

AMANDINE ERIKSEN

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EDUCATION

- 2020 **Ph.D.**, Biological Anthropology, University at Buffalo-SUNY, NY
Dissertation: '*An integrative assessment of the pattern and causes of bilateral asymmetry across the human skeleton*'
Dissertation Advisor: Noreen von Cramon-Taubadel, Ph.D.
- 2013 **M.S.**, Human Biology, University of Indianapolis, IN
Thesis: '*Forensic Primatology: Taphonomy and trauma in Rwandan Virunga mountain gorillas (Gorilla beringei beringei)*'
Thesis Advisor: Stephen Nawrocki, Ph.D.
- 2005 **B.S.**, Anthropology/Archaeology, Mercyhurst College, PA

ACADEMIC APPOINTMENTS

- 2021–
present **Assistant Professor**, Department of Biology, University of Indianapolis, Indianapolis IN
- 2020–21 **Postdoctoral Research Associate**, Department of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, Phoenix, AZ
- 2019–20 **Research Associate**, Department of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, Phoenix, AZ
- 2017–19 **Adjunct Faculty**, Natural Sciences Department, Villa Maria College, Buffalo, NY
- 2011–12 **Visiting Instructor**, Applied Forensic Sciences Department, Mercyhurst University, Erie, PA
- 2012 **Anthropology Field School Instructor**, Applied Forensic Sciences Department, Mercyhurst University, Erie, PA
- 2009 **Adjunct Faculty**, Department of Biology Department, University of Indianapolis, Indianapolis IN

AWARDS & GRANTS

- 2019 Graduate Student Excellence in Teaching Award, University at Buffalo-SUNY
- 2018 Wenner-Gren Dissertation Fieldwork Grant (\$6,651)
- 2018 Morris and Lucille Opler Dissertation Writing Award (\$6,000)
- 2018 College of Arts and Sciences Dissertation Fellowship (\$6,000)
- 2017–18 Mark Diamond Research Fund Award (\$3,000)
- 2017 Morris and Lucille Opler Dissertation Research Award (\$6,000)
- 2016 American Association of Physical Anthropologists Pollitzer Student Travel Grant (\$500)
- 2015–19 Full Tuition Assistantship, University at Buffalo-SUNY (\$55,604)

PUBLICATIONS

- 2022 McGrath K, **Eriksen AB**, García-Martínez D, Galbany J, Gómez-Robles A, Massey JS, Fatica LM, Glowacka H, Arbenz-Smith K, Muvunyi R, Stoinski TS, Cranfield MR, Gilardi K, Shalukoma C, de Merode E, Gilissen E, Tocheri MW, McFarlin SC, Heuzé Y (2022). Facial asymmetry tracks genetic diversity among Gorilla subspecies. *Proceedings of the Royal Society B*, 289(1969):20212564.
- 2019 Sirianni JE, **Eriksen AB**, Kenyon BA (Eds.). *Comparative Primate Anatomy Lab Manual and Atlas* (9th ed.) New York: Bates Jackson Publishing.
- 2016 Tocheri MW, Dommain R, McFarlin SC, Burnett SE, Case DT, Orr CM, Roach NT, Villmoare B, **Eriksen AB**, Kalthoff D, Senck S, Assefa Z, Groves CP, Jungers WL. The evolutionary origin and population history of the grauer gorilla. *Yearbook of Physical Anthropology*, 159(S61):4-18.
- 2012 McFarlin SC, Barks SK, Tocheri MW, Massey JS, **Eriksen AB**, Fawcett KA, Stoinski TS, Hof PR, Bromage TG, Mudakikwa A, Cranfield MR, Sherwood CC. Early brain growth cessation in wild Virunga mountain gorillas (*Gorilla beringei beringei*). *American Journal of Primatology*, 75(5):450-463.

MANUSCRIPTS IN PREPARATION

- 2021 **Eriksen AB**, von Cramon-Taubadel N. A comparison of fluctuating asymmetry across the human skeleton. Manuscript in preparation.

