

CURRICULUM VITAE  
**JOSEPH T. HEFNER, PhD, D-ABFA**

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**EDUCATION**

Ph.D.	Anthropology	University of Florida	2007
M.A.	Anthropology	University of Florida	2003
PB	Forensic Anthropology	Mercyhurst College	2000
B.S.	Anthropology	Western Carolina University	1997

**RESEARCH INTERESTS**

Ancestry, Macromorphoscopic Trait Analysis, Categorical Data Analysis, Classification Statistics, Forensic Anthropology, Human Anatomy, Human Osteology, Human Variation, Cranial Nonmetric Traits, Nonparametric Statistics, Parametric Statistics, Quantitative Methods, Skeletal Biology, Trauma, Cremation

**PH.D. DISSERTATION**

“The Statistical Determination of Ancestry Using Cranial Nonmetric Traits”  
Chair: Dr. Michael W. Warren, D-ABFA

**APPOINTMENTS**

2014-Present Assistant Professor, Department of Anthropology, Michigan State University  
2019-2022 Adjunct Graduate Faculty, Department of Anthropology, Texas State University  
2021-Present Adjunct Graduate Faculty, Department of Anthropology, Central Washington University  
2010-2014 Forensic Anthropology Laboratory Manager, Joint POW/MIA Accounting Agency (now DPAA), Joint Base Pearl Harbor-Hickam, Honolulu, Hawaii  
2013-2015 Adjunct Graduate Faculty, Department of Anthropology, Texas State University  
2008-2010 Principal Investigator, Statistical Research, Inc. Tucson, Arizona  
2007-2008 Adjunct Faculty, Department of Anthropology, Mercyhurst College  
2007-2008 Adjunct Faculty, Department of Anthropology, University of Pittsburg-Titusville  
2005 Adjunct Faculty, Honors College, University of Florida

**MAJOR GRANT SUPPORT**

2021-present Co-Principal Investigator. “Developing standardized graphic libraries for anatomy: A focus on human craniofacial anatomy and phenotypes”. (PI: Melissa Clarkson). National Institutes of Health, Dental & Craniofacial Research (R01 DE030100-01A1). \$1,447,281

- 2021-present Co-Principal Investigator. "Consortium for Integrated Forensic Applications, Collaborations, and Technology Systems (IFACTS): Machine-Learning Methods for Death Investigation and Human Identification". ME Benbow, TW Fenton, **JT Hefner**, CV Isaac, JL Pechal, A Ross, RW Smith. Michigan State University Foundation. \$480,000
- 2020-2023 Co-Principal Investigator. "Anthropological Analysis of Victims of the Soviet-Era Terror in Georgia" (PI: M Gaonashvili). American Academy of Forensic Sciences, Humanitarian and Human Rights Resource Center. \$40,000
- 2019 Co-Principal Investigator. "Developing standardized graphic libraries for anatomy: A focus on human craniofacial anatomy and phenotypes". National Institutes of Health, Dental & Craniofacial Research \$1,500,000. *Not Funded*
- 2019 Principal Investigator. "The Macromorphoscopic Databank: Education, Implementation, and Evaluation". *National Institute of Justice*. \$788,129. *Not Funded*
- 2019-2021 Co-Principal Investigator. "Investigation of subadult dental age-at-death estimation using transition analysis and machine learning methods." (PI: Nicholas P. Herrmann). *National Institute of Justice* (NIJ 2018-DU-BX-0182). \$898,550.00
- 2015-2018 Principal Investigator. "A Macromorphoscopic Databank: Establishing the Statistical Analysis of Macromorphoscopic Data in Forensic Anthropology." *National Institute of Justice* (NIJ 2015-DN-BX-K012). \$423,959.00

#### **OTHER GRANT SUPPORT**

- 2004-2005 Principal Investigator. "Fourier Analysis of the Post-bregmatic Depression." (Co-PI: Ronald Wright). *Forensic Sciences Foundation*, Acorn Grant. \$1500.00
- 2002-2003 Principal Investigator. "Nonmetric Cranial Traits used in the Forensic Determination of Ancestry." *Forensic Sciences Foundation*, Lucas Grant. \$500.00

#### **HONORS, FELLOWSHIPS, AND AWARDS**

- 2019 ORISE, Visiting Scholar, Defense POW/MIA Accounting Command, Central Identification Laboratory, OFFUT Air Force, Omaha, Nebraska
- 2017 The Historic England Angel Awards (Honorable Mention). ***Written in Bone***
- 2017 ORISE, Senior Fellow, Defense POW/MIA Accounting Command, Central Identification Laboratory, Joint Base Pearl Harbor-Hickam, Hawaii
- 2014 The Joint Civilian Service Commendation Award, Department of Defense, Joint POW/MIA Accounting Command-Central Identification Laboratory
- 2011 Ellis R. Kerley Award. ***Random Forest Modeling and Ancestry Estimation***
- 2006 The William R. Maples Dissertation Fellowship. The Department of Anthropology, University of Florida
- 2003-2004 Emerging Forensic Scientist Award. Forensic Sciences Foundation, Inc.
- 2002-2003 J. Lawrence Angel Award. Anthropology Section Award, American Academy of Forensic Sciences

## COMPUTER PROGRAMS

- 2019 TA Dental (*alpha 1.0.1*). JT Hefner and KR Kamnikar. Computer Program. Michigan State University: East Lansing, MI.  
([https://macromorphoscopictraitanalysis.shinyapps.io/TA\\_Dental/](https://macromorphoscopictraitanalysis.shinyapps.io/TA_Dental/))
- 2018 MaMD Analytical (v. 0.1.2). JT Hefner. Computer Program. Michigan State University: East Lansing, MI.  
(<https://macromorphoscopictraitanalysis.shinyapps.io/MaMDAnalytical/>)
- 2018 KGU Sex Estimation (v.0.0.1). JT Hefner. Computer Program. Michigan State University: East Lansing, MI.  
([https://macromorphoscopictraitanalysis.shinyapps.io/KGU\\_Sex\\_Estimation/](https://macromorphoscopictraitanalysis.shinyapps.io/KGU_Sex_Estimation/))
- 2015 MMS [Macromorphoscopic Traits] (v. 1.6.1). SD Ousley and JT Hefner. Computer Program. Michigan State University: East Lansing, MI.

## PUBLICATIONS (\*Peer Reviewed)

### Books:

- 2018 *Atlas of Human Cranial Macromorphoscopic Traits*. JT Hefner, KC Linde. San Diego: Elsevier, Academic Press.

### Edited Volumes:

- \*2016 *Biological Distance Analysis: Forensic and Bioarchaeological Perspectives*. Eds. MA Pilloud, JT Hefner. San Diego: Elsevier, Academic Press.

