

# JUSTYNA J. MISZKIEWICZ, PhD

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Address: School of Social Science, University of Queensland, 4067 Brisbane, Queensland, Australia

## EDUCATION

November 2014 PhD in (Biological) Anthropology, University of Kent, Canterbury, UK  
Thesis: *Ancient Human Bone Histology and Behaviour*

November 2014 Postgraduate Certificate in Higher Education (PGCHE), University of Kent, Canterbury, UK

July 2010 Bachelor of Science, 1<sup>st</sup> Class Honours, University of Kent, Canterbury, UK  
Honours thesis: *Linear enamel hypoplasia and age-at-death in Medieval England*

## APPOINTMENTS

Oct 2023–present Lead Histologist, Palaeohistology Services, Brisbane, Australia

Jul 2023–Sept 2023 Researcher, Medical Repatriation Authority, Australian Government, Brisbane, Australia

Sept 2022–present Correspondent Researcher (2022–2023); Martin & Temminck Fellow (2022); Naturalis Biodiversity Center; Vertebrate Evolution, Development & Ecology, Leiden, The Netherlands

Jul 2021–present Honorary Senior Lecturer, School of Social Science, University of Queensland, Brisbane, Australia

Jan 2016–Sept 2022 ARC DECRA Fellow (2019–2022); Senior Lecturer (2020–2021); Lecturer (2016–2019) in Biological Anthropology, School of Archaeology & Anthropology, Australian National University, Canberra, Australia

Mar 2015–Jan 2016 Research Assistant, Department of Medicine, Imperial College London, London, UK

Jan 2009–Dec 2014 Osteologist (2012–2014); Assistant Osteologist (2009–2012), Kent Osteological Research & Analysis, Canterbury, UK

Sept 2007–Dec 2014 Honorary Research Associate (2016–present); Lecturer in Biological Anthropology (2013–2014); Graduate Teaching Assistant (2010–2013); Laboratory Demonstrator (2008–2010); Tutor (2007–2008), School of Anthropology & Conservation, University of Kent, Canterbury, UK

## EDITORIAL ROLES

2023–present Review Editor, *Human Bioarchaeology and Paleopathology (Frontiers in Environmental Archaeology)*

2023 Associate Editor, *Proceedings of the Royal Society of Queensland*

2022–2024 Editorial Board Member, *Scientific Reports*

2022–present Editorial Board Member, *Anthropological Review*

2022 Editor, *Proceedings of the Royal Society of Queensland*

## RESEARCH FUNDING (\*current)

\*2022 (2023–2026) **\$452,748 AUD** Australian Research Council Discovery Project—Co-Investigator: *Dispersing myths: Characterising human migration through Asia* (DP230100440) Australia

2022 **€6,520 EUR** Naturalis Biodiversity Center Martin & Temminck Fellowship—Principal Investigator: *Bone metabolism and dwarfism in insular hippopotamuses*, The Netherlands

\*2021 (2022–2024) **\$360,000 NZD** Marsden Fund Fast-Start—Associate Investigator: *Embodied Colonialism: Biohistories of 19th-century Pakeha and Chinese Migrants to New Zealand* (21-UOO-030) New Zealand

2021 **\$39,214 NZD** University of Otago Research Grant—Associate Investigator: *Living on the Edge: Health in a Marginal Community During the Protohistoric (500-800AD) Social Transition in Northeast Thailand*, New Zealand

2020 **\$16,420 AUD** Australian National University Intrepid Methodologies Strategic Theme—Co-Investigator: *Polythetic Micro-analytical Toolkit (PMT) for archaeological and bioanthropological sciences*, Australia

2018 (2019–2022) **\$381,210 AUD** Australian Research Council Discovery Early Career Researcher Award—Principal investigator: *Ancient bone metabolism change with lifestyle in Asia-Pacific* (DE190100068) Australia

2018 (2019–2021) **\$827,000 NZD** Marsden Fund Project Grant—Associate investigator: *The Best of Times, the Worst of Times: A Biocultural investigation of 19th century Frontier mining cemeteries in Australia, New Zealand and California* (18-UOO-028) New Zealand

2018 **\$135,000 AUD** Australian National University Major Equipment Grant—Principal investigator: *Microscopy of the primate skeleton* (18MEC26) Australia

2017 **\$2,500 AUD** Australian National University CASS Small Research Grant—Co-investigator: *In utero changes in human tooth microstructure*, Australia

2016 **\$8,000 AUD** Australian National University CASS Research Hub Grant—Principal investigator: *Bone palaeometabolism in prehistoric Indonesia*, Australia

#### **TRAVEL FUNDING**

2018 **\$2,491 AUD** Australian National University RSHA Conference Travel Grant to Austin, TX, US

2017 **\$1,580 AUD** Australian National University RSHA Conference Travel Grant to Melbourne/Ballarat, Australia

2017 **\$2,248 AUD** Australian National University RSHA Conference Travel Grant to NYC, NY/ Trenton, NJ, US

2016 **\$2,500 AUD** Australian National University RSHA Conference Travel Grant to New Orleans, LA, US

2016 **\$3,000 AUD** Australian National University ECR Travel Grant to Atlanta, GA, US

2013 **\$500 USD** William Pollitzer Award, American Association of Physical Anthropologists to Knoxville, TN, US

2012 **\$500 USD** William Pollitzer Award, American Association of Physical Anthropologists to Portland, OR, US

#### **AWARDS AND PRIZES**

2024 Trail-Crisp Award, The Linnean Society of London

2022 Martin & Temminck Fellowship, Naturalis Biodiversity Center, The Netherlands

2019 Discovery Early Career Researcher Award, Australian Research Council

2018 Nomination, Vice-Chancellor's Award for Teaching Excellence, Australian National University

2018 Nomination, CASS Awards for Excellence in Education, Australian National University

2017 Nomination, CASS Awards for Excellence in Education, Australian National University

2016 ABACUS Certificate for Significant Contribution to the Student Body Student, Australian National University

2015 Nomination and Shortlist, Postgraduate Teaching Award, University of Kent, UK

2013 Nomination and Shortlist, Postgraduate Teaching Award, University of Kent, UK

2014 Fellowship, Higher Education Academy, UK

2013 William Pollitzer Award, American Association of Physical Anthropologists, US

2012 William Pollitzer Award, American Association of Physical Anthropologists, US

**PUBLICATIONS (63)** h-index = 17, citations = 894  
(research students underlined)

#### **Edited books & volumes (3)**

63. Louys J, Miszkiewicz JJ (2023) *Proceedings of the Royal Society of Queensland, volume 132*. The Royal Society of Queensland, Brisbane.

62. Miszkiewicz JJ. (2022) *Proceedings of the Royal Society of Queensland, volume 131*. The Royal Society of Queensland, Brisbane.

61. Miszkiewicz JJ, Brennan-Olsen S, Riancho-Morale JA. (2019) *Bone Health: A Reflection of the Social Mosaic*. Springer Nature Medicine, Singapore.

