

CURRICULUM VITAE

Ariel Gruenthal-Rankin, Ph.D.

Email: arielgr@hawaii.edu

EDUCATION

Ph.D. Anthropology (Biological)

Binghamton University, Binghamton, NY (2021)

Dissertation: *Dietary Dimensions of Early-Life Stress in Medieval Prussia***M.Sc. Forensic Anthropology, with Merit**

University of Central Lancashire, Preston, UK (2009)

B.A. Anthropology (Biological), *summa cum laude*

Humboldt State University, Arcata, CA (2008)

RESEARCH INTERESTS

- Embodiment of structural violence and marginalization
- Adverse childhood experiences and the skeleton (Developmental Origins of Health and Disease)
- Skeletal pathology- congenital and metabolic
- Ethics in osteology
- Community-oriented forensic practice

PROFESSIONAL APPOINTMENTS

- 2023-present **Assistant Professor**, University of Hawai'i- West O'ahu, Department of Anthropology, Division of Social Sciences, Kapolei, HI.
- 2023-present **Forensic Anthropologist**, Honolulu County Department of the Medical Examiner, Honolulu, HI 96817
- 2023-present **Director/Osteologist**, Źelewo Bioarchaeology Field School, Źelewo, Poland.
- 2019-present **Research Associate**, Humboldt State University, Department of Anthropology, Arcata, CA.
- 2021-2023 **Research Associate/Forensic Anthropologist**, Binghamton University, Department of Anthropology, Binghamton, NY.
- 2017-2022 **Adjunct Lecturer**, Binghamton University, Department of Anthropology, Binghamton, NY.
- 2012-2020 **Adjunct Lecturer**, Humboldt State University, Arcata, CA.
- 2017 & 2019 **Osteologist**, Carlisle Barracks Cemetery Project, Carlisle, PA.
- 2015-2021 **Forensic Anthropologist (Trainee)**, Binghamton University, Department of Anthropology, Binghamton, NY.

- 2014-2018 **Director/Osteologist**, Bezlawki Bioarchaeology Field School, Bezlawki, Poland.
- 2016 **Lecturer**, State University of New York, Cortland, Department of Sociology and Anthropology, Cortland, NY.
- 2015-2016 **Teaching Assistant**, Binghamton University, Department of Anthropology, Binghamton, NY.
- 2010-2015 **Forensic Anthropologist**, Humboldt County Coroner's Office, Eureka, CA.
- 2010-2013 **Deputy Coroner**, Humboldt County Coroner's Office, Eureka, CA.
- 2007 & 2010 **Autopsy Technician**, Humboldt County Coroner's Office, Eureka, CA.

TEACHING EXPERIENCE

University of Hawai'i- West O'ahu

Undergraduate Courses

- ANTH 151: Emerging Humanity
- ANTH 215: Biological Anthropology
- ANTH 215L: Biological Anthropology Lab
- ANTH 384 (crosslist: BIOL 384): Human Skeletal Biology
- ANTH 384L (crosslist: BIOL 384L): Human Skeletal Biology Lab
- ANTH 415: Human Ecological Adaptation
- ANTH 458: Forensic Anthropology
- ANTH 475 (crosslist BIOL 475): Analysis of Animal Remains (Zooarchaeology)

Binghamton University (2015-2020 and 2022)

Undergraduate Courses (2017-2020 and 2022)

- ANTH 247: The Science of the Skeleton
- ANTH 336: Human Skeleton

Teaching Assistant Courses (2015-2016)

- ANTH 114: Language, Communication and Culture in the US
- ANTH 125: Buried Cities, Lost Civilizations (Introduction to Archaeology)

Cal Poly Humboldt (2012-2020)

Selected Undergraduate Courses

- ANTH 105: Archaeology and World Prehistory (Introduction to Archaeology)
- ANTH 303: Human Evolution and Biology (Introduction to Biological Anthropology)

- **ANTH 332: Skeletal Biology and Forensic Anthropology** (Lecture/Lab)
- **ANTH 338: Biological Anthropology Lab**
- **ANTH 339: Zooarchaeology** (Lecture/Lab)
- **ANTH 339: Current Perspectives in Bioarchaeology**
- **ANTH 339: Advanced Biological Anthropology Methods**
- **ANTH 339: International Bioarchaeology Field Preparation**
- **ANTH 485: Forensic Taphonomy**
- **ANTH 485: Museum Practices**