### Journal Articles:

- \*in prep The Role of Pathological Lesions and Skeletal Anomalies in Personal Identification: A Skeletal Analysis of Hereditary Multiple Exostoses. CJ Devota, KR Kamnikar, JT Hefner, CV Isaac.
- \*in prep Elder Abuse in Forensic Anthropology: A Case Study. MC Spiros, JT Hefner, CV Isaac, B Hunter.
- \*in prep Craniometry of the modern human skull in northeast Thailand. N. Techataweewan, JT Hefner, N Surachotmongkhon, R Benchawattananon, J Pitathasung, N Tayles. Submission to: Asia-Pacific Journal of Science and Technology.
- \*In prep Impact of Age and Sex on Macromorphoscopic Trait Expression. AM Plemons, JT Hefner, S Tallman.
- Submitted Eye-Tracking to Assess Decision Making in the Evaluation of Cranial Morphology. S Nakhaeizadeh, MC Spiros, JT Hefner, T Thompson, RM Morgan. Forensic Science International. In review
- Submitted Race, population affinity, and mortality risk during the Second Plague Pandemic in 14th century London, England. R. Redfern, D. Kim, J. Hefner, S. Dewitte. American Anthropologist. In review

- \*In press Craniometric variation in a regional sample from Antioquia, Medellin, Colombia: Implications for forensic work in the Americas. KR Kamnikar, JT Hefner, TM Monsalve, LM Bernal-Florez. *Forensic Anthropology*.
- \*2021 Eugene “Gene” Giles. Biography. JT Hefner *Forensic Anthropology*. 4(1).
- \*2021 The use of bone fluorescence to facilitate DNA sampling. T Eleftheriou, K Papaioannou, A Christensen, JT Hefner. *Forensic Anthropology* 3:4
- \*2020 Ancestry Estimation in Forensic Anthropology: A Review. RR Dunn, MC Sprios, KR Kamnikar, AM Plemons, JT Hefner. *WIREs Forensic Sci.* 2020; e1369.  
<https://doi.org/10.1002/wfs2.1369>
- \*2020 Morphoscopic Ancestry Estimates in Filipino Crania Using Multivariate Probit Regression Models. M Go, JT Hefner. *Am J Phys Anthropol.* 2020. <https://doi.org/10.1002/ajpa.24008>
- \*2020 Ancestry Estimation Using Cranial and Postcranial Macromorphoscopic Traits. M Spiros, JT Hefner. *Journal of Forensic Sciences*, Early View, DOI: 10.1111/1556-4029.14231
- \*2020 Building constituencies through evidence-based outreach: Findings from an archaeological STEM camp for International Baccalaureate high school students in the USA. Stacey L. Camp, Joseph T. Hefner, Leigh Graves Wolf & Lynne Goldstein, *Journal of Community Archaeology & Heritage*, DOI: [10.1080/20518196.2019.1674474](https://doi.org/10.1080/20518196.2019.1674474)
- \*2019 Missing Data Imputation Methods Using Morphoscopic Traits and Their Performance in the Estimation of Ancestry. MW Kenyhercz, NV Passalacqua, JT Hefner. *Forensic Anthropology* 2(3):1:11. <http://dx.doi.org/10.5744/fa.2019.1015>
- \*2019 Observer error and its impact on ancestry estimation using dental morphology. MA Pilloud, DM Adams, JT Hefner. *International Journal of Legal Medicine* 133(3): 949-962. <https://doi.org/10.1007/s00414-018-1985-3>
- \*2018 The Macromorphoscopic Databank. *American Journal of Physical Anthropology* 166(4):994–1004.
- \*2018 Forensic Anthropology: A Journal for our Discipline. NV Passalacqua, AM Christensen, JT Hefner. *Forensic Anthropology* 1(1):1-3.
- \*2018 Forensic fractography of bone: A new approach to skeletal trauma analysis. AM Christensen, JT Hefner, MA Smith, JB Webb, MC Bottrell, TW Fenton. *Forensic Anthropology* 1(1):32-51.
- \*2017 Intraobserver Error in Macromorphoscopic Trait Analysis. KR Kamnikar, AM Plemons, and JT Hefner. *Journal of Forensic Sciences*. doi:10.1111/1556-4029.13564
- \*2017 Application of the Stephan et al. chest radiograph comparison method to decomposed human remains. MI Isa, JT Hefner, MA Markey. *Journal of Forensic Sciences*. doi:10.1111/1556-4029.13432.
- \*2016 Craniofacial Secular Change in Recent Mexican Migrants. MK Spradley, K Stull, JT Hefner. *Human Biology*, 88(1):15-29.
- \*2016 Possible Achondroplastic Dwarf Skull from Montevideo, Uruguay. JT Hefner, MW Warren. *Journal of Forensic Sciences*, doi: 10.1111/1556-4029.13186.

- \*2016 Ancestry Estimation using Macromorphoscopic Traits. A Plemons, JT Hefner. *Academic Forensic Pathology*, 6(3)400-412. doi: 10.1433/afpj.2014-1234.
- \*2016 Going South of the River: A Multidisciplinary Analysis of Ancestry, Mobility and Diet in a Population from Roman Southwark, London. RC Redfern, DR Gröcke, AR Millard, V Ridgeway, L Johnson, JT Hefner. *J Arch Science*, 74:11-22.  
<http://dx.doi.org/10.1016/j.jas.2016.07.016>.
- \*2016 Macromorphoscopic Trait Expression in a Cranial Sample from Medellín, Colombia. TM Vargas, JT Hefner. *For Science International*, DOI:  
<http://dx.doi.org/10.1016/j.forsciint.2016.07.014>.
- \*2016 Beyond Taphonomy: Craniometric Variation within Anatomical Material. JT Hefner, B Spatola, N Passalacqua, T Gocha. *Journal of Forensic Sciences*, DOI: 10.1111/1556-4029.13177.
- \*2015 Morphoscopic Trait Expression in ‘Hispanic’ Populations. JT Hefner, MA Pilloud, CJ Black, BE Anderson. *Journal of Forensic Sciences*, Article first published online: 14 AUG 2015  
DOI: 10.1111/1556-4029.12826.
- \*2015 The Use of Femoral Neck Axis Length (FNAL) to Estimate Sex and Ancestry. R Meeusen, A Christensen, J Hefner. *Journal of Forensic Sciences*, Article first published online: 10 AUG 2015 | DOI: 10.1111/1556-4029.12820.
- \*2014 The Use of Tooth Crown Measurements in the Assessment of Ancestry. M Pilloud, JT Hefner, T Hanihara, A Hyashi. *Journal of Forensic Sciences*, 59(6) 1493-1501.
- \*2014 Statistical Classification Methods for Estimating Ancestry using Morphoscopic Traits. JT Hefner, SD Ousley. *Journal of Forensic Sciences*, 59(4) 883-890.
- \*2014 Random Forest Modeling and Ancestry Estimation. JT Hefner, MK Spradley, B Anderson. *Journal of Forensic Sciences*, 59(3) 583-589.
- \*2013 Congenital Os Odontoideum: An Unusual Constellation of Skeletal Features in an Osteological Specimen from Thailand. RW Mann, P Tuamsuk, JT Hefner. *International Journal of Paleopathology*, 3: 302-306.
- \*2009 Cranial Nonmetric Variation and Estimating Ancestry. JT Hefner. *Journal of Forensic Sci*, 54( 5) 985-995.