#### **Journal articles (50)**

60. Dias Guimarães NR, Miszkiewicz JJ. (**In press 2024**). Mobility patterns in Grande Abrigo de Santana do Riacho, Minas Gerais, Brazil: Insights from histomorphometric analysis of skeletal remains. *Revista de Arqueologia*

59. Koh NYY, Miszkiewicz JJ, Fac ML, Wee NKY, NA Sims. (**In press 2024**). Preclinical rodent models for human bone disease including a focus on cortical bone. *Endocrine Reviews*

58. Basilía P, Miszkiewicz JJ, Louys J, Wibowo UP, van den Bergh GD. (2024). Insights into dwarf stegodon (*Stegodon floresiensis floresiensis*) palaeobiology based on rib histology. *Annales de Paleontologie* 109(4): 102654.

57. Pedersen LT, **Miszkiwicz** J, Cheah LC, Willis A, Domett KM. (In press 2024). Age-dependent change and intraskeletal variability in secondary osteons of elderly Australians. *Journal of Anatomy*
56. **Miszkiwicz** JJ, Andronowski JM, Schotsmans EMJ. (2024). Comment on “Assessing the extent of bone bioerosion in short timescales – A novel approach for quantifying microstructural loss”. *Quaternary International* 685: 39–43.
55. Snoddy AME, Shaw H, Newman S, **Miszkiwicz** JJ, Stewart NA, Jakob T, Buckley H, Caffell A, Gowland R. (2024). Vitamin D status in post-medieval Northern England: Insights from dental histology and enamel peptide analysis at Coach Lane, North Shields (AD 1711-1857). *PLOS one* 19(1): e0296203.
54. **Miszkiwicz** JJ, Athanassiou A, Lyras GA, van der Geer A. (2023). Rib remodelling changes with body size in fossil hippopotamuses from Cyprus and Greece. *Journal of Mammalian Evolution* 30: 1031–1046.
53. Ward SM, Barker A-CL, Shoocongdej R, Wangthongchaicharoen N, **Miszkiwicz** JJ, King Charlotte L, Halcrow SE. (2023) Investigating the Effectiveness of Online Bioarchaeology Education Through Participant Survey of a Cohort of International Adult Learners. *Advances in Archaeological Practice* 11(4): 421–433.
52. Walker MM, Oxenham MF, Vlok M, Matsumura H, Huong NTM, Trinh HH, Minh TT, **Miszkiwicz** JJ. (2023). Human femur morphology and histology variation with ancestry and behaviour in an ancient sample from Vietnam. *Annals of Anatomy* 247: 152054.
51. Louys J, Cramb J, Ferguson K, Kemp J, Wood R, **Miszkiwicz** JJ, Dias Guimarães NR, Higgins P, Travouillon KJ, Hocknull SA, Webb GE, Price GJ. (2023). Interim report of the vertebrate deposits recovered from the Capricorn Caves, Rockhampton, Queensland. *Alcheringa: An Australasian Journal of Palaeontology* 47(4): 562-589.
50. Basilina P, **Miszkiwicz** JJ, Nganvongpanit K, Zaim J, Rizal Y, Aswan, Puspaningrum M, Trihascaryo A, Price G, van der Geer AAE, Louys J. (2023). Bone histology in a fossil elephant (*Elephas maximus*) from Pulau Bangka, Indonesia. *Historical Biology* 35(8): 1356–1367.
49. Walker MM, Oxenham M, Huong Nguyen TM, Trinh HH, Minh TT, Cuong Nguyen L, Matsumura H, **Miszkiwicz**, J.J. (2023). Primary bone retention in a young adult male with limb disuse: a bioarchaeological case study. *Historical Biology* 35(2): 235–241.
48. Snoddy AME, **Miszkiwicz** JJ, Cooke KM, Petchey P, Buckley H. (2022). Bone remodelling changes in an individual with tuberculosis induced left-sided femoro-acetabular joint destruction, from 19th century Milton, New Zealand. *Bioarchaeology International* 6(3): 161–174.
47. **Miszkiwicz** JJ, Buckley HR, Feldman M, Kiko L, Carlhoff S, Naegele K, Bertolini E, Dias Guimarães NR, Walker MM, Powell A, Posth C, Kinaston RL. (2022). Female bone resilience in a past Polynesian outlier community. *Scientific Reports* 12: 18857.
46. **Miszkiwicz** JJ, Stewart TJ, Naseri R, Soltysiak A. (2022). The lifestyles of Bronze Age Zagros highlanders at Deh Dumen, Iran: insights from midshaft femur cross-sectional geometry and histology. *Archaeometry* 64(5): 1270–1287.
45. **Miszkiwicz** JJ, Louys J, Mahoney P. (2022). Cartesian coordinates in two-dimensional bone histology images for Quaternary bone remodelling research. *Open Quaternary* 8(12): 1–13.
44. **Miszkiwicz** JJ, Matisoo-Smith L, Weisler M. (2022). Behaviour and intra-skeletal remodelling in an adult male from 1720 BP Ebon Atoll, Marshall Islands, eastern Micronesia. *Journal of Island & Coastal Archaeology* 17(3): 445–459.
43. Cooke K, Mahoney P, **Miszkiwicz** JJ. (2022). Secondary osteon variants and remodelling in human bone. *The Anatomical Record* 305(6): 1299–1315.
42. **Miszkiwicz** JJ, van der Geer AE. (2022). Inferring longevity from advanced rib remodelling in insular dwarf deer. *Biological Journal of the Linnean Society* 136(1): 41–58.
41. Snoddy AME, King CL, Petchey P, **Miszkiwicz** JJ, Kinaston R, Buckley HR. (2021) Disability and difference on the New Zealand frontier: Possible skeletal dysplasia in 19th century Milton, Otago. *Bioarchaeology International* 5(3–4): 157–174