TEACHING EXPERIENCE

Medical & Allied Health students

- 2021 Lab instructor for Master of Medical Studies students, **Pathway Scholars Program**, University of Arizona College of Medicine-Phoenix, AZ
- 2019–20 Lecturer and lab instructor for first-year Medical students (in person & virtual), **Clinical Anatomy** (MEDP804), Department of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, AZ
- 2019–20 Lecturer and lab instructor for first-year Physician Assistant and Physical Therapy students (in person & virtual), **Clinical Anatomy** (PHA 500/PT 535), Department of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, AZ

Graduate students

- 2021 Lecturer and lab instructor for first-year graduate students in the Human Biology MS and Anatomical Sciences MS Programs, **Human Gross Anatomy** (BIOL 510), Department of Biology, University of Indianapolis, Indianapolis IN
- 2019–20 Lecturer and lab instructor for Anthropology graduate students (in person & virtual), **Clinical Anatomy** (ASM 506), Department of Basic Medical Sciences, University of Arizona College of Medicine-Phoenix, AZ
- 2016–19 Teaching assistant and guest lecturer for Anthropology graduate students, **Comparative Primate Anatomy** (APY 573), Department of Anthropology, University at Buffalo-SUNY, Buffalo, NY
- 2011–12 Lecturer and lab instructor for first-year Anthropology graduate students, **Human Osteology I** (ANTH 520/521), **Skeletal Biology II** (ANTH 530/531), **Paleopathology** (ANTH 560-03), **Zooarchaeology** (ANTH 560/561), Applied Forensic Sciences Department, Mercyhurst University, Erie, PA

Undergraduate students

- 2021 Lecturer and lab instructor for advanced undergraduate students, **Human Functional Anatomy** (BIOL 305), Department of Biology, University of Indianapolis, Indianapolis IN
- 2017–19 Lecturer and lab instructor for first-year Occupational and Physical Therapy Assistant students, **Human Anatomy & Physiology I/II** (BIO 103/104), Natural Sciences Department, Villa Maria College, Buffalo, NY
- 2016–19 Lab instructor for advanced undergraduate students, **Comparative Primate Anatomy Dissection Laboratory** (APY 346), Department of Anthropology, University at Buffalo-SUNY, Buffalo, NY
- 2016–19 Teaching assistant and guest lecturer for advanced undergraduate students, **Comparative Primate Anatomy** (APY 345), Department of Anthropology, University at Buffalo-SUNY, Buffalo, NY
- 2015–18 Teaching assistant and guest lecturer for advanced undergraduate students, **Forensic Anthropology/Osteology** (APY 348), Department of Anthropology, University at Buffalo-SUNY, Buffalo, NY
- 2013–14 Academic coach for community college students, Parkland College, TRiO Program, Champaign, IL
- 2011–12 Lecturer and lab instructor for third- and fourth-year undergraduate students, **Environmental Evidence** (ANTH 300/301), **Human Osteology I** (ANTH 326/327), **Skeletal Biology II** (ANTH 333/334), **Zooarchaeology** (ANTH 250/251), **Crime Scene Archaeology** (ANTH 390), Applied Forensic Sciences Department, Mercyhurst University, Erie, PA
- 2009 Lecturer and lab instructor for advanced undergraduate Art students, **Biology for Artists** (BIOL 131), Biology Department, University of Indianapolis, Indianapolis IN
- 2007–09 Teaching assistant for early and advanced undergraduate students, **Human Anatomy** (BIO 103), **Clinical Microbiology** (BIOL 209), **Forensic & Historic DNA Analysis** (BIOL 435), **Human Osteology** (BIOL 450), Department of Biology, University of Indianapolis, Indianapolis IN

