2007	Growth and Development and Paleopathological Analysis of Ancient Northern Chilean Populations as Related to Possible Arsenic Poisoning	
Erin McClellan	Anthropology, UWO	supervisor	completed August 2006	The Consequences of Cultural Cranial Modification	
Alan Cross	Anthropology, UWO	supervisor	completed July 2005	Arm Swing, Thermoregulation and the Evolution of Bipedality	<i>SSHRC Bombardier CGS Masters fellowship holder</i>
Patrick Beauchesne	Anthropology, UWO	supervisor	completed July 2005	Protein Consumption and Bone Health in Ancient Peru	<i>OGS award winner</i>
Megan Gardiner	Anthropology, UWO	supervisor	completed June 2004	Sexual Dimorphism and Activity Patterns Among the Sadlermiut	
Jennifer Nash	Anthropology, UWO	supervisor	completed June 2003	A Statistical Analysis of Musculoskeletal Stress Markers: The Significance of Age, Sex, Body Size, and Activity	

J. Marla Toyne	Anthropology, UWO	supervisor	completed June 2002	Tales Woven in Their Bones: The Osteological Examination of the Human Skeletal Remains from the Stone Temple, Túcume, Perú	<i>OGS award winner</i>
Marc Lichtenfeld	Anthropology, UWO	supervisor	completed September 2001	Artificial Cranial Modification in the Jequetepeque Valley, Perú	
Jodi Blumenfeld	Anthropology, UWO	supervisor	completed June 2001	Neandertal facial Morphology and Cold Adaptation	
Rhonda Bathurst	Anthropology, UWO	supervisor	completed September 2000	Regional Comparisons of Skeletal Stress in Dogs. Addressing Community Health in Archaeology	<i>OGS award winner</i>
Terry May	Anthropology, UWO	supervisor	completed July 1999	The Study of Bone Mineral Density as a predictor of Body Mass in Modern <i>Homo sapiens</i>	
Peter Bangarth	Anthropology, UWO	supervisor	completed September 1998	Chachapoyan Archaeological Site Location with Satellite Imagery	<i>OGS award winner</i>
April Delaurier	Anthropology, UWO	supervisor	completed June 1998	The Effects of Habitual Biomechanical Stress, Trauma and Pathology on the Development and Age-Related Degeneration of the Male Pubic Symphysis	

**Visiting Graduate (MA) Students:** (career summary = 2)

Student	Program	Role	Year	Title
Andrea Feilen	Ludwig Maximilians University in Munich Germany	co-supervisor w G. Grupe	completed August 2004	Reading Between the Lines: A Cementum Ring Analysis on Pre-Hispanic Mummies from Perú
Julia Eckel	Ludwig Maximilians University in Munich Germany	co-supervisor w G. Grupe	completed January 2005	Technical Approaches to a Molecular and Elemental Characterization of Mummified Human Hair

**Graduate Committee Membership:** (career summary 13 PhD; 13 MA/MSc)

PhD.:

Student	Program	Year	Comment
Sebastian Cobos	Medical Biophysics, UWO	ongoing	
Amanda James	Anthropology, UWO	ongoing	
Maria Patricia Ordóñez	Bio-Archaeology, Leiden University, Netherlands	ongoing	
Lauren Gilhooly	Anthropology, UWO	ongoing	
Amy St. John	Anthropology, UWO	ongoing	
Jordon Munizzi	Anthropology, UWO	completed fall 2017	
Flannery Surette	Anthropology, UWO	completed winter 2015	
Jordan Downey	Anthropology, UWO	completed winter 2014	
Karyn Olsen	Anthropology, UWO	completed fall 2013	
Carlie Pennycook	Anthropology, UWO	completed spring 2013	

Emily Webb	Anthropology, UWO	completed fall 2010	
Sandra Wheeler	Anthropology, UWO	completed summer 2009	
Lana Williams	Anthropology, UWO	completed summer 2008	

MA/MSc:

Student	Program	Year
Elizabeth Jewlal	Anatomy & Cell Biology, UWO	2017 – in progress
Shauna Solomon	Anthropology, UWO	completed August 2009
Stephanie Goodfellow	Anthropology, UWO	completed August 2005
Karyn Olsen	Anthropology, UWO	completed August 2006
Eileen Marion-Bellemare	Anthropology, UWO	completed August 2005
Lindsay Foreman	Anthropology, UWO	completed September 2004
Juliana Matthews	Anthropology, UWO	completed September 2003
Jay Maxwell	Anthropology, UWO	completed November 2003
Jim Keron	Anthropology, UWO	completed May 2003
Jaime Ginter	Anthropology, UWO	completed June 2001
Alexis Dolphin	Anthropology, UWO	completed June 2000
Jocelyn Williams	Anthropology, UWO	completed June 2000
Cathy Walper	Anthropology, UWO	completed September 1999

**Graduate Student External Examination:** (career summary 6 PhD; 11 MA/MSc)

PhD:

Student	Program	Year
Justin Tse	Medical Biophysics, UWO	March 2018
Phaedra Henley	Pathology, UWO	June 2014
Janet Davey	Forensic Medicine, Monash University, Australia	August 2013
Charys Martin	Anatomy & Cell Biology, UWO	October 2012
Jay Stock	Anthropology, University of Toronto	August 2002

Tanya Peckman	Anatomy, University of Cape Town, South Africa	April 2002
Lisa Gannett	Philosophy, UWO	1998

MA:

Student	Program	Year
Chris Wilbur	Psychology, UWO	August 2005
Katrina Bettcher	Anthropology, Trent University	January 2000
James Huffman	Anthropology, Trent University	June 1999

MSc:

Student	Program	Year
Thomson, Andrew	Earth Sciences, UWO	December 2017
Ashish Gupta	Surgery/Engineering, UWO	December 2016
Karen Griffin	Biology, Lakehead University	March 2015
David Edey	Medical Biophysics/Earth Sciences, UWO	February 2014
Louise Du	Medical Biophysics/Earth Sciences, UWO	June 2007
Lisa Munro	Earth Sciences, UWO	April 2005
Xulong Peng	Geography, UWO	September 2002
Steve Timmermans	Zoology, UWO	December 2000

## Graduate Teaching

### Graduate Teaching at Western University Summary

Course Name	Description
Special Topics in Bioarchaeology Advanced Analytical Techniques in Archaeology and Bioarchaeology	Fall 2017/2018 (new) Fall 2018/2019
Special Topics in Bioarchaeology - Bioarchaeology	Winter 2016/17 (new)
Professionalization in Anthropology	Fall 2007/08 (new)

Research Methods in Bioarchaeology	Winter 1998/99 (new); Winter 1999/00; Fall 2000/01; Winter 2001/02; Winter 2002/03; Winter 2003/04; Winter 2004/05; Winter 2005/06; Fall 2007/08; Winter 2009/10; Winter 2013/14; Winter 2014/15; Fall 2016/17; Winter 2017/18
Graduate Reading Courses	career summary = 32 + 2 in progress

**Graduate Teaching in another University:** (career summary = 2)

Term/Year	Course Name	Institution	Description
February 2012	Bioarqueología y espectroscopía (new)	Spectra 2012, Lima, Peru	Short course (6 lecture hours in Spanish) on Bioarchaeology and Spectroscopy. With Ron Martin (UWO Chemistry).
October 2009	Tafonomía (new)	Pontificia Universidad Católica del Perú, Lima	Course in Taphonomy to the MA program in Forensic Anthropology and Bioarchaeology (18 lecture hours in Spanish)

**Courses:** (career summary = 16)

Term/Year	Course Number	Course Name	N	Student Course Evaluations (out of 7)		
				course	instructor	avg 1-9
Fall 2018/19	Anthro 9104B	Special Topics in Bioarchaeology (new) – Advanced Analytical Techniques	4	n/a		
Winter 2017/18	Anthro 9101B	Research Methods in Bioarchaeology	5			
Fall 2017/18	Anthro 9104B	Special Topics in Bioarchaeology (new) – Advanced Analytical Techniques	6	n/a		
Winter 2016/17	9104B	Special Topics in Bioarchaeology (new) – Bioarchaeology	3	n/a		
Winter 2014/15	Anthro 9101	Research Methods in Bioarchaeology	5	6	6	6.1
Winter 2013/14	Anthro 9101	Research Methods in Bioarchaeology	9	6.3	6.6	6.5