40. Campbell B, Price GJ, Louys J, **Miszkievicz JJ**. (2021). Crocodile tooth histology from a Pliocene deposit in Chinchilla, Queensland. *Proceedings of The Royal Society of Queensland* 129: 37–46.
39. Mahoney P, McFarlane G, Smith BH, **Miszkievicz JJ**, Cerrito Paola, Liversidge H, Mancini L, Dreossi D, Veneziano A, Bernardini F, Cristiani E, Behie A, Coppa A, Bondioli L, Frayer D, Radovčić D, Nava A. (2021). Growth of Neanderthal infants from Krapina (120-130 ka), Croatia. *Proceedings of the Royal Society B: Biological Sciences* 288(1963): 1–8.
38. Westaway MC, Williams D, Lowe K, Wright NJ, Kerkhove R, Silcock J, Gorringer J, **Miszkievicz J**, Wood R, Adams R, Manne T, Adams S, Miscamble T, Stout J, Wrobel GD, Kemp J, Hendry B, Gorringer M, Gorringer B, Lander K, Gorringer S, Andrews I, Collard M. (2021). Hidden in plain sight: the archaeological landscape of Mithaka Country, south-west Queensland. *Antiquity* 95(382): 1043–1060.
37. Stewart TJ, Louys J, **Miszkievicz JJ**. (2021). Intra-skeletal vascular density in a bipedal hopping macropod with implications for analyses of rib histology. *Anatomical Science International* 96: 386–399.
36. Drew ER, Mahoney P, **Miszkievicz JJ**. (2021). Osteocyte lacuno-canalicular microstructure across the midshaft femur in adult males from Medieval England. *International Journal of Osteoarchaeology* 31(2): 176–187.
35. Vlok M, Buckley HR, **Miszkievicz JJ**, Walker MM, Domett K, Willis A, Trinh HH, Minh TT, Huong NTM, Nguyen LC, Matsumura H, Wang T, Nghia HT, Oxenham MF (2021). Forager and farmer evolutionary adaptations to malaria evidenced by 7000 years of thalassemia in Southeast Asia. *Scientific Reports* 11: 5677.
34. **Miszkievicz JJ**, Valentin F, Vrahnas C, Sims NA, Vongsvivut P, Tobin MJ, Clark G. (2021). Bone loss markers in the earliest Pacific islanders. *Scientific Reports* 11: 3981.
33. Walker MM, Louys J, Herries AIR, Price GJ, **Miszkievicz JJ**. (2021). Humerus midshaft histology in a modern and fossil wombat. *Australian Mammalogy* 43(1): 30–39.
32. Snoddy AME, **Miszkievicz JJ**, Loch C, Tromp M, Buckley H. (2021). An image analysis protocol for the quantification of interglobular dentine in anthropological tooth sections. *American Journal of Physical Anthropology* 174(1): 144–148.
31. **Miszkievicz JJ**, Rider C, Kealy S, Vrahnas C, Sims NA, Vongsvivut P, Tobin MJ, Bolunia MJLA, De Leon AS, Peñalosa AL, Pagulayan PS, Soriano AV, Page R, Oxenham MF. (2020). Asymmetric midshaft femur remodelling in an adult male with left sided hip joint ankylosis, Metal Period Nagsabaran, Philippines. *International Journal of Paleopathology* 31: 14–22.
30. Miszkiewicz JJ. (2020). The importance of open access software in the analysis of bone histology in biological anthropology. *Evolutionary Anthropology* 29(4): 165–167.
29. Mahoney P, McFarlane G, Pitfield R, O'Hara M, **Miszkievicz JJ**, Deter C, Seal H, Guatelli-Steinberg D. (2020). A structural biorhythm related to human sexual dimorphism. *Journal of Structural Biology* 211 (2): 107550.
28. **Miszkievicz JJ**, Louys J, Beck R, Mahoney P, Aplin K, O'Connor S. (2020) Island rule and bone metabolism in fossil murines from Timor. *Biological Journal of the Linnean Society* 129 (3): 570–586.
27. Bridge AB, Oxenham M, **Miszkievicz JJ**. (2020) Estimating stature using human long bone anthropometric data in an Australian female sample. *Australian Journal of Forensic Sciences* 52 (1): 83–95.
26. Behie AM, **Miszkievicz JJ**. (2019) Enamel neonatal line thickness in deciduous teeth of Australian children from known maternal health and pregnancy conditions. *Early Human Development* 137: 104821.
25. **Miszkievicz JJ**, Cooke KM. (2019) Socio-economic determinants of bone health from past to present. *Clinical Reviews in Bone and Mineral Metabolism* 17: 109–122.
24. **Miszkievicz JJ**, Louys J, O'Connor S. (2019) Micro-anatomical record of cortical bone remodeling and highly vascularity in a fossil giant rat midshaft femur. *The Anatomical Record* 302(11): 1934–1940.
23. Pitfield R, **Miszkievicz JJ**, Mahoney P. (2019) Microscopic markers of an infradian biorhythm in human juvenile ribs. *Bone* 120: 403–410.
22. Dempsey N, Gilbert F, **Miszkievicz JJ**, Oxenham M. (2019) Biomechanical analysis of controlled tibial blunt force trauma. *Australian Journal of Forensic Sciences* 51(5): 538–548.

21. **Miszkievicz JJ, Mahoney P. (2019)** Cortical histomorphometry and bone robusticity of the adult human femur. *Journal of Bone and Mineral Metabolism* 37(1): 90–104.
20. Mahoney P, **Miszkievicz JJ, Chapple S, Le Luyer M, Schlecht SH, Stewart TJ, Deter C, Guatelli-Steinberg. (2018)** The biorhythm of human skeletal growth. *Journal of Anatomy* 232(1): 26–38.
19. Fahy GE, Deter CA, Pitfield R, **Miszkievicz JJ, Mahoney P. (2017)** Bone deep: variation in stable isotope ratios and histomorphometric measurements of bone remodeling within adult humans. *Journal of Archaeological Science* 87: 10–16.
18. **Pitfield R, Miszkievicz JJ, Mahoney P. (2017)** Cortical histomorphometry of the human humerus during ontogeny. *Calcified Tissue International* 101: 148–158.
17. Mahoney P, **Miszkievicz JJ, Deter CA, Guatelli-Steinberg D. (2017)** Enamel biorhythms of humans and great apes: the Havers-Halberg Oscillation hypothesis reconsidered. *Journal of Anatomy* 230: 272–281.
16. Mahoney P, **Miszkievicz JJ, Pitfield R, Schlecht SH, Deter C, Guatelli-Steinberg D. (2016)** Biorhythms, deciduous enamel thickness, and primary bone growth in modern human children: a test of the Havers-Halberg Oscillation hypothesis. *Journal of Anatomy* 228: 919–928.
15. Mahoney P, Schmidt CW, Deter C, Remy A, Slavin P, Johns SE, **Miszkievicz JJ, Nystrom P. (2016)** Deciduous enamel 3D microwear texture analysis as an indicator of childhood diet in medieval Canterbury, England. *Journal of Archaeological Science* 66: 128–136.
14. **Miszkievicz JJ, Mahoney P. (2016)** Bone microstructure in medieval England: comparisons between two socio-economic groups. *Anatomical Record* 299: 42–59.
13. **Miszkievicz JJ. (2016)** Investigating histomorphometric relationships at the human femoral midshaft in a biomechanical context. *Journal of Bone and Mineral Metabolism* 34: 179–192.
12. **Miszkievicz JJ. (2015)** Histology of a Harris line in a human distal tibia. *Journal of Bone and Mineral Metabolism* 33: 462–466.
11. **Miszkievicz JJ. (2015)** Linear enamel hypoplasia and age-at-death at Medieval (11th-16th centuries) St. Gregory's Priory and Cemetery, Canterbury, UK. *International Journal of Osteoarchaeology* 25: 79–87.

#### **Book chapters (10)**

10. **Basilija P, Miszkievicz JJ, Zaimd J, Rizald Y, Aswand, Pupangingrund MR, Trihascaryod A, Price G, Louys J. (in press 2024).** Investigating super osteons in fossil Asian elephant (*Elephas maximus*) bone from Bangka Island, southeast Sumatra. *Quaternary Palaeontology and Archaeology in Sumatra*. Canberra ANU Press: Terra Australis.
9. DeMars LJD, Torres-Tamayo N, Hirst C, **Miszkievicz JJ. (2023).** Bone biology and microscopic changes in response to behaviour. In: Hirst C, Gilmour R, Plomp K, Alves Cardoso F (eds) *Behaviour in Our Bones: How Human Behaviour Influences Skeletal Morphology*. Elsevier Academic Press. pp. 7–38.
8. Brennan-Olsen SL, Riancho JA, **Miszkievicz JJ. (2019)** The social context of bone health: conclusions and future directions. In: Miszkievicz JJ, Brennan-Olsen S, Riancho JA. *Bone Health: A reflection of the Social Mosaic*. Springer Medicine: Singapore. pp. 177-181.
7. **Walker MM, Street E, Pitfield R, Miszkievicz JJ, Brennan-Olsen S, Mahoney P. (2019)** Ancient human bone microstructure case studies from medieval England. In: Miszkievicz JJ, Brennan-Olsen S, Riancho JA. 2019 *Bone Health: A reflection of the Social Mosaic*. Springer Medicine: Singapore. pp. 35–52.
6. **Miszkievicz JJ, Stewart TJ, Deter CA, Fahy G, Mahoney P. (2019)** Skeletal health in medieval societies: Insights from bone collagen stable isotopes and dental histology. In: Miszkievicz JJ, Brennan-Olsen S, Riancho JA. 2019 *Bone Health: A reflection of the Social Mosaic*. Springer Medicine: Singapore. pp. 15–32.
5. **Miszkievicz JJ. (2019)** The effect of English Medieval socio-economic status inequality on bone health – what can we learn for the living? In: Miszkievicz JJ, Brennan-Olsen S, Riancho JA. 2019 *Bone Health: A reflection of the Social Mosaic*. Springer Medicine: Singapore. pp. 3–15.