#### **Book Chapters:**

In press *Race and Science*. R Redfern and JT Hefner. In: K Coles and D Kim (Eds). A Cultural History of Race in the Renaissance and Early Modern Age. Bloomsbury Academic: London.

In press Ancestry estimation using morphological characteristics. KR Kamnikar, AM Plemons, MC Spiros, JT Hefner. In: J. Valdes, M.E. Quinto-Sanchez (Eds). *Avances en Antropologia Forense*.

\*2019 “Ancestry Estimation Using Craniometric and Macromorphoscopic Data: Analytical Feasibility and 21st Century Transnationalism” JT Hefner and JF Byrnes. In, Case Studies in Forensic Anthropology: Bonified Skeletons. Eds. Garvin-Elling, H, NR Langley. CRC: Boca Raton.

- \*2019 *"Officially absent but actually present": bioarchaeological evidence for population diversity in London during the Black Death, 1348-50 AD.* In, *Bioarchaeology of Marginalized People*. Eds. Mant, ML, AJ Holland. Elsevier Press: London.
- \*2018 "From Blumenbach to Howells: The slow, painful emergence of theory through forensic race estimation" SD Ousley, RL Jantz, JT Hefner. *Forensic Anthropology: Theoretical Framework and Scientific Basis*, C. Clifford Boyd, Jr. and Donna C. Boyd, editors. Forensic Science in Focus Series. Cambridge: Wiley-Blackwell in association with the American Academy of Forensic Sciences, pp. 65-97.
- \*2018 "Advances in Cranial Macromorphoscopic Trait and Dental Morphology Analysis for Ancestry Estimation" MA Pilloud, C Maier, GR Scott, JT Hefner. In, *New Perspectives in Forensic Human Skeletal Identification*. Eds. Krista Latham, Eric Bartelink, Michael Finnegan. Academic Press: San Diego, pp. 23-34.
- 2017 "Krogman, Wilton (1903-1987)" NJ Sauer, JT Hefner. *The International Encyclopedia of Biological Anthropology*.
- 2017 "Ancestry: Forensic Applications" JT Hefner, MK Spradley. *The International Encyclopedia of Biological Anthropology*.
- \*2016 "Human Variation" JT Hefner, CL Nagle, PB Stanton. In *People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles: Bioarchaeology and Paleodemography*, edited by PB Stanton, JG Douglas, SN Reddy, 235-244. Tucson, AZ: SRI Press.
- \*2016 "Preservation and Population" PB Stanton and JT Hefner. In *People in a Changing Land: The Archaeology and History of the Ballona in Los Angeles: Bioarchaeology and Paleodemography*, edited by PB Stanton, JG Douglas, SN Reddy, 209-234. Tucson, AZ: SRI Press.
- \*2016 "Cranial Nonmetric and Morphoscopic Data Sets" C Pink, C Maier, M Pilloud, JT Hefner. In, *Biological Distance Analysis: Forensic and Bioarchaeological Perspectives*. Edited by MA. Pilloud and JT Hefner. San Diego: Elsevier, Academic Press, pp. 91-107.
- \*2016 "Biological Distance Analysis, Cranial Morphoscopic Traits, and Ancestry Assessments in Forensic Anthropology" JT Hefner. In, *Biological Distance Analysis: Forensic and Bioarchaeological Perspectives*. Edited by MA. Pilloud and JT Hefner. San Diego: Elsevier, Academic Press, pp. 301-316.
- \*2016 "A Brief History of Biological Distance Analysis". In, *Biological Distance Analysis: Forensic and Bioarchaeological Perspectives*" JT Hefner, MA Pilloud, CC Volgelsberg, JE Buikstra. Edited by MA. Pilloud and JT Hefner. San Diego: Elsevier, Academic Press. pp. 3-22.
- 2016 "The Assessment of Ancestry and the Concept of Race" NJ Sauer, JC Wankmiller, JT Hefner. In, *Handbook of Forensic Anthropology and Archaeology*, edited by Soren Blau and Douglas H. Ubelaker. World Archaeological Congress (WAC) Research Handbooks in Archaeology Series. Left Coast Press, Inc. Walnut Creek, California, pp. 187-200.

- 2016 "Cultural Affinity, Identity, and Relatedness: Distinguishing Individuals and Cultural Groups" Lynne Goldstein, JT Hefner, Kristin J. Sewell, and Michael P. Heilen. In *Uncovering Identity in Mortuary Analysis: Community-Sensitive Methods for Identifying Group Affiliation in Historical Cemeteries*, edited by Michael P. Heilen, 23-52. Walnut Creek, CA: Left Coast Press, Inc. and Tucson, AZ: SRI Press.
- 2016 "Life, Death, and Dying in Southeastern Arizona, 1860-1880: Historical Accounts and Bioarchaeological Evidence" Michael P. Heilen, JT Hefner, and Mitchell A. Keur. In *Uncovering Identity in Mortuary Analysis: Community-Sensitive Methods for Identifying Group Affiliation in Historical Cemeteries*, edited by Michael P. Heilen, 105-164. Walnut Creek, CA: Left Coast Press, Inc. and Tucson, AZ: SRI Press.
- 2016 "Mortuary Synthesis" Lynne Goldstein, Kristen Sewell, Michael P. Heilen, and JT Hefner. In *Uncovering Identity in Mortuary Analysis: Community-Sensitive Methods for Identifying Group Affiliation in Historical Cemeteries*, edited by Michael P. Heilen, 185-250. Walnut Creek, CA: Left Coast Press, Inc. and Tucson, AZ: SRI Press.
- 2015 "Case Studies in Skeletal Blast Trauma" NA Willits, JT Hefner, MT Tersigni-Tarrant. In *Skeletal Trauma Analysis: Case Studies in Context*. NV Passalacqua and CW Rainwater (editors). Wiley-Blackwell Press: NY. pp. 177-188.
- \*2014 "Cranial Morphoscopic Traits and the Assessment of American Black, American White, and Hispanic Ancestry" JT Hefner. In *Biological Affinity in Forensic Identification of Human Skeletal Remains: Beyond Black and White*. Edited by Sabrina Ta'ala and Gregory Berg. Taylor & Francis Group, LLC; Boca Raton, FL, pp. 27-42.
- 2013 "Ancestry Estimation" E DiGangi and JT Hefner. In *Research Methods in Skeletal Biology*, edited by Megan K. Moore and Elizabeth A. DiGangi. Academic Press: New York, NY. Pp. 117-150.
- 2012 "Morphoscopic Traits and the Assessment of Ancestry" JT Hefner, Dennis C. Dirkmaat, and Stephen D. Ousley. In *A Companion to Forensic Anthropology*, edited by Dennis C. Dirkmaat. Wiley-Blackwell: Malden, MA. Pp. 287-310.
- 2011 "Macromorphoscopies" JT Hefner. *Osteoware™ Software Manual, Volume I*. Edited by CA Wilczak and JC Dudar. Smithsonian Institution, Washington, DC.