Winter 2009/10	Anthro 9101	Research Methods in Bioarchaeology	5	4.5	6.3	6.2
Fall 2007/08	Anthro 506a	Professionalization in Anthropology (new)	21	5.4	5.9	6.0
Winter 2005/06	Anthro 503b	Research Methods in Bioarchaeology	8	6.4	6.6	6.6
Winter 2004/05	Anthro 503b	Research Methods in Bioarchaeology	6	4.5	4.8	4.7
Winter 2003/04	Anthro 503b	Research Methods in Bioarchaeology	6	5.2	5.2	5.7
Winter 2002/03	Anthro 503b	Research Methods in Bioarchaeology	6	6.0	6.2	6.2
Winter 2001/02	Anthro 503b	Research Methods in Bioarchaeology	3	7.0	7.0	7.0
Fall 2000/01	Anthro 503a	Research Methods in Bioarchaeology	6	5.8	6.4	6.2
Winter 1999/00	Anthro 503b	Research Methods in Bioarchaeology	6	6.0	6.4	6.4
Winter 1998/99	Anthro 503b	Research Methods in Bioarchaeology (new)	8	6.0	6.0	6.0

**Reading Courses:** (career summary = 32+ 2 in progress)

Term/Year	Topic	Student	Level
Fall 2018/19	Social Stratification in Ancient Egypt	Andrew Arsenault	MA
Fall 2018/19	Subadult Mummification in Ancient Egypt	Jillian Graves	MA
Winter 2017/18	Peruvian Bioarchaeology	Jessica Lacerte	MA
Fall 2016/17	Paleo-oncology Investigations	Kirsten Bruce	PhD
Fall 2016/17	Biomechanics in Bioarchaeology	Katya Valladares	MA
Fall 2014/15	Paleo-oncology, Mummies and Paleoradiology	Jennifer Willoughby	PhD
Fall 2013/14	Degenerative Joint Disease in Ancient Egyptian Mummies	Hallie Tennant	MA
Fall 2012/13	Andean Bioarchaeology	Rebecca Dillon	MA
Fall 2012/13	Pathology and Functional Morphology of the Sternum	Jose Sanchez	MA
Winter 2011/12	Radiography and Bone Biology	Renee Wilmon	PhD
Winter 2011/12	Mummy Conservation	Casey Kirkpatric	PhD
Fall 2011/12	Hominoid Facial Morphology	Arthur Klage	MA
Fall 2010/11	The Bioarchaeological Analysis of Trauma	Maria del Carmen de la Vega	PhD
Fall 2010/11	Hominid Growth and Development	Kaye-Lynn Boucher	MA
Fall 2009/10	Materials Analysis from CT scans	Jennifer Morgan	PhD



Winter 2008/09	Review of Bone Biology	Allee Jaagumaggi	MA
Winter 2008/09	Paleoradiology of Mummies	Drew Wade	PhD
Summer 2008	Cranial Modification	Christine Boston	PhD
Summer 2008	PACS and the Radiological Study of Mummies	Drew Wade	PhD
Fall 2007/08	Andean Bioarchaeology	Christine Boston	PhD
Fall 2007/08	East African Fossil Hominids	Michele Bleuze	PhD
Winter 2007/07	Methods of Biomechanical Analysis	Michele Bleuze	PhD
Fall 2005/06	Bone density as Applied to Faunal Analysis	Lindsay Foreman	PhD
Summer 2005	Mesoamerican Bioarchaeology	Barb Hewitt	PhD
Winter 2004/05	Scurvy and Radiological Diagnosis	Jay Maxwell	PhD
Summer 2004	Mummy Analysis	Lana Williams and Sandra Wheeler	PhD
Summer 2004	Micro-CT Analysis	Sandra Wheeler	PhD
Winter 2003/04	Practical Radiography (with G. Garvin)	Janet Gardner	PhD
Winter 2003/04	Hair Analysis in Bioarchaeology	Lana Williams	PhD
Fall 2003/04	Human Evolution Outreach	Lisa Paulaharju	MA
Fall 2002/03	Sexual Dimorphism	Megan Gardiner	MA
Winter 1999/2000	Practical Andean Archaeology	Mark Lichtenfeld, Marla Toyne	MA
Winter 1999/2000	Dog and Human Skeletal Nutritional Stress Indicators	Rhonda Bathurst	MA
Winter 1997/98	Bone Biology	Terry May	MA