4. Wyatt B, **Miszkievicz JJ**. (2019) Skeletal markers of health and disease in the Northern Moluccas. In: Bellwood P (ed) *The Spice Islands in Prehistory: Archaeology in the Northern Moluccas, Indonesia*. Canberra ANU Press: Terra Australis, pp. 201–209.
3. Kinaston R, Willis A, **Miszkievicz JJ**, Tromp M, Oxenham MF. (2019) The Dentition: Development, Disturbances, Disease, Diet, and Chemistry. *Orner's Identification of Pathological Conditions in Human Skeletal Remains*. Elsevier: Academic Press pp. 1–58.
2. **Miszkievicz JJ**, Mahoney P. (2017) Human bone and dental histology in an archaeological context. In: Thompson T, Erricksen D (Eds) *Imaging Human Remains: Another Dimension*. Elsevier: Academic Press pp. 29–43.
1. Mahoney P, **Miszkievicz J**. (2015) Formation Times in Thermally Altered Enamel. In: Schmidt, C. (Eds). *The Analysis of Burned Human Remains* (2nd ed). Elsevier: Academic Press. 20, 355–363.

**SEE APPENDIX:** Published abstracts, non-refereed publications and reports, published images, conferences

#### Invited speaker (26)

- 2023 Victorian Institute of Forensic Medicine, Melbourne, Australia: *Bone biology*
- 2022 Naturalis Biodiversity Center, Leiden, Netherlands: *Histology of fossil mammals on islands*
- 2022 Paleontology of insular mammals Symposium at 19th European Association of Vertebrate Palaeontologists Conference, Benevento/Pietraraja, Italy: *Hints of increased longevity in extinct insular dwarf deer* **Miszkievicz JJ**, van der Geer AE
- 2022 6<sup>th</sup> International Paleontological Congress, Khon Kaen, Thailand: *Osteocyte lacunae density gradient in dwarf hippos from Europe*, **Miszkievicz JJ**, van der Geer AE
- 2022 Australian National University, Canberra, Australia: *Ancient human bone histology and behaviour in Holocene Asia-Pacific*
- 2021 Australasian Society for Human Biology conference panel (online): *Improving maternal health research by increasing interdisciplinary collaborations*
- 2021 University of Queensland, Brisbane, Australia: *Multi-methodological approaches to reconstructing bone loss in ancient humans from Asia-Pacific*
- 2021 Australian Synchrotron Microscopy Group Workshop (online): *Using sFTIRM data from archaeological human bone to reconstruct health and disease in our recent past*.
- 2021 Adam Mickiewicz University, Poznan, Poland (online): *How does ancient human bone histology shed light on modern bone health problems?*
- 2021 University of Warsaw, Poland (online): *Applications of bone histology in bioarchaeology*,
- 2021 Keynote at 12<sup>th</sup> Experimental Archaeology Conference (online): *An interdisciplinary approach into understanding natural mummification and superficial desiccation of human remains: experiments at the Australian Facility for Taphonomic Experimental Research*. Schotsmans EMJ, Dawson BM, Forbes SL, Knüsel CJ, Luong S, **Miszkievicz JJ**, Prinsloo LC, Roberts RG, Stewart TJ, Stuart BH, Thomas P, Ueland M, Wallman JF, Watson CJ.
- 2021 Victorian Institute of Forensic Medicine, Melbourne, Australia (online): *Human femur remodelling and lifestyle in historical and 20<sup>th</sup> century autopsy samples*.
- 2020 Pennsylvania State University, PA, US (online): *Bone histology and cross-sectional geometry*.
- 2019 University of Otago, Dunedin, New Zealand: *Recent advancements in the application of histology within Biological Anthropology*.
- 2019 University of Queensland, Brisbane, Australia: *Applications of Bone Histology in Bioarchaeology*.
- 2019 Adam Mickiewicz University, Poznan, Poland: *Reconstructing Past Human Behaviour from Bone Microstructure*.
- 2019 Recent Advancements in the Analysis of Bone Microstructure symposium, Cleveland, OH, US: *Skeletal Microstructure Growth Dynamics in Ancient Humans and Fossil Rats from Indonesian Islands*.
- 2019 University of Kent, Canterbury, UK: *Human Bone Metabolism Change with Lifestyle in Holocene Asia-Pacific*.
- 2017 World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases, Florence, Italy: *Bone Health: A Reflection of the Social Mosaic*.
- 2016 Joint Annual Scientific Meetings of the Endocrine Society of Australia, the Society for Reproductive Biology and the Australian and New Zealand Bone and Mineral Society, Gold Coast, Australia: *Bone Health and Social Status*.
- 2016 Melbourne Dental School, University of Melbourne. Melbourne, Australia: *Anthropological Analyses of Human Bone Microstructure*.
- 2016 Archaeological Research Centre, Australian National University, Canberra, Australia: *Bone Microstructure in Bioarchaeology*.
- 2014 Max Planck Institute for Evolutionary Anthropology. Leipzig, Germany: *Ancient Bone Histology and Behaviour*.
- 2012 Department of Archaeology, University of Sheffield, Sheffield, UK: *Skeletal Histology in Bioarchaeology*.

- 2012 Durrell Institute for Conservation and Ecology, Canterbury, UK: *Skeletal Indicators of Stress: Applications in Conservation Science*.
- 2011 Developmental Variation of Primate Dentition, Symposium in Honour of Donald Reid, Minneapolis, MN, US: *Linear Enamel Hypoplasia in Medieval Canterbury*.