RESEARCH, FIELDWORK, & LABORATORY EXPERIENCE

- 2016–20 Dissertation research completed on modern human skeletal asymmetry (US skeletal collections)
- 2016 Pilot study completed on facial asymmetry in mountain gorilla crania (Rwanda gorilla collection)
- 2015 **Graduate Assistant**, Human Evolutionary Morphology Laboratory, University at Buffalo-SUNY
- 2015 **Field Technician**, University at Buffalo Archaeological Survey, Buffalo, NY
- 2013–16 **Field Director & Researcher**, Mountain Gorilla Skeletal Project, Rwanda, Africa
- 2013–14 **Research Assistant**, University of Illinois, Anthropology Department, Champaign, IL
- 2009–10 **Assistant Field Director & Researcher**, Amboseli Baboon Skeletal Project, Kenya, Africa
- 2008–11 **Assistant Field Director & Researcher**, Mountain Gorilla Skeletal Project, Rwanda, Africa
- 2007–12 **Field Technician**, AMEC Earth & Environmental Inc., Indianapolis, IN
- 2006–11 **Laboratory Assistant**, Archeology and Forensics Laboratory, University of Indianapolis, IN
- 2005–06 **Field Technician**, Cultural Heritage Research Services, Inc., Brownsville, PA
- 2002–05 **Laboratory Assistant**, Applied Forensic Sciences Department, Mercyhurst College, Erie, PA

STUDENT MENTORING

Undergraduate Senior Practicum Research Supervisor, University at Buffalo-SUNY

- Christopher Cerbini, *An assessment of vertebral variation in species of Macaca*, 2018
- Conner Awayda, *Pelvis fluctuating asymmetry in male and female crab-eating macaques (Macaca fascicularis)*, 2017
- Timothy Semon, *Assessing the need for orthodontic treatment in the Erie County Poorhouse population*, 2016

Summer Internship Project Research Supervisor, Dian Fossey Gorilla Fund International, Rwanda

- Gilbert Ndatimana, *Antemortem trauma of the hand and foot in the gorilla skeleton*, 2017-2018
- Dieudonne Ntoragurwa, *Skeletal hand pathology in mountain gorillas from Volcanoes National Park, Rwanda*, 2016

PRESENTATIONS

Invited Talks

- 2018 “Glomerular Filtration” presented to undergraduate students at Westfield State University, MA
- 2017 One-day 3D scanning workshop for graduate students at Mercyhurst University, Erie, PA
- 2012 “Forensic Primatology” presented to undergraduate students at Edinboro University, PA
- 2010 “Recovery and Analysis of Rwanda's Mountain Gorillas: Non-Human Forensic Anthropology” presented to public at Medical History Museum, Indianapolis, IN

Guest Lectures

- 2017 “Effects of Farming on Human Skull and Tooth Morphology” presented to undergraduate and graduate students in Dental Anthropology (APY 545), University at Buffalo-SUNY, NY
- 2016 “Gorillas of Central Africa” presented to undergraduate students at Michigan State University, East Lansing, MI
- 2016 “Introduction to Bioarchaeology & Forensic Anthropology” presented to undergraduate students in Introduction to Physical Anthropology (APY 107), University at Buffalo-SUNY, NY
- 2015–17 “Introduction to Forensic Anthropology” presented to undergraduate students in Forensic Anthropological Osteology (APY 348), University at Buffalo-SUNY, NY
- 2009–11 “Gorilla Behavior and Ecology,” presented to undergraduate students in Monkeys, Apes, and Humans (BIO 130), University of Indianapolis, IN
- 2010 “Introduction to Forensic Science” to presented advanced undergraduate students at St. Joseph’s College, Rensselaer, IN

Platform Presentations

- 2021 Kenyon-Flatt B, **Eriksen, AB**, Simons EA, von Cramon-Taubadel N. The impediment of sex on taxonomy: A case study in macaque monkeys. *The FASEB Journal*, 35(S1).
- 2019 McGrath K, **Eriksen AB**, Gómez-Robles A, García-Martínez D, Massey JS, Mudakikwa A, Stoinski TS, Cranfield MR, Gilissen E, Tocheri MW, McFarlin SC, Heuzé Y. Facial fluctuating asymmetry tracks genetic diversity among gorilla subspecies. 9th Annual meeting of European Society for the Study of Human Evolution.
- 2016 **Eriksen AB**. The long-term impact of interaction between humans and wild Virunga mountain gorillas. 6th Annual Interdisciplinary University at Buffalo-SUNY Graduate Student Symposium
- 2016 **Eriksen AB**. Antemortem and perimortem skeletal in mountain gorillas: Evidence of conspecific aggression. 6th Annual meeting of Bioarchaeologists’ Northeast Regional Dialogue.
- 2016 McFarlin SC, Cranfield MR, Uwingeli P, Bromage TG, **Eriksen AB**, Hunt D, Nawrocki SP, Arbenz-Smith K, Umuliisa A, Stoinski TS, Mudakikwa A. The Mountain Gorilla Skeletal Project in