## UNDERGRADUATE TEACHING

### Undergraduate Teaching at Western University Summary

Course Name	Description
Human Aging: Bioanthropological Perspectives (honours)	Winter 2017/18 (new)
The Scientific and Cultural Analysis of Mummies (2 <sup>nd</sup> year)	Winter 2016/17 (new); Fall 2017/18 Winter 2018/19
Bioarchaeology: Practice and Theory (honours)	Winter 2016/17 (new); Winter 2018/19
Topics in Human Evolution (honours)	Winter 1994/95 (new); Winter 1995/96; Winter 1996/97; Winter 1998/99; Fall 2000/01; Fall 2004/05; Fall 2007/08; Fall 2009/10; Fall 2016/17
Primate Evolution (honours)	Winter 1997/98 (new); Winter 1999/00; Winter 2001/02; Fall 2003/04; Fall 2005/06
Biological Anthropology (2 <sup>nd</sup> year)	Winter 1994/95 (new); Winter 1996/96; Fall 1996/97; Fall 1997/98; Fall 1998/99; Fall 1999/00; Winter 2002/03;
Introduction to Anthropology (1 <sup>st</sup> year)	Fall 1994/95 (new) (2 sections); Fall 1995/96 (2 sections); Fall 1996/97; Fall 1997/98; Fall 1999/00; Fall 2002/03; Winter 2003/04; Winter 2011/12
Scholars' Electives Supervision	career summary = 4
Undergraduate Thesis co-supervision	career summary = 5
Undergraduate Reading Courses	career summary = 21

### Teaching Awards and Nominations

USC Teaching Honour Roll Award of Excellence – 2000-2001, 2007-08, 2009-10, 2016-17  
 Nominated for the USC Teaching Award in 1995-96 and 2002-03

### Undergraduate Courses

(note: I was largely out of the undergraduate graduate program during my term as Associate Dean – 2010/15)

Term/Year	Course Number	Course Name	N	Avg 1-9 (avg of 14 pre 2017/18) (out of 7)	Effectiveness as University Teacher (out of 7)
Winter 2018/19	Anthropology 2239B	The Scientific and Cultural Analysis of Mummies		n/a	

Winter 2018/19	Anthropology 3311G	Bioarchaeology: Practice and Theory		n/a	
Fall 2018/19	Anthropology 1020 – 001	Many Ways of Being Human (new) – archaeology section	30 of 108	4.98	5.2
Fall 2018/19	Anthropology 1020 – 002	Many Ways of Being Human – archaeology section	23 of 102	5.91	6.39
Winter 2017/18	Anthropology 2236G	Human Aging: Bioanthropological Perspectives (new)	24 of 44	5.87	6.17
Fall 2017/18	Anthropology 2239A	The Scientific and Cultural Analysis of Mummies	41 of 61	6.15	6.37
				Avg 1- 14 (out of 7)	
Winter 2016/17	Anthropology 2239G	The Scientific and Cultural Analysis of Mummies (new)	39 of 79	6.2	6.4
Winter 2016/17	Anthropology 3311G	Bioarchaeology: Practice and Theory (new)	14 of 20	6.4	6.6
Fall 2016/17	Anthropology 3336F	Topics in Human Evolution	5 of 13	6.7	7.0
Winter 2011/12	Anthropology 1020E	Introduction to Anthropology	106	5.4	5.2
Fall 2009/10	Anthropology 3336F	Topics in Human Evolution	15	6.3	6.4
Fall 2007/08	Anthropology 336F	Topics in Human Evolution	15	6.4	6.5
Fall 2005/06	Anthropology 334F	Primate Evolution	28	6.1	6.3
Fall 2004/05	Anthropology 336F	Topics in Human Evolution	16	6.1	6.1
Winter 2003/04	Anthropology 026G	Introduction to Anthropology	62	5.6	6.0
Fall 2003/04	Anthropology 334F	Primate Evolution	18	6.2	6.6
Winter 2002/03	Anthropology 226B	Biological Anthropology	44	6	6.5
Fall 2002/03	Anthropology 026A	Introduction to Anthropology	33	5.4	5.9
Fall 2002/03	Anthropology 336F	Topics in Human Evolution	19	6.1	6.3
Winter 2001/02	Anthropology 334G	Primate Evolution	49	5.8	6.2
Fall 2000/01	Anthropology 336F	Topics in Human Evolution	18	6.3	6.5
Winter 1999/00	Anthropology 334G	Primate Evolution	39	6.1	6.3

