

REBECCA W. COOK, PH.D.

Curriculum Vitae

Center for Anatomical Sciences
University of North Texas Health Science Center
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Fort Worth, Texas

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EDUCATION

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| 2018 – 2024 | Ph.D. Department of Evolutionary Anthropology Duke University, Durham, NC |
| 2011 – 2015 | B.A. Anthropology & Sociology Centre College, Danville, KY |

ACADEMIC APPOINTMENTS

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| 2024 – present | Assistant Professor, Center for Anatomical Sciences, University of North Texas Health Science Center |
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RESEARCH INTERESTS

- Finite element analysis
 - Anatomical variation
 - Osteology
 - Hominin paleontology
 - Biomechanics
 - Motion capture/ gait analysis
 - Biomechanical effects of orthopaedic oncology surgical interventions
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TEACHING EXPERIENCE

Laboratory Instructor

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| 2018 – 2022 | Introduction to Evolutionary Anthropology, Duke University |
| 2020 – 2022 | Human Gross Anatomy, Duke University School of Medicine |
| 2020 – 2022 | The Human Body, Duke University |
| 2019 | Primate Anatomy |

Teaching Assistant

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| 2023 | Bodies of Evidence |
| 2020 | Physiology and Anatomy |

Students Mentored

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| 2023 – 2024 | Rachel Poutre (Duke University), Undergraduate Honors Thesis |
| 2022 – 2024 | Louise Adillon (Duke University) |
| 2022 – 2023 | Jessica Voss (Duke University) |
| 2022 – 2023 | Mason Dermott (Campbell University), M.A. Student |
| 2022 – 2023 | Ron Carr (Duke University), Undergraduate Honors Thesis |
| 2022 – 2023 | Maddie Jenner (Duke University) |
| 2020 – 2021 | Jay Chandar (Duke University), Undergraduate Honors Thesis |
| 2019 – 2021 | Lizzy Nist (Duke University), Undergraduate Honors Thesis |
| 2019 – 2020 | Kristen Murphy (Duke University) |
| 2018 – 2019 | Eva Broadway (University of North Carolina – Chapel Hill) |

PUBLICATIONS

Cook RW, Vazzana A, Sorrentino R, Benazzi S, Smith AL, Strait D, Ledogar JA. (2021). The cranial biomechanics and feeding performance of *Homo floresiensis*. *Interface Focus* 11:20200083

Walker CS, Cofran ZD, Grabowski M, Marchi D, **Cook RW**, Churchill SE, Tommy KA, Throckmorton Z, Ross AH, Hawks J, Yapuncich GS, Van Arsdale AP, Rentzeperis FI, Berger LR, DeSilva JM. (2019). Morphology and evolution of the *Homo naledi* femora from Lesedi. *American Journal of Biological (formerly Physical) Anthropology* 170(1), 5-23.

Ledogar JA, Benazzi S, Smith AL, Dechow PC, Wang Q, **Cook RW**, Neaux D, Ross CF, Grosse IR, Wright BW, Weber GW, Byron C, Wroe S, Strait DS. Feeding biomechanics and the origin of *Homo*. (Manuscript submitted).

MANUSCRIPTS IN PREPARATION

Cook RW, Truitt K, Wilson M, Little-Letsinger S, Schmitt D. A comparison of methods for calculation of kinematic and kinetic data in human gait. (To be submitted as a technical note to *Journal of Applied Biomechanics*).

Cook RW, Churchill SE. A 3D geometric morphometrics reconstruction of the KNM-ER 3228 os coxae.

Cook RW, Yapuncich GS, Thompson IJ, Walker CS, Churchill SE. A comparison of lateral iliac flare measurement methods and their correlation with lesser gluteal moment arms.

Little-Letsinger SE, **Cook RW**, Wilson M, Truitt K, Schmitt D. Musculoskeletal loading in stiff and compliant gaits: Implications for the origin of bipedalism. (To be submitted to the *Journal of Experimental Biology*).

Kenyon-Flatt B, **Cook RW**, Rossillo AM, Renier van der Merwe, Throckmorton Z, Berger LR, Walker

CS. Fossilized remains of two immature *Australopithecus sediba* specimens from the Malapa site, South Africa.