## PEER REVIEW

### Ongoing

- 2019–present: Grant assessor for Natural Sciences and Engineering Research Council of Canada, European Science Foundation, Australian Research Council, Australasian Society for Human Biology, American Association of Biological Anthropologists, Austrian Science Fund
- 2012–present: Peer reviewer for journals *Biology Letters*, *Bone*, *International Journal of Endocrinology*, *American Journal of Biological Anthropology*, *Journal of Anatomy*, *Journal of Morphology*, *International Journal of Osteoarchaeology*, *International Journal of Palaeopathology*, *PLoS ONE*, *AIMS Public Health*, *Journal of Comparative Human Biology*, *Comptes Rendus Palevol*, *Alcheringa: Australasian Journal of Palaeontology*, *Encyclopaedia of Global Archaeology*, *Reviews on Environmental Health*, *Scientific Reports*, *Contributions to Zoology*, *Anthropological Review*, *Journal of Mammalian Evolution*, *Journal of Regional Centre for Archaeology and Fine Arts*, *Proceedings of The Royal Society of Queensland*, *The Anatomical Record*, *Frontiers in Earth Science*, *Palaeoworld*, *Archaeometry*, *PeerJ*, *Journal of Anthropological Sciences*

### Thesis examiner (since 2015)

- 3 PhD theses (University of Western Australia, University of Otago, Flinders University)
- 1 MPhil thesis (University of Cape Town)
- 7 Masters theses (University of Otago, Australian National University)
- 14 Honours theses (Australian National University, Monash University, University of Queensland, University of Melbourne, University of Wollongong)

### CURRENT SUPERVISEES (5)

- 2023 Kane White (**Masters**) Co-supervisor, Australian National University
- 2023 Lucy Henderson (**PhD**) Committee Member, University of Otago
- 2022 Yuxuan Tan (**Masters**) Co-supervisor, University of Melbourne
- 2018 Tahlia Stewart (**PhD**) Primary supervisor, Australian National University
- 2017 Nicole MacFarlane (**PhD**) Co-supervisor, Australian National University

### ALUMNI

#### Visiting post-docs

- 2019–2021 Dr Eline Schotsmans, University of Wollongong; University of Bordeaux (EU Marie Curie fellowship)
- 2019–2021 Dr Annie Sohler-Snoddy, University of Otago (NZ Marsden Grant fellowship)

### Honours, Masters, MPhil, PhD (25)

- 2023 Karen Cooke (**PhD**) Primary supervisor, Australian National University  
*Palaeohistopathology of treponematoses in human bone*
- 2023 Channon Briar (**Honours**) Co-supervisor, University of Queensland  
*Investigating bone histotaphonomy at archaeological Canterbury, UK*
- 2023 Jessica Satterley (**Honours**) Co-supervisor, University of Queensland  
*Treponematoses in ancient Motupore, Papua New Guinea*
- 2023 Lucille Pederson (**PhD**) External supervisor, James Cook University  
*The effects of aging in bone macro- and microstructure of two populations in the Asia-Pacific region*
- 2023 Pauline Basilia (**PhD**) Co-supervisor, Griffith University  
*Rib remodelling in Pleistocene insular elephants and stegodons*
- 2022 Alejandra Katherine Cares Henriquez (**PhD**) Australian National University  
*New quantitative methods for the analysis of linear enamel hypoplasia in bioarchaeology*
- 2022 Jamie Tromp (**Honours**) Co-supervisor, University of Queensland  
*Bone health and anorexia nervosa*
- 2022 James Callanan (**Honours**) Co-supervisor, University of Melbourne  
*Femoral head and sex estimation*
- 2021 Lauren Meckel (**PhD**) University of Otago, New Zealand: Co-Supervisor  
*Structural Violence in Éire: The Bone Histology of Victims from the Great Famine (Kilkenny, Ireland 1845-1852)*
- 2021 Madeleine Fleming (**MPhil**) Australian National University: Co-supervisor  
*Investigation of type 2 diabetic trabecular compensation in femoral bone of the NOD-B10 foz/foz mouse*
- 2019 Dr Sarah Robertson (**PhD**) Australian National University: Primary Supervisor  
*Differential diagnosis of cribra orbitalia at Christ Church Spitalfields via micro-CT analysis.*
- 2019 Nathalia Dias Guimaraes (**Masters**) Australian National University: Primary Supervisor  
*Ancient human bone histology at Santana do Riacho, Brazil*

2019 Hannah Miles (**Masters**) Australian National University: Primary Supervisor  
*Osteocyte lacunae morphology in ancient human bone*

2019 Kate Phillips (**Masters**) Australian National University: Co-supervisor  
*Relationship of Sex, Age, and Physical Activity to Bone Maintenance and Loss: Implications for Bioarchaeology*

2019 Meg Walker (**Masters**) Australian National University: Primary Supervisor  
*Ancient human behaviour and ancestry in Holocene northern Vietnam*

2018 Diana Tieppo (**Masters**) Australian National University: Primary Supervisor  
*Investigating sex-specific variation in bone microstructure of the midshaft endo-cortex in the human femur*

2018 Shannelle James (**Masters**) Australian National University: Primary Supervisor  
*Femoral muscle markings and endosteal cortex bone remodelling*

2018 Danielle Rosenquist (**Masters**) Australian National University: Primary Supervisor  
*Digital Bones: Differential Remodelling Activity in the Phalanges of the Hands and the Feet*

2018 Tara Mann (**Honours**) Australian National University: Primary Supervisor  
*Tibia vara and obesity*

2017 Stephanie Robinson (**Masters**) Australian National University: Primary Supervisor  
*Chalcolithic Wedge Tombs and an Iron Age Burial*

2017 Bronwyn Wyatt (**Masters**) Australian National University: Primary Supervisor  
*Health and disease in prehistoric Indonesia*

2017 Claire Rider (**Masters**) Australian National University: Primary Supervisor  
*Hip joint pathology and lower limb skeletal adaptation: a case study from the Metal Period Philippines*

2016 Natasha Langley (**Masters**) Australian National University: Primary Supervisor  
*The effects of experimental burning on *Sus scrofa* dental enamel in forensic and archaeological contexts*

2016 Ashley Bridge (**Masters**) Australian National University: Primary Supervisor  
*Looking at new ways to identify stature in forensics using contemporary Australian Anthropometric data*

2014 Rosie Pitfield (**Masters**) University of Kent: Co-supervisor  
*Histomorphometry of the human humerus during ontogeny*

#### **Research Assistants**

2022 Karen Cooke, ARC DECRA Research Assistant, Australian National University

2022 Tahlia Stewart, ARC DECRA Research Assistant, Australian National University

2022 Laurie Vink, Research Volunteer, University of Queensland

2022 Charlotte-Lilly Andersen, Research Volunteer, University of Queensland

2014 Rachel Downes, Research Volunteer, University of Kent

2014 Paula Fuente, Research Volunteer, University of Kent

2014 Rosie Pitfield, Research Volunteer, University of Kent

#### **PROGRAM CONVENOR**

##### **Convening of four Masters programs at Australian National University**

*Master of Archaeological & Evolutionary Science* (2018–2021)

*Master of Archaeological & Evolutionary Science Advanced* (2018–2021)

*Master of Biological Anthropology* (2016–2018)

*Master of Biological Anthropology Advanced* (2016–2021)

#### **COURSE CONVENOR (12 courses)**

##### **Australian National University (2016–2020):**

1. ARCH8037 *Masterclass in Dental Anthropology* (PG) Winter Session 2019
2. BIAN2015/6517 *Human Skeletal Analysis* (2<sup>nd</sup> year UG, and PG) Semester 1 2016–2018
3. BIAN3125/6512 *Ancient Health and Disease* (3<sup>rd</sup> year UG, and PG) Semester 2 2016, 2018, 2020
4. ARCH8040 *Microanalysis in Archaeological Science* (PG histology module) Semester 1 2018
5. BIAN2128/6515 *Forensic Anthropology and Archaeology* (2<sup>nd</sup> year UG, and PG) Semester 2 2017
6. BIAN8010 *Ancient Behaviour: Advanced Topics in Bioarchaeology* (PG) Semester 2 2017, 2018
7. BIAN4010 *Theory Seminar in Biological Anthropology* (Honours seminars) Semester 1 2016, 2017
8. BIAN4011 *Data Analysis and Methods in Biological Anthropology* (Honours, PG, PhD) Semester 1 2018
9. BIAN3129 *Supervised Research Project in Biological Anthropology* (UG) Semesters 1, 2, 2016–2020