### Reviews, Editorials, Front Matter:

- 2021 Bioarchaeological evidence for Black women in 14th century London. R. Redfern and JT Hefner. <https://www.museumoflondon.org.uk/discover/bioarchaeological-evidence-black-women-14th-century-london>. Last accessed 31 March 2021.
- 2020 Black Death and population diversity in Medieval London. R. Redfern and JT Hefner. <https://www.museumoflondon.org.uk/unpublished/black-death-and-population-diversity-medieval-london>. Last accessed 08 October 2020.
- 2019 Foreword: *Forensic Anthropology: Current Methods and Practice*, 2<sup>nd</sup> edition. Christensen A, NV Passalacqua, E Bartlink.
- 2017 Book review: *Photographic Regional Atlas of Non-Metric Traits and Anatomical Variants in the Human Skeleton*. *Journal of Forensic Sciences*. 62(2). doi: 10.1111/1556-4029.13377.

- 2013 Book review: A Bioarchaeological Study of Medieval Burials on the Site of St. Mary Spital: Excavations at Spitalfields Market, London E1, 1991-2007. *Historical Archaeology*, 47(2):146–147.
- 2009 Book review: Comparative Skeletal Anatomy: A Photographic Atlas for Medical Examiners, Coroners, Forensic Anthropologists, and Archaeologists. *American Journal of Physical Anthropology* 139(3): 445-446.

#### **Miscellaneous Printed Reports:**

- 2016 Osteological Analysis for Archaeological Collections Management/ Ethnicity Determination – Joint Region Marinas, Guam. JT Hefner, KC Linde. Technical Report. Contract No. N40192-14-M-5013, Client: NAVFAC MARIANAS. Garcia and Associates Tech Report No. 2312-2.
- 2015 Archaeological Monitoring and Data Recovery at the Graphic Center, Lot 2116-R2New, Tamuning, Guam, Part of the Apotguan Village Site, 66-01-0177. JT Hefner, KC Linde. Technical Report. Contract No. JK060116-JTH-BFAS-02, Client: Micronesian Archaeological Research Services, Inc. Bioarchaeology and Forensic Anthropology Services. Tech Report No: JK060115-JTH-BFAS-02.
- 2012 Bioarchaeology of the Alameda-Stone Cemetery. JT Hefner, MP Heilen, MA Keur. In *The History, Archaeology, and Skeletal Biology of the Alameda-Stone Cemetery*, edited by Michael P. Heilen, JT Hefner, Mitchell A. Keur, pp. 399-458. *Deathways and Lifeways in the American Southwest: Tucson’s Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City*, vol. 2, MP Heilen and M Gray, series editors. Technical Report 10-96. Statistical Research, Tucson.
- 2012a Cultural Affinity Statement. JT Hefner, MP Heilen, and KJ Sewell. In *Context and Synthesis from the Joint Courts Complex Archaeological Project*, Tucson, Arizona, edited by Michael P. Heilen and Marlessa A. Gray, Appendix D (CD-ROM). *Deathways and Lifeways in the American Southwest: Tucson’s Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City*, vol. 1, Michael P. Heilen and Marlessa Gray, series editors. Technical Report 10-95. Statistical Research, Tucson.
- 2012b Cultural Affinity Plan. JT Hefner, MP Heilen, and KJ Sewell. In *Context and Synthesis from the Joint Courts Complex Archaeological Project*, Tucson, Arizona, edited by Michael P. Heilen and Marlessa A. Gray, Appendix D (CD-ROM). *Deathways and Lifeways in the American Southwest: Tucson’s Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City*, vol. 2, Michael P. Heilen and Marlessa Gray, series editors. Technical Report 10-95. Statistical Research, Tucson.
- 2012a Military Identification Plan. MP Heilen, JT Hefner, KJ Sewell, and MA Keur. In *Context and Synthesis from the Joint Courts Complex Archaeological Project*, Tucson, Arizona, edited by Michael P. Heilen and Marlessa A. Gray, Appendix D (CD-ROM). *Deathways and Lifeways in the American Southwest: Tucson’s Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City*, vol. 2, Michael P. Heilen and Marlessa Gray, series editors. Technical Report 10-95. Statistical Research, Tucson.



- 2012b Military Identification Statement, MP Heilen, JT Hefner, KJ Sewell, and MA Keur. In Context and Synthesis from the Joint Courts Complex Archaeological Project, Tucson, Arizona, edited by Michael P. Heilen and Marlessa A. Gray, Appendix D (CD-ROM). Deathways and Lifeways in the American Southwest: Tucson's Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City, vol. 2, Michael P. Heilen and Marlessa Gray, series editors. Technical Report 10-95. Statistical Research, Tucson.
- 2012 The History, Archaeology, and Skeletal Biology of the Alameda-Stone Cemetery. Volume II. Edited by MP Heilen, JT Hefner, and MA Keur. Deathways and Lifeways in the American Southwest: Tucson's Historic Alameda-Stone Cemetery and the Transformation of a Remote Outpost into an Urban City, vol. 2, Michael P. Heilen and Marlessa Gray, series editors. Technical Report 10-95. Statistical Research, Tucson.
- 2010 Human Skeletal Remains from the Joint Courts Complex Archaeological Data Recovery Project . JT Hefner and MA Keur (editors). In, Skeletal Biology of the Alameda-Stone Cemetery. Volume II. Edited by, JT Hefner, Mitchell A. Keur, and Michael Heilen. Contract No. 07-73-S138479-0806. Statistical Research, Inc. Technical Series, No. 10-04, pp. 1.1-1.8.
- 2010 Biological Distance and Geospatial Analysis. JT Hefner. In, Skeletal Biology of the Alameda-Stone Cemetery. Volume II. Edited by, JT Hefner, Mitchell A. Keur, Michael Heilen. Statistical Research, Inc. Technical Series, No. 10-04, pp. 4.1-4.23.
- 2010 Conclusions: Skeletal Biology of the Alameda-Stone Cemetery Interments. MP Heilen, JT Hefner, MA Keur, Amber Harrison, Tamara Lehrer, and Patrick Stanton. In, Skeletal Biology of the Alameda-Stone Cemetery. Volume II. Edited by, JT Hefner, Mitchell A. Keur, and Michael Heilen. Contract No. 07-73-S138479-0806. Statistical Research, Inc. Technical Series, No. 10-04, pp. 1.1-1.8.
- 2010 Mortuary Synthesis. L Goldstein, KJ Sewell, M Heilen, JT Hefner. In, Deathways and Lifeways in the American Southwest, Volume 1 (M Heilen and M Gray, eds.). Statistical Research, Inc., Technical Report 10-95, Tucson, AZ; pp. 143-155.
- 2010 Cultural Affinity, Identity, and Relatedness: Distinguishing Individuals and Cultural Groups in the Alameda-Stone Cemetery. L Goldstein, JT Hefner, KJ Sewell, M Heilen. In, Deathways and Lifeways in the American Southwest, Volume 1 (M Heilen and M Gray, eds.). Statistical Research, Inc., Technical Report 10-95, Tucson, AZ; pp. 143-155.
- 2008 Cultural Affinity Assessment of the Human Remains Dating after 1775 at the Joint Courts Complex Archaeological Data Recovery Project. JT Hefner, MP Heilen, K Sewell. Technical Report 08-54, Statistical Research, Inc.
- 2008 End-of-Fieldwork Report for the Joint Courts Complex Archaeological Data Recovery Project. JD Hall, S O'Mack, M Heilen, K Swope, JT Hefner, K Sewell, M Gray. Technical Report 08-50, Statistical Research, Inc.