Fall 1999/00	Anthropology 226A	Biological Anthropology	29	5.8	6.2
Fall 1999/2000	Anthropology 026F	Introduction to Anthropology	97	5.6	6.1
Winter 1998/99	Anthropology 336G	Topics in Human Evolution	21	6.4	6.6
Fall 1998/99	Anthropology 226A	Biological Anthropology	49	5.8	6.2
Fall 1998/99	Anthropology 334F	Primate Evolution	43	5.8	6.2
Winter 1997/98	Anthropology 334F	Primate Evolution (new)	51	5.6	5.7
Fall 1997/98	Anthropology 226A	Biological Anthropology	55	5.9	6.1
Fall 1997/98	Anthropology 026F	Introduction to Anthropology	113	5.3	5.9
Winter 1996/97	Anthropology 336G	Topics in Human Evolution (new)	17	6.3	6.5
Fall 1996/97	Anthropology 026F	Introduction to Anthropology	110	5.3	5.8
Fall 1996/97	Anthropology 226A	Biological Anthropology	42	5.8	6.2
Winter 1995/96	Anthropology 226B	Biological Anthropology			
Winter 1995/96	Anthropology 336G	Topics in Human Evolution			
Fall 1995/96	Anthropology 020E	Introduction to Anthropology			
Fall 1995/96	Anthropology 020E	Introduction to Anthropology			
Winter 1994/95	Anthropology 226B	Biological Anthropology (new)			
Winter 1994/95	Anthropology 336G	Topics in Human Evolution (new)			
Fall 1994/95	Anthropology 020E	Introduction to Anthropology			
Fall 1994/95	Anthropology 020E	Introduction to Anthropology (new)			

**Scholars' Electives Program Supervision:** (career summary = 4)

Term/Year	Program	Student Name
2013/14	Biology	Alex Nelson
2000/03	Anthropology and Biology	Laura Petrella
1998/99	Anthropology and Geography	Alexis Morgan
1997/2000	Anthropology and Genetics	Jody Lacten

**Undergraduate Thesis Supervision:** (career summary = 5)

(note: the Department of Anthropology does not have an undergraduate thesis option)

Term/Year	Program	Student Name
2018/19	Chemistry (co-supervised with Ron Martin)	Linkun Yang
2013/14	Chemistry (co-supervised with Ron Martin)	Madalena Kozachuk
2013/14	Diagnostic Radiology & Nuclear Medicine (co-supervised with Niel Gelhman)	Brett Coelho
2012/13	Diagnostic Radiology & Nuclear Medicine (co-supervised with Niel Gelhman)	Mark Shewfelt
2004/05	Chemistry (co-supervised with Ron Martin)	Michael Edwards
2003/04	Chemistry (co-supervised with Ron Martin)	Amie Arnold

**Reading Courses:** (career summary = 20)

Term/Year	Topic	Student
Fall 2018/19	Artificial Intelligence and Bioarchaeology	Alex Gregor
Summer 2017/18	Diet and Bioarchaeology in Peru	Alex Gregor
Fall 2017/18	The Mummy Trade	Megan Gray
Fall 2017/18	Viking Bioarchaeology	Robyn Wood
Winter 2014/15	Management of CT Data	Jeff Grieve
Fall/Winter 2013/14	The Archaeology of Maranga	Alex Nelson (undergraduate, Scholars Electives student)
Winter 2009/2010	Early Hominid Evolution	Arthur Klage
Fall 2009/2010	Osteology of 19 <sup>th</sup> Century Ontario	Steve Naftel
Fall 2009/2010	The Ontogeny of Primate Intelligence	Jenna Jaworski
Summer 2008	two directed readings courses	Thorsten Kragh (visiting undergrad from Germany)
Winter 2006/07	Methods of Facial Reconstruction for Sub-Adults	Alexis Cheapske
Summer 2007	Mesoamerican Archaeology	Matt Longstaffe
Fall 2005/06	Cranial Ontogeny in Modern Humans and Fossil	