##### **University of Kent, UK (2013–2014):**

10. SE302 *Foundations of Biological Anthropology* (1<sup>st</sup> year UG) Autumn–Spring 2013–2014
11. SE581 *The Human Animal* (2<sup>nd</sup> year UG) Autumn 2014
12. SE541 *Evolution of Hominin Behaviour* (3<sup>rd</sup> year UG) Spring 2014

#### **CONTRIBUTION TO COURSES (20 courses)**

##### **Griffith University (2023):**

Guest lectures on bone and tooth histology in archaeology:

1. 3065ESC Topics in Archaeology

**University of Queensland (2021–2022):**

Guest lectures on histology in bioarchaeology:

2. ARCS2000 *Science in Archaeology* (UG) Semester 1 2022
3. ARCS3168 *Human Evolution* (UG) Semester 1 2022
4. ACRS2003 *Forensics: The Archaeology of Death and Crime Scenes* (UG) Summer 2021
5. ARCS2070 *Bioarchaeology: Human Remains and Ancient Disease* (UG) Semester 2 2021

**La Trobe University (2021):**

Guest lectures on bone and tooth histology in archaeology:

6. ARC2SCI *Introduction to Archaeological Science* (UG) Semester 2 2021

**Victorian Institute of Forensic Medicine (2019, 2022, 2023):**

Guest lectures on bone biology in forensics:

7. *Introduction to Human Osteology* (accreditation 28 scientific hours / CPD points)

**Australian National University (2016–2021):**

Guest lectures on human osteology, and osteological analysis in forensics and/or archaeology:

8. ARCH8032 *Introduction to Archaeological and Evolutionary Science* (PG) Semester 1 2017, 2018, 2020, 2021
9. ARCH1001 *Archaeology Uncovered* (1<sup>st</sup> year UG) Semester 1 2016–2018
10. BIAN1001 *Human Voyage: Introduction to Biological Anthropology* (1<sup>st</sup> year UG) 2017–2018, 2020
11. ARCH1112 *From Origins to Civilizations* (1<sup>st</sup> year UG) 2016–2018

Guest lectures on human bone health, lifestyle, and diet:

12. BIAN2119 *Nutrition, Disease and the Environment* (2<sup>nd</sup> year UG, and PG) 2017–2018

Supervisor of reading projects:

13. ARCH8038 *Graduate Reading Course in Archaeology* (PG) 2016–2018

**University of Kent (2007–2014):**

14. SE533 *Project in Anthropological Science* (3<sup>rd</sup> year UG) 2013–2014

Tutorials in statistics and methodology:

15. SE806 *Research Methods in Anthropology* (PG) 2013
16. SE567 *Methodology in Anthropological Science* (3<sup>rd</sup> year UG) 2010–2011
17. SE300 *Computing for Anthropologists* (2<sup>nd</sup> year UG) 2007

Laboratory demonstrations in musculo-skeletal anatomy and pathology:

18. SE569 *Palaeopathology* (3<sup>rd</sup> year UG) 2010–2014
19. PS502 *Forensic Archaeology* (3<sup>rd</sup> year UG) 2010–2013
20. SE566 *Human Osteology* (2<sup>nd</sup> year UG) 2009–2014

**SERVICE****University**

2021–*present* Co-leader, Bioarchaeology and Osteology Network (BONE) Research Group, University of Queensland

2021–2022 Assessor of human skeletal remains in the Medical School, Australian National University

2021–2021 Head of Discipline, Australian National University, Canberra, Australia

2020–2020 Acting Head of Discipline, Australian National University, Canberra, Australia

2020–2022 School Mental Health First Aider, Australian National University

2020–2021 Research Theme Leader, Intrepid Methodologies, Australian National University

2020–2021 Contributor, Methodological adaptations during COVID, Australian National University

2019–2021 Member, Collections Committee, Australian National University

2019–2021 Member, Emergency Planning Committee, Australian National University

2019–2020 Co-chair, Social Impact Portfolio, Australian National University

2019–2021 Internal peer reviewer, ARC submissions (DECRAAs, DPs), Australian National University

2019–2019 Contributor, DECRA research training, Australian National University

2019–2019 Contributor, Research Engagement & Performance Training, Australian National University

2017–2021 School First Aid Officer and Fire Warden, Australian National University

2017–2020 Coordinator, 3 Bio-Anthropology public lectures (funded \$1,410), Australian National University

2016–2020 Coordinator, 45 Bio-Anthropology seminars (funded \$25,422), Australian National University

2016–2018 Member, Media and Outreach Committee, Australian National University

2016–2022 Histology lab leader (training, protocols, equipment, management), Australian National University

2013–2014 Career contributor to marketing material, University of Kent

2013–2014 Coordinator of public lectures, University of Kent

2012–2013 Student coordinator of social media, University of Kent

2013–2014 Workshop instructor *Designing an effective conference poster*, University of Kent

2011–2013 Student contributor to marketing material, University of Kent

## Research Community

2025 Chair and organiser *7<sup>th</sup> International Symposium on Palaeohistology*, Brisbane, Australia  
2022 Chair and organiser *Early Career Researcher Showcase*, The Royal Society of Queensland (online)  
2021 Chair and organiser *Early career perspectives on histology applied to archaeological, historical, and post-mortem samples of human skeletal remains*. 35th Annual Conference of the Australasian Society for Human Biology (online)  
2021 Workshop instructor, *Getting your research out there!* Thai Bioarchaeology Project (online)  
2021 Workshop instructor, *Applying for a NZ ECR Fellowship*, Australasian Society for Human Biology (online)  
2021 Workshop instructor, *Applying for a DECRA*. Australasian Society for Human Biology (online)  
2021 Workshop instructor, *Introduction to bone and tooth histology*. Thai Bioarchaeology Project (online)  
2020–2021 External student mentor, University of Ibadan, Nigeria  
2020 Workshop instructor, *Human bone histology workshop for biological anthropologists* (online)  
2019 Workshop instructor, *Bone histology in bioarchaeology* at Adam Mickiewicz University, Poland  
2019–2021 Treasurer, Australasian Society for Human Biology, Australia  
2018–2019 Financial Delegate, Treasury, Australasian Society for Human Biology, Australia  
2018 Workshop co-instructor, *Social media for academics*, Australasian Society for Human Biology, Townsville  
2012 Workshop co-instructor, *Studying human variation*. Royal Anthropological Institute, London, UK  
2011 Workshop co-instructor, *Bones and Burials*, Kent Archaeological Field School, UK