- Rwanda (*Gorilla beringei beringei*): Value of preserving naturally-accumulated skeletal remains from long-term field studies. International Primatological Society & American Society of Primatologists.
- 2013 **Eriksen AB**. Skeletal trauma due to conspecific aggression in gorillas. 33rd Annual meeting of Mountain, Desert, and Coastal Forensic Anthropologists.
- 2011 **Eriksen AB**, Nawrocki SP. Skeletal Evidence of Infanticide in Mountain Gorillas of Rwanda. 1st Annual meeting of Field, Lakes, and Grasslands Forensic Anthropologists.
- 2010 **Eriksen AB**. Curious gorge: A unique gorilla recovery in Rwanda. 30th Annual meeting of Mountain, Desert, and Coastal Forensic Anthropologists.
- 2009 **Eriksen AB**, Nawrocki SP, McFarlin SC, Bromage TG, Fawcett K, Cranfield MR, Mudakikwa A. Forensic primatology: The mountain gorilla recovery effort in Rwanda. 16th Annual meeting of Midwest Bioarchaeology and Forensic Anthropology Association.

Poster Presentations

- 2021 **Eriksen AB**, von Cramon-Taubadel N. A Comparison of Fluctuating Asymmetry Across the Human Skeleton. American Association of Physical Anthropologists, 174(S70): 29.
- 2020 **Eriksen AB**, von Cramon-Taubadel N. The effect of hand preference on human pelvic shape asymmetry. American Association of Physical Anthropologists, 171(S69): 81(canceled due to covid-19).
- 2020 **Eriksen AB**, von Cramon-Taubadel N. The effect of hand preference on skeletal asymmetry in human limbs. *The FASEB Journal*, 34(S1) (canceled due to covid-19).
- 2019 **Eriksen AB**. Patterns of skeletal asymmetry in the human pelvis. Arizona Postdoctoral Research Conference.
- 2019 **Eriksen AB**, Kenyon BA, Sirianni JE. A comparative study of leg musculature in humans and non-human primates and its evolutionary implications. *The FASEB Journal*, 33(S1): 612.8.
- 2019 Kenyon, BA, **Eriksen AB**, Sirianni JE. Comparisons of forelimb muscular anatomy in humans, macaques, and chimpanzees: An evolutionary perspective. *The FASEB Journal*, 33(S1): 612.6.
- 2019 **Eriksen AB**, von Cramon-Taubadel N. Patterns of skeletal asymmetry in the human pelvis. American Association of Physical Anthropologists. 168(S68): 70.
- 2018 **Eriksen AB**, Schroeder L, von Cramon-Taubadel N. Patterns of fluctuating asymmetry in the human axial skeleton. American Association of Physical Anthropologists, 165(S66): 79.
- 2017 **Eriksen AB**, McGrath K, Gómez-Robles A, Massey JS, Bromage TG, Mudakikaw A, Stoinski TS, Cranfield MR, Tocheri MW, McFarlin SC, von Cramon-Taubadel N. Facial fluctuating asymmetry in wild Virunga mountain gorillas (*Gorilla beringei beringei*). American Association of Physical Anthropologists, 162(S64): 174.
- 2014 **Eriksen AB**, Nawrocki SP, Bromage TG, Cranfield MR, Stoinski TS, Mudakikwa A, McFarlin SC. Skeletal evidence of infanticide in Virunga mountain gorillas (*Gorilla beringei beringei*) from Volcanoes National Park, Rwanda. American Association of Physical Anthropologists, 153(S58): 115.
- 2011 Murtough KL, McFarlin SC, **Eriksen AB**, Mudakikwa A, Tocheri MW, Richmond BG. Hand and foot proportions of the mountain gorilla, *Gorilla beringei beringei*. American Association of Physical Anthropologists, 147(S54): 221.
- 2010 **Eriksen AB**, Nawrocki SP, McFarlin SC, Bromage TG, Fawcett K, Cranfield MR, Mudakikwa A. Evidence of perimortem trauma in free-ranging mountain gorillas (*Gorilla beringei beringei*) from Volcanoes National Park, Rwanda. American Association of Physical Anthropologists, 141(S50): 101-102.
- 2009 McFarlin SC, Bromage TG, Lilly AA, Cranfield MR, Nawrocki SP, **Eriksen AB**, Hunt D, Kanimba Misago C, Mudakikwa A. Recovery and preservation of a mountain gorilla skeletal resource in Rwanda. American Association of Physical Anthropologists, 138(S48): 187-188.
- 2008 Stigler CM, **Eriksen AB**, Nawrocki SP. A multidisciplinary approach to analysis of historic cemetery populations. American Association of Physical Anthropologists, 135(S46): 201.