	Hominids	Robert Jackson
Fall 2004/05	Forensic Anthropology	Jim Brown
Fall 2004/05	Tourism in Leymebamba, Peru	Juan Montes & Jennifer Lajoie
Winter 2002/03	Dental Analysis by Micro-CT & Thin Section	Nadia Lytwenko
Fall 2002/2003	Hominid Growth and Development	Sandra Hale & Parker Pearson
Fall 2002/03	Facial Reconstruction	Jennifer Omstead
Winter 1999/2000	Practical Andean Archaeology	Sandra Pool
Winter 1999/2000	Topics in Andean Archaeology	Sam Brocklebank
Winter 1996/97	Practical Andean Archaeology II	Melanie Crozier and Angelique Mohring
Fall 1996/97	Practical Andean Archaeology I	Melanie Crozier and Angelique Mohring

## **SERVICE**

### **Scholarly, Professional and Community Activities:**

#### **Board and Executive Roles:**

<b>Position</b>	<b>Organization</b>	<b>Dates Served</b>
Board Member - Vice Chair of the Board - Chair – Academic & Research and Strategy subcommittees	Museum of Archaeology, London, ON <a href="http://archaeologymuseum.ca/">http://archaeologymuseum.ca/</a>	September 2013 & ongoing
Board Member	Canadigm – a NFP research group working on carvings in the tunnels under Vimy Ridge - <a href="http://www.canadigm.ca/">http://www.canadigm.ca/</a>	September 2010 & ongoing
Board Member	Bioanthropology Research Institute at Quinnipiac University – a research institute composed of paleopathologists and radiologists	September 1999 & ongoing
Past-President	Canadian Association for Physical Anthropology	October 2005 to October 2006
President	Canadian Association for Physical Anthropology	October 2002 to October 2005
Board Member	Future Forests of London – a relief and development organization active in Ethiopia.	October 1999 to 2002
UWO Director	Research collaboration program between Pontifica Universidad Católica del Perú (Lima) and Western University	January 1996 to 2001

**Department Reviews: (career total = 2)**

Department	Committee Membership	Dates Served
Department of Anthropology – Brandon University, Brandon, MB	Cunningham, H., Ellis, C.J., Naylor, J. & Nelson, AJ	Spring 2016
Department of Anthropology – University of Manitoba, Winnipeg, MB	Rethman, P, Wilkinson, L, & Nelson, AJ	Spring 2017

**Promotion Reviews: (career total = 2)**

Promotion	Department/University	Date(s) of Review
Tenure	Department of Anthropology, University of Victoria	11/2013
Full Professor	Evolutionary Medicine, University of Zurich	03/2018

**Manuscript Reviews: (career total = 54)**

Journal	Date(s) of Review
American Journal of Physical Anthropology	03/1997, 11/2004
American Journal of Primatology	05/1995
Anatomical Record	02/2013, 03/2013 (2 times), 06/2013
Andean Past	05/2008
Anthropologischer Anzeiger	10/2011, 04/2013, 11/2014, 08/2018
Archaeometry	02/2015, 08/2017
Canadian Association of Radiologists Journal	05/2004 (2 times)
Chungará	10/2006
Clinical Anatomy	02/2013
Current Anthropology	04/1997, 06/2000
Human Biology	03/2019
International Journal of Osteoarchaeology	04/2002, 06/2002, 01/2004, 08/2004, 10/2012, 03/2013, 04/2014, 03/2016
International Journal of Paleopathology	03/2007, 08/2011, 04/2017, 09/2017, 12/2017, 04/2018, 05/2018, 11/2018, 12/2018, 01/2019, 03/2019
Journal of Archaeological Science	02/2013
Journal of Human Evolution	09/2005
Journal of Theoretical Biology	12/2010
Latin American Antiquity	05/2003, 08/2017
Medicina	11/2017, 12/2017
Pain Research and Management	05/2008
Pearson	11/2000, 12/2000 (chapter reviews)
PLOS ONE	01/2013, 04/2013, 05/2017, 07/2017

**Book Proposal Reviews:** (career total = 14)

Publisher	Date(s) of Review
Cambridge University Press	11/2003, 08/2005, 07/2007, 12/2016
Elsevier	08/2004, 10/ 2004, 05/2015
Pearson Education Canada	11/2006
Prentice Hall	12/1997
Springer	03/2007
Taylor & Francis (CRC Press)	05/2016, 07/2017, 04/2018
University of Toronto Press	12/2018
West Publishing Company	11/1993