## Outreach, Science Communication, and Media Engagement

2022 [New study sheds light on the ancient pastoralists of Iran](#) Archaeonews  
2022 [Measuring cell connectivity in ancient bones](#) Open Quaternary  
2021 [How Australian children's teeth helped solve an ancient mystery](#) Brisbane Times  
2021 [Teeth of Neanderthal infants developed sooner than modern humans](#) University of Kent press release  
2021 [Research discovers malaria devastating humans far earlier than expected](#) University of Otago press release  
2021 [How new archaeological research investigates Dark Emu's idea of Aboriginal 'agriculture' and villages](#)  
2021 [How does evolution shape us as a species?](#) International Darwin Day 2021 public webinar  
2021 Bone lab: Introduction to human osteology with ACT Scouts Summer Camp 2021  
2020 [Canterbury skeletons tell tales like Chaucer about class](#) – ANU Reporter article  
2020 CSI Canberra - Introduction to Forensic Anthropology, St Mary MacKillop College, Australia  
2019 [Ancient fingerprints & forensic science challenge ideas about 'women's work' in Puebloan society](#) ABC news  
2019 [How adapting to research setbacks can pave the way to greater outcomes](#) Nature Career Column  
2019 [Bone microstructure and the size of your femur](#) Atlas of Science  
2018 [Forensic Anthropology in the Lab](#) outreach session for St Mary MacKillop College, ANU  
2018 Forensic Anthropology in Australia school outreach at St Mary MacKillop College, Australia  
2018 [Researchers Across CASS Awarded 2019 ARC Grants](#) Australian National University press release  
2018 [Science reveals the menu of Otzi the Iceman's last meal](#) CNN news  
2018 [Major Equipment Grant win for ANU Biological Anthropology](#) Australian National University press release  
2018 [Aging the Elderly](#) ABC news  
2018 National Youth Science Forum public outreach, ANU  
2018 Science in ACTION outreach as part of National Science Week, Canberra, Australia  
2018 [Archaeologist debunking myth that most people died young prior to modern medicine](#) ABC news  
2018 [Palaeontology and Biological Anthropology](#), Yves Barau Primary School, St. Denis, Reunion Island  
2017 Guest Speaker at Burgmann College Science event, ANU, Australia  
2017 School outreach for Lake Ginninderra College, ANU  
2017 National Youth Science Forum public outreach, ANU  
2017 Franklin Women interview about my career: [Career Profile](#)  
2016 Australasian Society for Human Biology interview about my career: [Research Q&A](#)  
2016 [3-D technology used to safely reveal the diet of 'Chaucer's children'](#) University of Kent press release  
2016 Science in ACTION public outreach as part of National Science Week, Canberra, Australia  
2015 Outreach advocate for Forensics, Crime, and Security Science Academy, London, UK  
2015 Kent prospectus career profile feature [A successful future](#)  
2014 Kent news piece about my science images [Bone micrographs acquired by Wellcome Images](#)  
2014 Expert comment on Kent public lecture series: [Questions in Human Evolution](#)  
2014 Anthropology Day public outreach at British Museum, London, UK  
2013 [Kent student wins major award for paper on benefits of evolutionary medicine](#) University of Kent press release  
2013 [Students & Staff Nominated for Awards](#) University of Kent press release  
2013 Kent prospectus student profile feature: [Biological Anthropology at Canterbury](#)  
2013 Introduction to Biological Anthropology, Chartham Primary School, Chartham, UK  
2012 [PhD student wins Pollitzer award](#) University of Kent press release  
2012 Introduction to Bioarchaeology, Quex Park, Powell-Cotton Museum, Birchington, UK  
2011 Kent prospectus student profile feature: [Biological Anthropology at Canterbury](#)  
2011 Research featured in [Evolutionary Anthropology News](#) following AAPA symposium  
2011 Bones and Burials: workshops for archaeologists, Kent Archaeological Field School, UK

## SELECTED CERTIFICATIONS

2020 Mental health first aid (MFHA Australia)  
2018 Quarantine AA for Accredited Persons, Department of Agriculture, Australian Government  
2018 Biosecurity Awareness, Department of Agriculture & Water Resources, Australian Government  
2016–2024 Working with vulnerable people General Registration (ACT, Australia) #0000102180  
2016, 2019 First aid, and first aid in remote situations (HLTAID005, PARASOL #3123063-10208-2588114)

## APPENDIX

### Published abstracts (23)

- Cooke KM, Buckley HR, Kinaston RL, Kiko L, **Miszkievicz JJ**. Paleohistopathology of treponemal disease at Taumako, Solomon Islands (700-300ybp) (2022) *American Journal of Physical Anthropology* 177: 36.
- Miszkievicz JJ**, Fetner R. (2022) Human femur microstructure changes with chronology at Bakr Awa, Iraqi Kurdistan. *American Journal of Physical Anthropology* 177: 126.
- Mahoney P, McFarlane G, Smith BH, **Miszkievicz JJ**, Cerrito P, Liversidge H, Mancini L, Dreossi D, Veneziano A, Bernardini F, Cristiani E, Behie A, Coppa A, Bondioli L, Frayer DW, Radovčić D, Nava A. (2022) Neanderthal infant growth reconstructed from virtual histology of deciduous teeth. *American Journal of Physical Anthropology* 177: 113.
- Miszkievicz JJ**, Hardiman R, Vassallo AJ, Bayliss B, Mahoney P. (2021) Preliminary comparisons of cross-sectional geometry and histology between 20th century and late Medieval human midshaft femora. *American Journal of Physical Anthropology* 174 (S71), 72–73.
- Miszkievicz JJ**, Buckley HR, Dias Guimaraes NR, Walker MM, Kiko L, Kinaston RL. (2020) Human bone health at Taumako 700–300 BP Southeast Solomon Islands. *American Journal of Physical Anthropology* 171(S69), 189.
- Naseri R, **Miszkievicz JJ**, Stewart T, Sołtysiak A. (2019) Preliminary insights into femoral bone remodelling at Bronze Age multiple burials from Deh Dumen, Iran. *American Journal of Physical Anthropology* 168 (S68), 173.
- Miszkievicz JJ**, Mahoney P, Louys J, O'Connor S, Morgan C, Wyatt B, Bellwood P. (2019) Skeletal microstructure growth dynamics in ancient humans and fossil rats from Indonesian islands. *American Journal of Physical Anthropology* 168 (S68), 167.
- Pitfield R, **Miszkievicz JJ**, Mahoney P. (2019) Microscopic markers of an infradian biorhythm in human juvenile ribs. *American Journal of Physical Anthropology* 168 (S68), 151.
- Miszkievicz JJ**, Valentin F, Clark G. (2019) Increased human femoral cortical porosity indicates possible occurrence of osteoporosis in prehistoric Tonga. *Osteoporosis International*, Feb 2019, 32.
- Miszkievicz JJ**, Rider C, Kealy S, Oxenham M. (2018) Hip joint ankylosis and femoral bone adaptation: A histology case study from the Metal Period Philippines. *American Journal of Physical Anthropology* 165, 180.
- Mahoney P, **Miszkievicz JJ**, Chapple S, Le Luyer M, Schlecht SH, Stewart TJ, Griffiths RA, Deter CA, Guatelli-Steinberg D. (2018) The biorhythm of human skeletal growth. *American Journal of Physical Anthropology* 165: 164–165.
- Butterfield N, **Miszkievicz J**, Logan J, Leitch V, Yoshimura T, Bassett D, Williams G. (2017) Photoperiod-induced central actions of thyroid hormone are essential for medullary bone formation. *Endocrine Reviews* 50, 57.
- Miszkievicz JJ**. (2017) Reconstructing social status from Medieval skeletons. *Osteoporosis International* 28(1), S99.
- Mahoney JJ, **Miszkievicz JJ**, Pitfield R, Deter C, Guatelli-Steinberg D. (2017) Biorhythm tracks enamel thickness in humans and great apes. *American Journal of Physical Anthropology* 162 (S64), 273.
- Fuente García P, **Miszkievicz JJ**, Deter C, Mahoney P. (2017) Osteon circularity variation with femur anatomical region in archaeological humans. *American Journal of Physical Anthropology* 162(S64), 288–289.
- Miszkievicz JJ**, Bennett C, Johns SE, Mahoney P. (2016) Femoral bone remodeling comparisons between males and females from medieval England. *American Journal of Physical Anthropology* 159, 232.
- Mahoney P, **Miszkievicz JJ**, Pitfield R, Schlecht SH, Deter CA, Guatelli-Steinberg D. (2016) Biorhythms, deciduous enamel thickness, and primary bone growth in modern human children: a test of the Havers-Halberg Oscillation hypothesis. *American Journal of Physical Anthropology* 159, 216.
- Mahoney P, Schmidt CW, Deter CA, Remy A, Slavin P, **Miszkievicz JJ**, Nystrom, P. (2015) Childhood diet and health in medieval Canterbury, UK. *American Journal of Physical Anthropology* 156, 212.
- Miszkievicz JJ**, Kivell TL, Schlecht SH, Mahoney P. (2015) Investigating the extent to which enteses reflect remodeling at human femoral midshaft. *American Journal of Physical Anthropology* 156, 228.
- Miszkievicz JJ**, Mahoney P. (2014) Histological variation in modern human robust and gracile femur. *American Journal of Physical Anthropology* 153, 187.
- Miszkievicz JJ**, Mahoney P. (2013) Histology of a Harris line. *American Journal of Physical Anthropology* 150, 200.
- Miszkievicz JJ**, Mahoney P. (2012) Bone microstructure and behaviour in "robust" and "gracile" adult males from medieval Kent, UK. *American Journal of Physical Anthropology* 147, 215-216.
- Miszkievicz J**, Mahoney P. (2011) Linear enamel hypoplasia (LEH) and age at death (AAD) at medieval Canterbury, UK. *American Journal of Physical Anthropology* 144: 218.