ABSTRACTS AND PRESENTATIONS

- Cook RW**, Adegboyega MT, Churchill SE. A 3D geometric morphometrics reconstruction of the KNM-ER 3228 os coxae. *European Society for the Study of Human Evolution Meeting* (2023).
- Cook RW**, Chandar J, Yapuncich GS, Thompson IJ, Walker CS, Churchill SE. Lateral iliac flare does not correlate with gluteal abductor moment arms in humans. *American Association of Biological Anthropologists Annual Meeting* (2023).
- Ledogar JA, Benazzi S, Smith A, Dechow P, Wang Q, **Cook RW**, Neaux D, Ross C, Grosse I, Wright B, Weber G, Byron C, Wroe S, Strait D. *Homo* origins mark an adaptive shift characterized by constrained bite force production. *American Association for Anatomy, Anatomy Connected* (2023).
- Cook RW**, Ledogar JA, Vazzana A, Sorrentino R, Benazzi S, Smith AL, Strait D. (2021) Anthroengineering the "hobbit": Craniofacial feeding biomechanics in *Homo floresiensis*. *American Journal of Biological (formerly Physical) Anthropologists* 174(S71).
- Thompson IJ, **Cook BW**, Cofran ZD, Reyes M, Walker CS. (2020). Estimation of hominine femoral head size from fragmentary remains via sphere-fitting methodology. *American Journal of Biological (formerly Physical) Anthropologists* 171(S69).
- Rossillo AN, **Cook RW**, Fulwood EL. (2019). Walking with hominins and chewing with lemurs in K-12 classrooms: Incorporating 3D digital repositories into state-specific lesson plans. *American Journal of Biological (formerly Physical) Anthropology* 162(S68).
- Cook RW**, Yapuncich GS, Thompson IJ, Walker CS, Churchill SE. (2018). A comparison of lateral iliac flare measurement methods and their correlation with lesser gluteal moment arms. *American Journal of Biological (formerly Physical) Anthropology* 165(S66).
- Foster AD, **Cook RW**, Withorn B, Vallely J. (2018). Do trabecular properties signal a bipedal loading pattern in a rat model for the quadrupedal to bipedal transition? *American Journal of Biological (formerly Physical) Anthropology* 165(S66)
- Cook RW** and Walker CS. (2017). The application of 3D scanning & printing: Paleontology research and anatomy education. North Carolina State University College of Veterinary Medicine Dog Olympics.
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AWARDS & FELLOWSHIPS

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|------------------|--|
| 2023 | Research Grant, The Leakey Foundation |
| 2023 | Graduate Student Award, Triangle Center for Evolutionary Medicine |
| 2023 | Aleane Webb Dissertation Research Fellowship, Duke Graduate School |
| 2023 | Conference Travel Award, Duke Graduate School |
| 2019, 2023 | International Dissertation Research Travel Award, Duke Graduate School |
| 2019, 2020, 2023 | Summer Research Fellowship, Duke Graduate School |
| 2018 – 2023 | Undergraduate Mentorship Award, Duke Trinity College of Arts and Sciences |
| 2021 – 2022 | Provost Internship Award, Duke Graduate School |
| 2020 | Departmental Conference Travel Award, Duke Department of Evolutionary Anthropology |
| 2020 | Women's Weekend Scholarship, Duke Alumni Association |
| 2020 | Domestic Dissertation Research Travel Award, Duke Graduate School |
| 2020 | NSF Graduate Research Fellowships Program, Honorable Mention |
| 2014 | Summer Internship Award, Centre College |
| 2011 – 2015 | Founders Scholarship, Centre College |

PROFESSIONAL/ FIELD EXPERIENCE AND DEVELOPMENT

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| 2017 – present | Research Associate, Hominoid Evolution Research Group, North Carolina State University College of Veterinary Medicine. PI: Christopher Walker. Raleigh, NC |
| 2018 – present | Visiting Researcher, University of the Witwatersrand. Johannesburg, South Africa |
| 2023 | Visiting Researcher, National Museums of Kenya. Nairobi, Kenya |
| 2022 – 2023 | Assistant, NSF Predictive Intelligence for Pandemic Prevention Phase I Development Grant; PI: Charles Nunn. Durham, NC |
| 2022 – 2023 | Club EvMed Manager, Triangle Center for Evolutionary Medicine. Durham, NC |
| 2022 | Evolutionary Medicine Summer Programs Coordination Intern, Triangle Center for Evolutionary Medicine. Durham, NC |
| 2021 | Lesson Plan Development Intern, Triangle Center for Evolutionary Medicine. Durham, NC |
| 2019 | Finite Element Analysis Applied to Life Sciences, Transmitting Science course. Sabadell, Spain |
| 2019 | Visiting Researcher, Musée de l'Homme. Paris, France |
| 2018 | Visiting Researcher, Harvard Museum of Comparative Zoology. Cambridge, MA |
| 2017 – 2018 | Research Associate, Jerry M. Wallace School of Osteopathic Medicine, Campbell University. Buies Creek, NC |
| 2017 | Visiting Researcher, WM Bass Donated Skeletal Collection, University of Tennessee. Knoxville, TN |
| 2014 | Archaeology Intern, Underwater Archaeology Branch, Naval History and Heritage Command. Washington, DC |

OUTREACH AND INVITED TALKS

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| 2022 | Organizer and Panelist, <i>Pathways to the NSF GRFP</i> . Durham, NC (virtual) |
| 2020 | Invited Speaker, The Museum of Life and Science. <i>The Story of Us: Who's "Human?"</i> Durham, NC (virtual) |
| 2020 | Organizer and Panelist, <i>Applying to Graduate School: How to be a Competitive PhD Applicant (for underrepresented STEM applicants)</i> . Durham, NC (virtual) |
| 2019 | Invited Darwin Day Scientist. North Carolina Museum of Natural Sciences. Raleigh, NC |
| 2018 | Invited Lecturer, North Carolina State University Department of Anthropology |
| 2017 | Technology Demonstrator, North Carolina State University College of Veterinary Medicine Dog Olympics. Raleigh, NC |
| 2017 | Technology Demonstrator, North Carolina State University College of Veterinary Medicine Open House. Raleigh, NC |

PROFESSIONAL AFFILIATIONS

- American Association of Biological Anthropologists
 - European Society for the Study of Human Evolution
 - European Virtual Anthropology Network Society
 - Sigma Xi
 - Women in Science & Engineering (WiSE) Duke University
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