Graduate Courses

- **ANTH 680: Interdisciplinary Methods in Bioarchaeology**

State University of New York, Cortland (2016)

- **ANTH 300: Human Evolution and Survival** (Introduction to Biological Anthropology)

PUBLICATIONS

Refereed Articles

Gruenthal-Rankin, A., T. Somogyi, A. Roome, and E. DiGangi. 2023. Beyond the Report: Prospects and Challenges in Forensic Anthropological Investigations of Structural Vulnerability. *Forensic Science International: Synergy* 6 (100315).

Gruenthal-Rankin, A. and T. Somogyi. 2022. Critical Review Essay: The Archaeology of Human Bones and Bioarchaeology: An Introduction to the Archaeology and Anthropology of the Dead. *American Journal of Physical Anthropology* 177(2): 369-371.

Ramsier, M., **A. Gruenthal-Rankin**, K. Gaddis, and A. Koperkiewicz. 2021. Sample Size and Representational Bias in Small Sites: A Case Study of Stature from Medieval Prussia. *International Journal of Osteoarchaeology* 31(4): 523-533.

DiGangi, E. and **A. Gruenthal-Rankin**. 2019. Skeletal Stress Markers and Subsistence Strategy in Prehistoric Chilean Populations of the Semi-arid North. *Chungará* 51(4): 613-626.

Gruenthal, A., T Simmons and C Moffat. 2012. Differential Decomposition Patterns in Charred Versus Un-Charred Remains. *Journal of Forensic Sciences* 57(1): 12-18.

Accepted Manuscripts in Revision

Adams, D. **et al.** *Speaking Truth to Power: Toward a Forensic Anthropology of Advocacy and Activism.*
In revision for *Humans*.

Gaddis, K., **A. Gruenthal-Rankin**, M. Ramsier, and A. Koperkiewicz. *Stress, Frailty, and Resilience in Medieval Prussia*. Manuscript in revision for the *International Journal of Paleopathology*.

Submitted Manuscripts

A. Gruenthal-Rankin, Somogyi, T., and DiGangi, E. *Specimen/Person: Perspectives on the Disembodiment of Teaching Assemblages*. Submitted to *American Journal of Biological Anthropology*.

Manuscripts in Preparation

Gruenthal-Rankin A., M. Ramsier, and A. Koperkiewicz. *Diet and Developmental Origins of Health and Disease in Medieval Prussia*. In preparation for submission to the *American Journal of Biological Anthropology*.

PRESENTATIONS AND PUBLISHED ABSTRACTS

Conference Papers

Ślusarska, K., M. Adamczyk, J. Karmowski; **A. Gruenthal-Rankin**, K. Gaddis, and M. Ramsier. 2024. *Life and Death by the Lake in Pomerania: Introducing the Late Medieval Cemetery at Żelewo Site 1-3*. Society for American Archaeology 89th Annual Meeting, New Orleans, LA.

Gruenthal-Rankin, A., M. Ramsier, K. Gaddis, and A. Koperkiewicz. 2022. *Early-Life Dietary Stress and Frailty after Colonization and Conversion in Medieval Prussia*. American Association of Biological Anthropologists' 91st Annual Scientific Meeting, Denver, CO.

DiGangi, E., **A. Gruenthal-Rankin**, and T. Somogyi. 2022. "They're People Too": *Perspectives on the (Dis)embodiment of Teaching Assemblages*. American Association of Biological Anthropologists' 91st Annual Scientific Meeting, Denver, CO.

DiGangi, E., **A. Gruenthal-Rankin**, and T. Somogyi. 2021. *Forensic Science and the Living: The Ethics of "Determining" Age from Minor Children*. American Academy of Forensic Sciences' 73rd Annual Scientific Meeting, virtual.

DiGangi, E., **A. Gruenthal-Rankin** and M. Trimble. 2018. *Forensic Science, Death, and the Public: Towards Effective and Compassionate Communication*. American Association of Physical Anthropologists' 87th Annual Meeting, Austin, TX. *American Journal of Physical Anthropology* 165(S66): 68.