## PRESENTATIONS

### Conference Presentations:

- 2021 Advisor Influence in the American Journal of Physical Anthropology. Rhian Dunn, Nicholas V. Passalacqua, Joseph T. Hefner, Katie Zejdlik. American Association of Physical Anthropology. Virtual Meeting.
- 2021 The Impact of Forensic Anthropology Manuscripts in the American Journal of Physical Anthropology. Rhian Dunn, Nicholas V. Passalacqua, Joseph T. Hefner, Katie Zejdlik. American Academy of Forensic Sciences. *Virtual Meeting*.
- 2021 Evolution of cranial macromorphoscopic trait variation in modern humans. Hugo Reyes-Centeno and Joseph T. Hefner. Human Biology Association, *Virtual Meeting*.
- 2020 The Use of Eye Tracking Technology in Forensic Anthropology: An Empirical Approach to Advancing the Understanding of Complex Visual Tasks in Cranial Macromorphoscopic Trait Evaluations. Sherry Nakhaeizadeh; Micayla C. Spiros, Joseph T. Hefner; Tim Thompson; Ruth M. Morgan. Proceedings of the American Academy of Forensic Sciences, Anaheim, CA.
- 2020 Eye Tracking to Assess Decision-Making in Cranial Macromorphoscopic (MMS) Trait Evaluation: Implications of Education and Training in Method Application. Micayla C. Spiros, Sherry Nakhaeizadeh; Tim Thompson; Ruth M. Morgan, Joseph T. Hefner. Proceedings of the American Academy of Forensic Sciences, Anaheim, CA.
- 2020 A Comparison of Two Dental Age Estimation Methods Using Transition Analysis (TA). Kelly R. Kamnikar, Amber M. Plemons, Nicholas P. Herrmann, Jennifer E. Spence, Yann Heuzé, Joseph T. Hefner. Proceedings of the American Academy of Forensic Sciences, Anaheim, CA.
- 2020 A Geometric Morphometric Approach to Quantify the Impact of Admixture on Craniofacial Form. Joseph T. Hefner, Amber M. Plemons.
- 2020 Variation in Cranial Variance: Patterns of variation in a diverse American population. I Dwyer, JT Hefner, MK Spradley. Proceedings of the American Association of Physical Anthropology. Proceedings of the American Academy of Forensic Sciences, Anaheim, CA.
- 2020 Ancestry and Admixture Estimates for Filipino Crania Using Morphoscopic Traits Under a Multivariate Probit Regression Model. MC Go, JT Hefner. Proceedings of the American Association of Physical Anthropology.
- 2020 The Effects of Taphonomic Distortion on Fluctuating Asymmetry Analysis in a Historic Hispanic Population. RM Meloro, JT Hefner, VB Deleon. Proceedings of the American Association of Physical Anthropology.
- 2019 Bioarchaeological evidence for population diversity in Medieval London. R Redfern and JT Hefner. British Association for Biological Anthropology and Osteoarchaeology. London, UK. R Redfern and JT Hefner.
- 2019 Population Diversity in Medieval London. What's Happening in Black British History? X. UK National Charity for History. University of Leicester, Leicester, UK.

- 2019 Sexual Dimorphism of Cranial Fluctuating Asymmetry in a Historic Hispanic Population. RM Meloro, JT Hefner, M Heilen, V DeLeon. Proceedings of the American Association of Physical Anthropology. 168: 164.
- 2019 Macromorphoscopic Trait Analysis in Forensic Anthropological Casework. JT Hefner and SD Ousley. Proceedings of the American Academy of Forensic Sciences, Baltimore, Maryland.
- 2019 A Reevaluation of Tooth Crown Measurements in the Estimation of Ancestry Using Random Forest Classification. MW Kenyhercz, M Pilloud, JT Hefner. Proceedings of the American Academy of Forensic Sciences, Baltimore, Maryland.
- 2018 Structural Violence and Disease: Epistemological Considerations for Bioarchaeology. LN Bright, JT Hefner. *Supplement, American Journal of Physical Anthropology* 165(1):36.
- 2018 Refining Asian Ancestry Classifications via Cranial Macromorphoscopic Traits. AM Plemons, KR Kamnikar, JT Hefner. *American Journal of Physical Anthropology* 165(1).
- 2018 Establishing Cultural Affinity through Multiple Lines of Evidence. JT Hefner and M Heilen. Society for American Archaeology Annual meeting, Washington, DC.
- 2018 Refining Asian Ancestry Classifications via Cranial Macromorphoscopic Traits. A Plemons, JT Hefner, KR Kamnikar. American Association of Physical Anthropologists meeting, Austin, TX, March 2018.
- 2018 Systematic Bias in the Macromorphoscopic Databank. H Trevino and JT Hefner. Michigan State University Undergraduate Research Symposium, East Lansing, MI, March 2018.
- 2018 A Paleodemographic Study of Medieval Nubia. L. Steele and JT Hefner. Michigan State University Undergraduate Research Symposium, East Lansing, MI, March 2018.
- 2018 Age-Cohort Categorization and Multi-Factorial Age Estimation in Machine Learning Environments. Proceedings of the American Academy of Forensic Sciences, Seattle, Washington.
- 2018 Forensic Fractography of Bone: A New Approach to Skeletal Trauma Analysis. A Christensen, JT Hefner, MA Smith, J Webb, MC Bottrell, TW Fenton. Proceedings of the American Academy of Forensic Sciences, Seattle, Washington.
- 2017 Long-term Observer Error, Observer Experience, and the Value of Trait Standardization in Macromorphoscopic Trait Analysis. KR Kamnikar and JT Hefner. Proceedings of the American Academy of Forensic Sciences, New Orleans, LA.
- 2017 Introducing the Macromorphoscopic Databank: A data collection and analytical tool for the analysis of macromorphoscopic trait data. JT Hefner and AM Plemons. Proceedings of the American Academy of Forensic Sciences, New Orleans, LA.
- 2017 Observer Error and Its Impact on Ancestry Estimation Using Dental Morphology. DM Adams, MA Pilloud, HJH Edgar, JT Hefner. Proceedings of the American Academy of Forensic Sciences, New Orleans, LA.
- 2017 Digging Up the Past — An Atypical Medical Examiner’s Case. H Scott, JT Hefner, PR Croft. Proceedings of the American Academy of Forensic Sciences, New Orleans, LA.