**Book Manuscript Reviews:** (career total = 2)

Publisher	Date(s) of Review
University of Cairo Press	04/2014
University of Colorado Press	01/2019

**Grant Reviews:** (career total = 18)

Granting Organization	Date(s) of Review
Canada Foundation for Innovation	08/2003, 05/2005, 07/2006
Fullbright Society	02/2008
Leakey Foundation	02/2008, 09/2008, 03/2009
National Geographic Society	04/2014, 09/2014
National Medical Research Council, Singapore	02/2005
National Science Foundation	02/2005, 10/2017, 08/2-18
The Royal Society of New Zealand's Marsden Fund	06/2004, 07/2014
Social Science and Humanities Research Council of Canada	01/2002, 01/2006, 02/2006, 02/2007
Social Science and Humanities Research Council of Canada – National Anthropology Grants Review Panel	spring 2013



**Other Public/Academic Activities:** (career total = 10)

Activity	Organization	Date
Special Advisory Committee on the SSHRC Institutional Grant	Social Science and Humanities Research Council of Canada	2016
Shelley Saunders Award Judge	Canadian Association for Physical Anthropology	April 2017
Student Poster Prize Judge	44 <sup>th</sup> annual meeting of the Canadian Association for Physical Anthropology	October 2016
CAPA/ACAP Tri-Council research funding subcommittee	Canadian Association for Physical Anthropology	Spring 2013
Cockburn Service Award Committee Judge	Paleopathology Association	March 2005
Student Paper Prize Judge	32 <sup>nd</sup> annual meeting of the Canadian Association for Physical Anthropology	October 2004
Student Paper Prize Judge	31 <sup>st</sup> annual meeting of the Canadian Association for Physical Anthropology	October 2003
Student Paper Prize Judge	30 <sup>th</sup> annual meeting of the Canadian Association for Physical Anthropology	October 2002
Judge	Western Research Forum	April 2000
Interviewee	Bridges Initiatives Inc. - a project to bring information to high school students on a variety of careers on the World Wide Web	January 2000
Interviewee	Career Cruising - a project to bring information to high school students on a variety of careers on interactive CD	July 1999
Archaeology Career Advisor	information session for Nokee Kwe – a First Nation Adult Education Center	February 1999
Contributor	Type 53 Film Application Revolutionizes In-field Archeological X-ray Techniques" - <u>Applications Digest</u> (Jan. 1998), produced by the Polaroid Applications Group	January, 1998

## Forensic and Bioarchaeological Activities

### Forensic Consultations: (career summary = 26)

Law Enforcement Agency	Date
London Police Service	03/2017; 02/2017;06/2012; 03/2012; 05/2011; 05/2010*2; 10/2009; 06/2009; 06/2008; 05/2008; 04/2007; 08/2004; 04/2004; 08/2003; 08/2001; 05/1997; 11/1996; 09/1995
Elgin County OPP	04/2012; 09/2009
OPP (Cacrunna)	05/2006
OPP (Aberdeen Line)	04/2006
Chatham Kent Police Force	08/2003; 05/2003
Amherburg Police Service	06/2017

### Bioarchaeological Consultations: (career = 5)

Contracting Organization	Date
Department of National Defense and the The Centre for Missing Soldiers' Identification, Vimy Ridge, France	April 2007
Proyecto Cajamarquilla, Lima Peru	August 2001
Museo Túcume, <u>Túcume</u> , Peru	July 2001
Ontario Ministry of Citizenship, Culture & Recreation	May 2000
D.R. Poulton & Associates	January 1996

## Departmental, Faculty and University Service

### Administrative Appointments

Position	Unit	Dates Served
Associate Dean, Research and Operations	Faculty of Social Science	2010-2015
Acting Dean	Faculty of Social Science	multiple occasions
Graduate Chair	Department of Anthropology	2002-2007; Summer/Fall 2009
Acting Chair	Department of Anthropology	multiple occasions

### Department committees

Committee	Dates Served
Collections Committee	2015 & ongoing
APE/Workload Committee	2002 to 2005; 2017/18 & ongoing
Appointments Committee	2002 to 2005; 2016/17
Graduate Committee	1997 to 2007; 2009; 2016/17
First Year Anthropology Subcommittee	1997 to 2006
Occupational Health and Readiness	2002 to 2005
World Wide Web Committee	1997 to 2005
Promotion and Tenure Committee	1994/95; 2003-2005
Faculty Advisor to the Anthropology Society	1999 to 2003
Curriculum Subcommittee	1997 to 2002