Gruenthal-Rankin, A., M. Ramsier, A. Koperkiewicz and M. Polcyn. 2016. *Investigating early-life stress and early death through growth disruption in a medieval Prussian sample*. 6th Annual Bioarchaeologists' Northeast Regional Dialogue, Oneonta, NY.

Gruenthal AM. 2010. *Differential Decomposition Patterns in Charred Versus Un-Charred Remains*. American Academy of Forensic Sciences' 62nd Annual Meeting, Seattle, WA. *Proceedings of the American Academy of Forensic Sciences*. 16: 355.

Selected Conference Posters

- Ramsier, M., **A. Gruenthal-Rankin**, K. Gaddis, and A. Koperkiewicz. *Dietary trends in the post-colonization medieval Prussian region*. American Association of Biological Anthropologists' 91st Annual Scientific Meeting, Denver, CO.
- Gaddis, K., M. Ramsier, A. Koperkiewicz, M. Polcyn, **A. Gruenthal-Rankin**. 2019. *Exploring Frailty in Bezlawki: A Modified Method for the Assessment of Frailty in Human Skeletal Remains*. American Association of Physical Anthropologists' 88th Annual Meeting, Cleveland, OH. *American Journal of Physical Anthropology* 168(S68): 80.
- Gruenthal-Rankin, A.**, K. Gaddis, A. Koperkiewicz, M. Polcyn, and M. Ramsier. 2019. *Testing the Effectiveness of Permanent Canine Tooth Metrics for Sex Estimation in a Medieval Prussian Sample*. American Association of Physical Anthropologists' 88th Annual Meeting, Cleveland, OH. *American Journal of Physical Anthropology* 168(S68): 93.
- Pinkston, E., **A. Gruenthal-Rankin**, S. Glasgow, and M. Ramsier. 2019. *Estimating Body Mass for Subadults: A Radiographic Study of the Femur*. American Association of Physical Anthropologists' 88th Annual Meeting, Cleveland, OH. *American Journal of Physical Anthropology* 168(S68): 191.
- Gruenthal-Rankin, A.**, M. Ramsier. 2018. *Osteological Findings from the Medieval Cemetery at Bezlawki (2012-2017)*. Bezlawki- Saved from Destruction- Scientific Symposium (Ocalić od Zniszczenia- Sympozjum Naukowe). Święta Lipka, Poland.
- Horvat, J., M. Ramsier, **A. Gruenthal-Rankin**, A. Koperkiewicz and M. Polcyn. 2018. *Nutrition and diet of a Late Medieval Prussian population: What the analysis of dental microwear can tell us*. American Association of Physical Anthropologists' 87th Annual Meeting, Austin, TX. *American Journal of Physical Anthropology* 165(S66): 125.
- Gruenthal-Rankin, A.**, M. Ramsier, A. Koperkiewicz and M. Polcyn. 2017. *Preliminary findings on relationships among neural canal dimensions, terminal adult stature, and risk of death in a medieval Polish sample at Bezlawki*. American Association of Physical Anthropologists' 86th Annual Meeting, New Orleans, LA. *American Journal of Physical Anthropology* 162(S64): 74.

GRANTS

Submitted

2023 **University of Hawai'i—West Oah'u IRES Engaged Scholar Seed Grant (\$2,300)**

Funded

2020 **Humboldt State University, Office of Research and Sponsored Programs Travel Award (\$5,000)**

2014 **Humboldt State University, Faculty Research Fund (Primary Author): Assessing Dietary Patterns and Skeletal Health at the Early Medieval Mortuary Site of Bezlawki, Poland (\$3,000).**

Unfunded

- 2018 **National Science Foundation, Doctoral Dissertation Research Improvement Grant:** *Tracing the Roots of Heterogeneity: Dietary Dimensions of Early-Life Stress in Medieval Poland* (\$21,353)
- 2017 **Wenner-Gren Dissertation Fieldwork Improvement Grant:** *Colonization in Medieval Prussia: Exploring Dietary Signals and Early-Life Stress* (\$13,328)
- 2014 **President's Loyalty Fund (Editor):** *X-Ray Fluorescence* (\$2,000- joint proposal with Archaeology Research Facility).