- 2016 Using Non-Metric Traits to Estimate Ancestry in the 21st Century. MK Spradley and JT Hefner. American Association of Physical Anthropologists, Atlanta, GA, April 2016.
- 2016 Spatial Analysis on a Global Scale: Cranial Non-Metric Trait Variability. JT Hefner and CCM Vogelsberg. Proceedings of the American Academy of Forensic Sciences, Las Vegas, NV. pp. 105.
- 2016 Missing Data Imputation Methods Using Morphoscopic Traits and Their Performance in the Estimation of Ancestry. MW Kenyhercz; NV Passalacqua, JT Hefner. Proceedings of the American Academy of Forensic Sciences, Las Vegas, NV. pp. 112.
- 2015 A Brief History of Biological Distance Analysis. JT Hefner, M Pilloud. Poster presented at the American Association of Physical Anthropologists meeting, St. Louis, MO, March 2015.
- 2015 The “New Deal” of Non-Metric Traits: Morphoscopic Trait Analysis in the 21st Century. In, Ancestry Estimation in the 21st Century, MK Spradley, JT Hefner. Proceedings of the American Academy of Forensic Sciences, Orlando, Florida. pp. 69-70.
- 2015 The Use of Femoral Neck Axis Length to Estimate Sex and Ancestry. R Meeusen, A Christensen, JT Hefner. Proceedings of the American Academy of Forensic Sciences, Orlando, Florida. pp. 124.
- 2015 Morphoscopic Trait Expression within and among Hispanic populations. JT Hefner, M Pilloud, C Black, B Anderson. Proceedings of the American Academy of Forensic Sciences, Orlando, Florida. pp. 124.
- 2015 From Blumenbach to Howells: The Slow, Painful Emergence of Theory in Forensic Race Estimation. R Jantz, SD Ousley, JT Hefner. Proceedings of the American Academy of Forensic Sciences, Orlando, Florida. pp. 128.
- 2014 Statistical Classification Methods for Estimating Ancestry Using Morphoscopic Traits. JT Hefner SD Ousley. Proceedings of the American Academy of Forensic Sciences, Seattle, Washington.
- 2013 The Contributions of Richard Jantz to the Development, Implementation, and Continuance of the Forensic Anthropology Data Bank. MK Spradley, JT Hefner, SD Ousley. Proceedings of the American Academy of Forensic Sciences, Washington, DC. 19: 406-407.
- 2011 Ancestry Estimation using Random Forest Modeling. JT Hefner, MK Spradley, and Bruce Anderson. Proceedings of the American Academy of Forensic Sciences, Chicago, Illinois. 17: 352-353.
- 2010 Identity and Cemetery Organization: The View from a Historical-Period Cemetery in Downtown Tucson, Arizona, 1862-1881. Michael Heilen, Lynne Goldstein, JT Hefner, and Kristin Sewell. The Spatial Archaeology of Identity: Past, Present, Future at the 43rd Annual Conference of the Society for Historical and Underwater Archaeology, Jacksonville, Florida.

- 2010 Historical and Skeletal Demography: Geospatial Approaches in the Interpretation of a Historical-Period Cemetery. JT Hefner, Michael P. Heilen, and Nicholas Herrmann. Paper presented in the symposium, The Spatial Archaeology of Identity: Past, Present, Future at the 43rd Annual Conference of the Society for Historical and Underwater Archaeology, Florida.
- 2009 A Multidisciplinary Approach for the Determination of Cultural Affinity: Incorporating Contextual, Osteological, and Historical Documentation. JT Hefner, KJ Sewell. Paper presented at the Society for American Archaeology Annual meeting, Atlanta, Georgia.
- 2009 Morphoscopic Traits: Mixed Ancestry, Hispanics, and Biological Variation. JT Hefner. Paper presented at the American Academy of Forensic Science Annual meeting, Chicago, Illinois, February 2009.
- 2009 A Statistical Assessment of Cranial and Mandibular Morphoscopic Traits Used in the Determination of Ancestry. Nicolette Parr, JT Hefner. Paper presented at the American Academy of Forensic Science Annual meeting, Chicago, Illinois, February 2009.
- 2009 Cranial variability in 19th century Tucson. M. Kate Spradley, JT Hefner, and Nicholas P. Herrmann. Paper presented at the American Association of Physical Anthropologists meeting, Denver, Colorado, April 2009.
- 2009 Insights into the Historical and Skeletal Demography of an Early Tucson Cemetery. NP Herrmann, WR Trask, M Heilen, JT Hefner, and LW Konigsberg. Paper presented at the American Association of Physical Anthropologists meeting, Denver, Colorado, April 2009.
- 2007 The Value of Education and Experience in the Determination of Ancestry. JT Hefner, Paul Emanovsky, John Byrd, and Stephen Ousley. Proceedings of the American Academy of Forensic Science, San Antonio, TX.
- 2006 Morphoscopic Traits and the Statistical Determination of Ancestry: Part II. JT Hefner, SD Ousley. Proceedings of the Annual meeting of the American Academy of Forensic Sciences, Seattle, WA.
- 2005 Morphoscopic Traits and the Statistical Determination of Ancestry. SD Ousley, JT Hefner. Proceedings of the Annual meeting of the American Academy of Forensic Sciences, New Orleans, LA.
- 2004 A Circuitous Path: From Late Archaic Archaeology to Modern Homicides. JT Hefner. Paper presented at the 56th Annual meeting of the American Academy of Forensic Sciences, Young Forensic Scientists Forum, Dallas, TX.
- 2004 An Historical Perspective of Nonmetric Traits: Hooton and the Harvard List. JT Hefner, SD Ousley, and Michael W. Warren. Proceedings of the American Academy of Forensic Sciences, Dallas, TX.
- 2003 "Commorients of September 11: Forensic Anthropology Responds to the Terrorist Attacks" 55th Annual meeting of the American Academy of Forensic Sciences, Chicago, IL.

- 2003 Roles of the Biological Anthropologist in the Response to Terrorist Attack on United Airlines Flight 93, September 11, 2001. MR London, LT Barbian, DM Mulhern, PS Sledzik, DC Dirkmaat, L Fulginiti, JT Hefner, NJ Sauer. Paper presented at the 55th Annual meeting of the American Academy of Forensic Sciences, Chicago, IL.
- 2003 The Utility of Nonmetric Cranial Traits in Ancestry Determination - Part II. JT Hefner. Paper presented at the 55th Annual meeting of the American Academy of Forensic Sciences, Chicago, IL. Winner: Emerging Forensic Scientist Award, Forensic Sciences Foundation, 2003.
- 2002 Identification of Sharp Force Trauma in Burned Remains Utilizing *Odocoileus virginianus* as a Valid Research Tool," PD Emanovsky, JT Hefner, DC Dirkmaat. Paper to be presented at the 54th Annual meeting of the American Academy of Forensic Sciences, Atlanta, GA.
- 2002 An Assessment of Craniofacial Nonmetric Traits Currently Used in the Forensic Determination of Ancestry. JT Hefner. Paper presented at the 54th Annual meeting of the American Academy of Forensic, Atlanta, GA. Winner: J. Lawrence Angel Forensic Anthropology Student Paper Award, 2002.
- 2001 A Case of Dismemberment: Saw Mark Analysis, Sharp Force Trauma, and Blunt Force Chopping Wounds. JT Hefner. Paper presented at the annual meeting of the Northeastern Forensic Anthropology Association, Erie, PA.
- 2000 Forensic Processing of the Terrestrial Mass Fatality Scene: Testing New Search, Documentation, and Recovery Methodologies. DC Dirkmaat, JT Hefner. Paper presented at the 53rd Annual meeting of the American Academy of Forensic Sciences, Seattle, WA.
- 2000 Enhancing the Documentation of Crime Scene Contexts: Recent Advances in Forensic Archaeology. JT Hefner, DC Dirkmaat, J Schultz. Presented at the 66th Annual Meeting of the Society for American Archaeology.
- 1995 Analysis of Human Remains from an Unknown Provenience. JT Hefner. Western Carolina University Undergraduate Research Conference.