### Faculty Committees

Committee	Dates Served
Faculty of Social Science – Sociology Chair Selection Committee	2018 -2019
Faculty of Social Science Nominating Committee	2018 & ongoing
Faculty Vanier Scholarship Committee	2016 & ongoing
Dean's Designate to the Board of the Museum of Ontario Archaeology	2013 & ongoing
Chair, Faculty of Social Science Awards/Research Committee (per ADR)	2010 to 2015
Dean's Designate – Data Resource Centre (per ADR)	2010 to 2015
Social Science representative to the Department of Geography, Promotion and Tenure Committee	2006 to 2008
Social Science representative to the Department of Pathology, Promotion and Tenure Committee	2005 to 2008
Social Science representative to the Faculty of Science Council	2005 to 2006
Alumni Awards Committee	2002 to 2003

## University Committees

Committee	Dates Served	Report Delivered
Animal Research Communications Policy Committee	2019 and ongoing	
Academic Fraud and Misconduct Committee	2019 and ongoing	
School of Graduate and Post-Graduate Studies Banting Post-Doctoral Fellowship advisory committee	2017 & ongoing	
Academics Without Borders	2016 & ongoing	
School of Graduate and Post-Graduate Studies Vanier Scholarship evaluation committee	2015 & ongoing	
Social Science representative to the MSK Organizational Committee of the Bone and Joint Institute	2010 & ongoing	
Bone and Joint Institute's Training and Education Committee	2017 to 2019	
<u>Chair</u> - URB Task Force Steering Committee; Support for Research in Social Sciences, Arts, and Humanities at Western	2015 to 2016	Interim report delivered January 2016 and final report delivered May 2016.
Academic Fraud and Misconduct Committee	2015-2016	December 2015
<u>SSHRC Leader</u> for Western University	2012 to 2015	
Society of Graduate and Post-Graduate Studies representative at large to Western Senate	2011 to 2015	
Senate - Operations and Agenda Committee	2012 to 2014	
Senate – Nominations Committee – alternate	2012 to 2014	
Senate – <u>Chair</u> – Nominations Committee	2014 to 2015	
Senate - Nominating Subcommittee to elect a General Community Representative	2012 to 2015	
Core Planning Group (per ADR)	2010 to 2015	
Animal Care Committee (per ADR)	2010 to 2015	
Associate Dean Committee (per ADR)	2010 to 2015	
Steering Committee Member – IDI in Digital Humanities (per ADR)	2010 to 2015	
Western Strategic Support Social Science and Humanities Research Board (per ADR)	2010 to 2015	
Health Resources Council (per ADR)	2010 to 2015	
<u>Chair</u> , Faculty of Graduate Studies SSHRC doctoral application report committee	2007-2008	Committee report “The SSHRC Doctoral Application at Western”, delivered March 2008
Faculty of Graduate Studies SSHRC doctoral application evaluation committee	2006-2010	
Faculty of Grad Studies Appeals Committee	2005	

## University Workshops Presented

Title	Venue and Format	Date
SSHRC Insight Grant Panel	Faculty of Social Science - panel discussion and Q&A	September 14, 2018
Writing Grant Applications	Writing Support Centre - presentation and Q&A for graduate students	April 2011, 2012, 2013, 2014 & 2018
Keeping Graduate Students on Track: Tips for Successful Supervision	The Teaching Support Centre - panel discussion and Q&A for faculty members	February 2017
The Social Science & Humanities Toolkit for Academia and Beyond	School of Graduate and Postgraduate Studies Scholars to Leaders lecture series - presentation to graduate students	November 2015
Preparing Research Grant Proposals: CIHR, NSERC, SSHRC	The Teaching Support Centre - presentation and Q&A for new faculty members	September 2011, 2012, 2013, 2014 & 2015
Interdisciplinary Research and the Academic Career SSHRC	The Teaching Support Centre - presentation and Q&A for faculty members	December 2011, 2012, 2013 & 2014
Stimulating Innovation	Western's Leaders' Retreat - presentation to Western's Senior Leadership	June 11, 2010
Graduate Development Workshop	The Teaching Support Centre - workshop for graduate students	November 2007