HONORS AND AWARDS

- 2021 **Edward H. Prentice Award.** Award for distinguished scholarship and contribution to academic and extracurricular life at Binghamton University. Binghamton University, NY
- 2020 **Dissertation Year Writing Award.** Department of Anthropology, Binghamton University, NY
- 2017 **High Pass.** Advanced Comprehensive Exams, Department of Anthropology, Binghamton University, NY
- 2009 **M.Sc. with Merit.** University of Central Lancashire, Preston, UK
- 2008 **B.A., *summa cum laude*.** Humboldt State University, Arcata, CA
- 2008 **Nominee, Award for Excellence in an Academic Discipline: Arts, Humanities and Social Sciences,** Humboldt State University, Arcata, CA
- 2004-2008 **Presidential Scholar,** Humboldt State University, Arcata, CA
- 2007 **Alfred Russel Wallace Distinguished Student in Biological Anthropology,** Humboldt State University, Arcata, CA

SELECTED FIELD AND LABORATORY EXPERIENCE

Laboratory Experience

- 2022- 2023 **Forensic Anthropologist,** Binghamton University Bioarchaeology and Forensics Laboratory, Binghamton, NY.
- 2015- 2021 **Forensic Assistant,** Binghamton University Bioarchaeology and Forensics Laboratory, Binghamton, NY.
- 2018 **Stable Isotope Sample Preparation Training,** Cornell University Stable Isotope Laboratory (COIL), Department of Ecology and Evolutionary Biology, Ithaca, NY.
- 2007 & 2010 **Autopsy Technician,** Humboldt County Coroner's Office, Eureka, CA.
- 2006-2015 **Forensic Anthropologist,** Humboldt County Coroner's Office, Eureka, CA.

Field Experience

- 2023 **Forensic Anthropologist**, Lāhainā Fire, Maui County, HI.
- 2017 & 2019 **Osteologist**, Carlisle Barracks Cemetery Exhumation Project, Carlisle, PA.
- 2014-2018 **Lead Osteologist**, Beżławki Cemetery Project (in conjunction with the University of Gdańsk), Beżławki, Poland.
- 2008, 2010-15 **Osteological Consultant**, Cultural Resource Facility, Center for Indian Community Development, Humboldt State University, Arcata, CA.
- 2009 **Osteological Consultant and Archaeologist**, Archaeological Excavation of Historic Mill Town, Cultural Resource Facility, Arcata, CA.
- 2009 **Archaeologist**, Excavation of British WWI Trench System, Auchonvillers, France.

FIELD REPORTS

Gruenthal Rankin, A., Ramsier, M., and Gaddis, K. (2018). Osteological findings for Beżławki, gm. Reszel, stan. XV (cmentarzysko) AZP 19-69/56. Submitted to the Slavia Foundation and University of Gdańsk.

Gruenthal Rankin, A., and Ramsier, M. (2017). Osteological findings for Beżławki, gm. Reszel, stan. XV (cmentarzysko) AZP 19-69/56. Submitted to the Slavia Foundation and University of Gdańsk.

Gruenthal Rankin, A., and Ramsier, M. (2016). Osteological findings for Beżławki, gm. Reszel, stan. XV (cmentarzysko) AZP 19-69/56. Submitted to the Slavia Foundation and University of Gdańsk.

Gruenthal Rankin, A., and Ramsier, M. (2015). Osteological findings for Beżławki, gm. Reszel, stan. XV (cmentarzysko) AZP 19-69/56. Submitted to the Slavia Foundation and University of Gdańsk.

Gruenthal Rankin, A., and Ramsier, M. (2014). Osteological findings for Beżławki, gm. Reszel, stan. XV (cmentarzysko) AZP 19-69/56. Submitted to the Slavia Foundation and University of Gdańsk.