**Invited Lectures:**

- 2021 Ancestry Estimation Methods. Instructor, Forensic Anthropology. Mercyhurst University Erie, PA. Week long workshop.
- 2019 Ancestry Estimation Methods. Instructor, Forensic Anthropology. Mercyhurst University Erie, PA. Week long workshop.
- 2018 Ancestry Estimation Methods. Instructor, Ancestry Estimation in Forensic Anthropology. University of Tennessee, Knoxville, TN. 3-day workshop.
- 2017 Keynote address: International Association of Craniofacial Identification. *Macromorphoscopic Traits: Innovation & Future Directions*. Brisbane, Australia.
- 2017 James J. Woods Lecture Series. Forensic Anthropology and Modern Human Variation. Butler University, Indianapolis, Indiana
- 2016 Invited Lecture, A Career in Biological Anthropology. Western Carolina University, Cullowhee, NC

- 2016 Invited Lecture, Morphoscopic Trait Analysis in Forensic Anthropology. Khon Kaen University, Khon Kaen, Thailand
- 2015 Invited Lecture, Morphoscopic Trait Analysis in Forensic Anthropology. Universidad de Antioquia, Medellin, Colombia
- 2015 Invited Lecture, Migrant Identification along the US-Mexico Border, Texas State University, San Marcos, Texas, March 7, 2015
- 2013 Invited Lecture, 9th Annual Chico Forensic Conference: November 2nd, 2013.
- 2012 Instructor, Detection and Recovery of Human Remains, Chaminade University, Honolulu, HI.
- 2009 Lecturer, Laboratory Methods in Forensic Anthropology, University of Tennessee, Knoxville, TN.
- 2008 Lecturer, Quantitative Methods in Forensic Anthropology. American Academy of Forensic Sciences 60th Annual Meeting, Washington, DC.
- 2008 Lecturer, FORDISC Workshop: Postcranial Measurements. Washington, DC. Presented by Richard Jantz, Stephen Ousley, and M. Kate Spradley.
- 2007 Instructor, Laboratory Methods in Forensic Anthropology 2007. Seminar presented by Mercyhurst Archaeological Institute, Forensic Anthropology/Osteology Laboratory, Erie, PA.
- 2006 Instructor, Laboratory Methods in Forensic Anthropology 2006. Seminar presented by Mercyhurst Archaeological Institute, Forensic Anthropology/Osteology Laboratory, Erie, PA.
- 2006 Instructor, Human Identification: Methods in Forensic Anthropology. Seminar presented by the Forensic Anthropology Center, Department of Anthropology, University of Tennessee, Knoxville, TN.
- 2005 Instructor, Laboratory Methods in Forensic Anthropology 2005. Seminar presented by Mercyhurst Archaeological Institute, Forensic Anthropology/Osteology Laboratory, Erie, PA.
- 2004 Instructor, Death Scene Archaeology 2004. Mercyhurst College, Erie, PA.
- 2002 Assistant Instructor, Death Scene Archaeology 2002. Mercyhurst College, Erie, PA.
- 2002 Assistant Instructor, Laboratory Methods in Forensic Anthropology 2002. Mercyhurst College, Erie, PA.
- 2001 Assistant Instructor, Crime Scene Archaeology. York Regional Police, Ontario, Canada.
  
- 2001 Student Assistant Instructor, Forensic Anthropology. Armed Forces Institute of Pathology (AFIP), Bethesda, Maryland.
- 2001 Assistant Instructor, Laboratory Methods in Forensic Anthropology 2001. Mercyhurst College, Erie, PA.
- 2001 Assistant Instructor, Death Scene Archaeology 2001. Mercyhurst College, Erie, PA.
- 2000 Assistant Instructor, Crime Scene Archaeology 2000. Federal Bureau of Investigation, St. Louis, MO.

**Conferences and Workshops Organized:**

- 2018 Macromorphoscopic (MMS) Traits: Data Collection and Analysis. Chair: JT Hefner. Proceedings of the American Academy of Forensic Sciences, Seattle, Washington. pp. 34-35.
- 2015 Forensic and Bioarchaeological Perspectives on Biological Distance. Chairs: MA. Pilloud and JT Hefner. Invited Poster Symposium at the American Association of Physical Anthropologists meeting, St. Louis, MO.
- 2015 Ancestry Estimation in the 21st Century, MK Spradley and JT Hefner. Proceedings of the American Academy of Forensic Sciences, Orlando, Florida. pp. 69-70.

**TEACHING****Graduate Students Supervised:**

<u>Student Name</u>	<u>Department</u>	<u>Role</u>	<u>Years</u>	<u>Outcome</u>
<u>PhD Candidates</u>				
Kelly Kamnikar	MSU Anthropology	Chair	2016-present	In Progress
Amber Plemons	MSU Anthropology	Chair	2016-present	In Progress
Micayla Spiros	MSU Anthropology	Chair	2018-present	In Progress
Rhian Dunn	MSU Anthropology	Chair	2019-present	In Progress
Elena Watson	MSU Anthropology	Member	2018-Present	In Progress
Jack Biggs	MSU Anthropology	Member	2015-Present	In Progress
Courtney Siegert	Texas State University	Member	2019-Present	In Progress
Mari Isa	MSU Anthropology	Member	2015-2020	Completed
Lisa Bright	MSU Anthropology	Member	2015-2020	Completed
Nicole Geske	MSU Anthropology	Member	2015-2019	Completed
Caitlin Vogelsberg	MSU Anthropology	Co-Chair	2015-2019	Completed
Julie Fleischman	MSU Anthropology	Member	2014-2017	Completed
Emily Streetman	MSU Anthropology	Member	2015-2017	Completed
Amy Michael	MSU Anthropology	Member	2015-2016	Completed
Jane Wankmiller	MSU Anthropology	Member	2014-2016	Completed
Erica Dziedzic	MSU Anthropology	Reader	2015-2016	Completed
Christopher Maier	University of Reno	Member	2013-2017	Completed
<u>MA Candidates</u>				
Chelsea Thompson	Central Washington	Member	2020-present	Inprogress
Elaina Watson	MSU Forensic Science	Co-Chair	2015-present	Completed
Maureen Moffitt	MSU Forensic Science	Chair	2015-2017	Completed
Julie Prince	California State University	Member	2014-2016	Completed
Felicia Wun	Texas State University	Member	2012-2014	Completed
Timothy Antinick	MSU Forensic Science	Member	2014-2015	Completed



**Courses:**

2014-Present Michigan State University, East Lansing, MI

- Human Osteology
- Advanced Quantitative Methods
- Hominid Fossils
- Introduction to Physical Anthropology
- Time, Space, and Change in Human Society (Integrative Studies in Social Science)