### Non-refereed publications and reports (8)

**Miszkievicz J**. (2021) ANU bone histology online workshops: sharing knowledge during global COVID-19 crisis. *Australasian Forensic Anthropology and Archaeology Newsletter* 4: 4.

- Miszkiewicz J. (2020)** Forensic anthropology presentations at the 2019 Australasian Society for Human Biology (ASHB) Conference, ANU, Canberra. *Australasian Forensic Anthropology and Archaeology Newsletter* 3: 4.
- Miszkiewicz J. (2019)** How adapting to research setbacks can pave the way to greater outcomes. *Nature* (online)
- Miszkiewicz J, Mahoney P. (2019)** Bone microstructure and the size of your femur. *Atlas of Science* (online)
- Miszkiewicz J. (2014)** Biological anthropology research review 2013. In Appleby, J. (ed) *British Association for Biological Anthropology and Osteoarchaeology Annual Review* 2013 15, 43–44.
- Cichy PE, Hart PC, Deter C, **Miszkiewicz J, Mahoney P. (2013)** Post-excavation assessment report for archaeological investigation in advance of and during the excavations between Kemsing Water Treatment Works and Oak Bank Reservoir, Seal Chart, Kent. *Kent Archaeological Projects* 60–77.
- Miszkiewicz J. (2013)** Biological anthropology research review 2012. In Appleby, J. (ed) *British Association for Biological Anthropology and Osteoarchaeology Annual Review* 2012 14, 36–39.
- Miszkiewicz J. (2012)** Biological anthropology research review 2011. In Appleby, J. (ed) *British Association for Biological Anthropology and Osteoarchaeology* 2011 13, 40–43.

#### Published Images (8)

- Cooke K, Mahoney P, **Miszkiewicz JJ. (2022)**. Embedded osteon. Cover of *Anatomical Record* (vol. 305).
- Campbell B, **Miszkiewicz JJ. (2021)**. Tooth histology cross-section. Cover of *Proceedings of the Royal Society of Queensland* (vol. 129).
- Campbell B, Louys J, **Miszkiewicz JJ. (2020)**. Crocodile tooth histology. *Australian Microscopy & Microanalysis Newsletter* (Issue 147, Sept 2020).
- Schotsmans E, **Miszkiewicz JJ. (2019)** Ancient human bone histology in a Neolithic sample from Turkey. Cover of the *Australian Microscopy & Microanalysis Newsletter* (Issue 143, Sept 2019).
- Miszkiewicz JJ, Chakraborty JB, Logan JG, Bassett JHD, Williams GR. (2015)** Thigh bone from a male Japanese quail, micro-CT. Wellcome Images (B0010287) London, UK.
- Miszkiewicz JJ, Chakraborty JB, Logan JG, Bassett JHD, Williams GR. (2015)** Thigh bone from a female Japanese quail, microCT. Wellcome Images (B0010284, B0010285, B0010286), London, UK.
- Miszkiewicz JJ, Chakraborty JB, Logan JG, Bassett JHD, Williams GR. (2015)** Thigh bones from Japanese quail, micro-CT. Wellcome Images (B0010283), London UK.
- Miszkiewicz JJ, Xue W-F. (2014)** Human femoral bone, Atomic Force Microscopy. Wellcome Images (B0009665, B0009666), London, UK.

#### Conferences (91)

31/91 first-authored presentations since 2011 at various domestic and international conferences/ meetings:

**Australia** (International Association of Forensic Sciences, International Council for Archaeozoology, Australian Mammal Society, Australian Archaeological Association, Asia Pacific Conference on Human Evolution, International Osteoporosis Foundation Regional Conference, 20<sup>th</sup> Anniversary Wombat Conference, Joint Meeting of the Australian & New Zealand Bone & Mineral Society, Annual Scientific Meetings of the Endocrine Society of Australia, the Society for Reproductive Biology and the Australian and New Zealand Bone and Mineral Society, International Symposium on Archaeometry)

**Austria** (Climate Change: The Karst Record IX Conference)

**Germany** (International Symposium on Palaeohistology)

**Hungary** (European Association of Archaeologists)

**India** (International Conference on Mammoths and their Relatives)

**Italy** (European Association of Vertebrate Palaeontologists; World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases)

**Philippines** (Southeast Asian Gateway Evolution Meeting)

**Poland** (Poles in the Near East Conference)

**South Africa** (International Symposium on Palaeohistology)

**Thailand** (International Paleontological Congress, Congress of the Indo-Pacific Prehistory Association)

**UK** (The Society for the Study of Childhood in the Past; Bioarchaeology Early Career Conference; Society for Endocrinology, British Association for Biological Anthropology and Osteoarchaeology; Bone Research Society Meeting; Day of the Dead: Recent Research in Osteoarchaeology)

**US** (International Symposium on Palaeohistology, American Association of Biological Anthropologists).

Please visit my website for presentation and conference details: [here](#)