PROFESSIONAL SERVICE & COMMUNITY OUTREACH

- 2017–21 **Manuscript Reviewer** for *American Journal of Physical Anthropology*, *Journal of Medical Primatology*
2020 **Grant Proposal Reviewer**, National Science Foundation (NSF)
2017 **Evolution Workshop Leader**, “Evolution: Examining Fossil & DNA Evidence” (SEPUP kit), Interdisciplinary Science and Engineering Partnership (ISEP) Workshop for Buffalo middle school teachers
2016–19 **Associate Editor**, Artifacts Bones Discourse (ABD) Student Journal, University at Buffalo, NY
2016–18 **Treasurer**, Primatology Club, University at Buffalo, NY
2016–17 **Publicity Coordinator**, Bioarchaeologists’ Northeast Regional Dialogue Annual Meeting
2016–17 **Grant Reviewer**, Mark Diamond Research Fund Review Committee, University at Buffalo
2014–18 **Alternate Senator**, Anthropology Graduate Student Association, University at Buffalo, NY
2013–14 **Set-up Coordinator & French Translator**, Wesley Evening Food Pantry, Urbana, IL
2012–13 **Anthropology Expert Volunteer**, Museum of Science and Industry, Chicago, IL
2007–18 **Medical Illustrator**, Textbook and journal covers and published scientific diagrams

FOREIGN LANGUAGES

French (native): advanced (speaking, reading, and writing)

TECHNICAL SKILLS

- Microsoft Word, PowerPoint, Excel, iWork Pages, Keynote, and Numbers
- Adobe Creative Suite 5: Photoshop, Illustrator, and InDesign
- Online Course Management: Blackboard Learning System and D2L
- 3D scanning: HDI 120 Structured Light Scanner and NextEngine Laser Scanner
- Imaging software: NextEngine ScanStudio, FlexScan, Geomagic, Amira, Landmark Editor, and MeshLab
- Analytical software: R Studio, MorphoJ, and Morphologika
- Copystand and field photography with digital/film SLR cameras (Nikon and Canon)
- Archaeological training in cultural resource management (CRM) and cemetery relocation
- Human osteological assessment of biological profiles, trauma, and pathology
- Zooarchaeological analysis: differentiation of non-human skeletal elements
- Museum preparation: cleaning, care, and curation of skeletal specimens

PROFESSIONAL AFFILIATIONS

American Association of Anatomists (2018–present)
Sigma Xi, Scientific Research Honor Society (2017–present)
American Society of Primatologists (ASP) (2016–2017)
Institute for European and Mediterranean Archaeology (IEMA) (2015–2020)
American Association of Biological Anthropologists (AABA) (2008–present)
American Academy of Forensic Sciences (AAFS) (2007–present)