MASTERS THESIS COMMITTEE SERVICE

Humboldt State University

- 2020 **Dorota Zabnicka** (Committee Member): *Testing the Effectiveness of Methods for Estimating Biological Sex from Subadult Skeletal Elements*
- 2019 **Jaclyn Scheer** (Committee Chair): *Analyzing Injury Profiles in Pedestrian Traffic Fatalities According to Vehicle Type*
- 2019 **Carrisa Pritchard** (Committee Member): *Assessing Craniofacial Variation and Sexual Dimorphism in a Skeletal Sample from Medieval Prussia.*
- 2018 **Katherine Gaddis** (Committee Chair): *Stress and Frailty in Medieval Prussia: Interpretations from Skeletal Remains at Beżławki.*

2018 **Diana Newberry Franco** (Committee Member): *United States-Mexico Border: Rights of the Dead, Forensic Anthropologists, and Families of the Victims.*

2017 **Erin Pinkston** (Committee Member): *Juvenile Remains: Predicting Body Mass and Stature in Modern American Populations.*

UNIVERSITY AND PROFESSIONAL SERVICE

2023-present **Academic Affairs and Planning Committee**, University of Hawai‘i- West O‘ahu, Kapolei, HI.

2023-present **Faculty Senate**, University of Hawai‘i- West O‘ahu, Kapolei, HI.

2023-present **Student Affairs Committee**, University of Hawai‘i- West O‘ahu, Kapolei, HI.

2023 **Invited Speaker**, University of Nevada, Las Vegas Proseminar Series
Title: *Who Are Our Stakeholders? Building a Community-Oriented Practice of Forensic Anthropology*

2016-2021 **Board Member**, Bioarchaeologists’ Northeast Regional Dialogue (BNRD).

2018 **Invited Lecturer**, University of West Florida, Pensacola, FL
Title: *Collaborative and Compassionate Work in Osteology: Exhumations at Carlisle Industrial Indian School Cemetery*

COMMUNITY OUTREACH AND SERVICE

2023 **Discussant**, British Columbia Indian Residential School Taskforce Dialogue Session (virtual).

2023 **Invited Commentator**, American Academy of Forensic Sciences Justice Talks
Title: *Whose Kuleana Is It? Addressing the Missing and Murdered Native Hawaiian Women, Girls, and Māhū Crisis through Forensic Anthropology and Community Collaboration* (co-author Dr. Nikki Cristobal, Pouhana O Nā Wāhine)

2023 **NAGPRA Consultant**, Kaua‘i Community College, Kikuchi Museum, Lihue, HI

2023 **Forensic Anthropologist**, Lāhainā Fire, Maui County, HI.

2023 **In-Service Training**, Honolulu Police Department, Major Crimes Division
Topic: *Historical and future roles of forensic anthropologists in the medicolegal setting*

2023 **Onizuka Day of Exploration**, University of Hawai‘i- West O‘ahu and Boy Scouts of America, Kapolei, HI
Workshop Title: *The Bone Lab: Comparative Osteology*

2014 **Karuk Tribal Monitor Training- Osteology**, Cultural Resource Facility, Arcata, CA
Topic: *Identifying bone fragments, human vs. non-human identification.*

2011 & 2014 **Invited Speaker**, Humboldt County Search and Rescue Posse
Topic: *Distinguishing between Human and Non-human Skeletal Remains*

MEDIA

Civil Beat: <https://www.civilbeat.org/2023/08/who-are-lahainas-dead-feds-step-up-id-effort-with-dna-forensics/>

TRAININGS AND CERTIFICATIONS

- 2020 **Human Bone Histology Workshop**, Australia National University
- 2009 **Dental Anthropology Short Course**, University of Bradford, UK
- 2009 **Radiation Safety and Radiograph Operation Training**, University of Central Lancashire, UK
- 2009 **Theodolite (Total Station) Training**, University of Central Lancashire, UK
- 2007 **Laboratory Methods**, University of Tennessee, Knoxville

LANGUAGES

English (native speaker)
Spanish (conversational)
Polish (beginner- can read with dictionary)

PROFESSIONAL MEMBERSHIPS

Associate Member, American Academy of Forensic Sciences (AAFS)
Member, American Association of Biological Anthropologists (AABA)

TECHNICAL AND SOFTWARE SKILLS

- Online learning platforms: Blackboard, Canvas, Moodle, Lulima
- FORDISC, Personal Computer Forensic Discriminant Functions
- MicroScribe 3D Digitizer
- ADBOU, age transition analysis software
- Theodolite (Total Station) operation
- ImageJ, image processing software
- Cabinet radiographic imaging system
- Wordpress, Wix