2007-2008 Mercyhurst College, Erie, PA

- Environmental Evidence
- Recovery of Physical Evidence
- Zooarchaeology
- Human Skeletal Biology I/II
- Forensic Archaeology
- Pathology of the Human Skeleton

2007-2008 University of Pittsburg, Titusville, PA

- Introduction to Physical Anthropology
- Introduction to Forensic Anthropology

2003-2005 University of Florida, Gainesville, FL

- Introduction to Cultural Anthropology (Teaching Assistant/Lecturer)
- Introduction to Forensic Science
- Human Osteology and Osteometry

**TRIAL TESTIMONY & DEPOSITIONS**

- 2018 Pretrial Evidentiary Testimony  
Cremation (*Hearing for The Estate of Muriel Elwell, DE # 2019-0000388063-DE*).  
Expert witness. Probate Court, Oakland County, Michigan. Cremation analysis.
- 2018 Criminal Court Testimony  
Homicide (*People v. Andrew Mack Johnson, Jr. Case #17-020019-FC*). Expert  
witness. Circuit Court Jury Trial, Eaton County, Michigan. Trauma analysis.

**PROFESSIONAL SERVICE**

- 2019-Present Michigan State University NAGPRA Advisory Committee, Member  
2018-Present Faculty Advisor: Graduate Students of Anthropology, Michigan State University  
2017-Present Journal of Anthropological Archaeology: Peer Reviewer

- 2017-Present PLOS One (PONE): Peer Reviewer
- 2016-Present *Forensic Anthropology* [Journal]: Founding Co-Editor, Editorial Board; Associate Editor
- 2015-2018 *American Board of Forensic Anthropology*: Board of Directors
- 2014-Present *NIST OSAC: Anthropology Sub-committee*: Member
- 2014-Present *Journal of Physical Anthropology*: Peer Reviewer
- 2014-Present *International Journal of Osteoarchaeology*: Peer Reviewer
- 2010-Present *Journal of Forensic Sciences*: Peer Reviewer
- 2012-Present PCOME Research Review Board: Member
- 2012-Present Diplomate – American Board of Forensic Anthropology (Cert. #91)
- 2011-Present *American Society of Crime Laboratory Directors/Accreditation Board*: Assessor
- 2011-Present *Register of Professional Archaeologists*: Member (Cert. #989390)
- 2010-2014 *Oak Ridge Institute for Science and Education (ORISE)*: Mentor
- 2006-2007 *Department of Human Biology, University of Indianapolis*: Senior Researcher
- 2005-2006 *Forensic Anthropology Center, University of Tennessee*: Associate Coordinator
- 2002-2007 *Osteology Laboratory, Mercyhurst College*: Research Associate
- 2003 *Homeland Security*: Founding Member

**HUMAN SKELETAL ANALYSIS**

- 2016 Macromorphoscopic Data Collection. Khon Kaen University, Khon Kaen, Thailand. *National Institute of Justice* (NIJ 2015-DN-BX-K012), data collection: KKU (n = 612).
- 2016 Macromorphoscopic Data Collection. Pima County Medical Examiner’s Office, Tucson, AZ. *National Institute of Justice* (NIJ 2015-DN-BX-K012), data collection: PCOME (n = 48).
- 2016 Macromorphoscopic Data Collection. Smithsonian Institution, Washington, DC. *National Institute of Justice* (NIJ 2015-DN-BX-K012), data collection: RJ Terry Collection (n = 212).
- 2015 Osteological Analysis of Human Remains Recovered from Graphic Center, Hagåtña, Guam. Client: Micronesian Archaeological Research Services, Inc.
- 2015 Archaeological Collections Management/Ethnicity Determination, Joint Region Marianas, Guam. NAVFAC Marianas. Contract No. N40192-14-M-5013.
- 2014 Joint POW/MIA Accounting Command-Central Identification Laboratory.
- 2009 US 60 data recovery project. Principal Investigator, Robert Wegener. Statistical Research, Inc.
- 2008 Joint Courts Complex (n = 1386), Alameda-Stone Cemetery, Tucson, Arizona. Statistical Research, Inc.
- 2008 Three-dimensional digital data collection, Northern Mexico and Southern Arizona. Smithsonian Institution, National Museum of Natural History, Repatriation Laboratory.
- 2007 Digital data collection; Native American groups. Smithsonian Institution, National Museum of Natural History, Repatriation Laboratory.
- 2006 Digital data collection; Native American groups. Smithsonian Institution, National Museum of Natural History, Repatriation Laboratory.

- 2005 Macromorphoscopic data collection protocol. Smithsonian Institution, National Museum of Natural History, Repatriation Laboratory.
- 2002 Pearson Village (33SA9)–Sandusky tradition burials (n = 546) ca. 1100 - 1550 AD–NAGPRA data collection for Ohio Historical Society. Osteology Laboratory, Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA.
- 2002 Castro de Chao Samartín. Castro Grandas de Salime. Auturias Campaña Arqueológica.
- 2001 Osteology Laboratory, Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA.
- 2001 Smithsonian Institution, National Museum of Natural History (10 Week internship).
- 2000 Shuey Site, NAGPRA evaluation; Osteology Laboratory, Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA.
- 1999 Stratton-Wallace Site, NAGPRA evaluation and analysis of ca. 180 individuals; Osteology Laboratory, Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA.

#### **FAUNAL ANALYSIS**

- 2007 Vietzen Faunal Collection; Mercyhurst Archaeological Institute, Mercyhurst College, Erie, PA
- 2001 Archaeological Resources Protection Act (ARPA). Rhonda L. Andrews Perishable, Erie, PA
- 2001 Numeria Town, Jordan. Early Bronze Age II–III. Rhonda L. Andrews Perishable, Erie, PA
- 2001 Sioux Village Site, Edward Jolie, University of Utah.
- 2000 Bab Edh-Dhra, Jordan; Rhonda L. Andrews Perishable, Erie, PA.

#### **MASS DISASTER RESPONSE**

- 2005 DMORT—Hurricane Katrina (*victim identification*)
- 2002 DMORT—World Trade Center (*victim identification*)
- 2001 DMORT—United Airlines Flight 93 (*victim identification*)

#### **ARCHAEOLOGICAL FIELD EXPERIENCE**

- 2013 Data recovery and field forensic review for Joint POW/MIA Accounting Command-Central Identification Laboratory. Conducted during Forensic Field Review Activity in Koror and Peleliu, Republic of Palau. Field Forensic review of material recovered by Japanese archaeologists and field assessment of in situ materials. Worked directly with American Ambassador to Palau, Helen P. Reed-Rowe. PI: Joseph T Hefner.
- 2012 Data recovery for Joint POW/MIA Accounting Command-Central Identification Laboratory. Case 0439 (Site VM-02365 and VM-02366) Conducted during Joint Field Activity in the vicinity of Dien Ngoc, Dien Ban District, Quang Nam Province, Socialist Republic of Vietnam. Large-scale excavation searching for three US service members killed during an ambush. PI: Joseph T Hefner.
- 2012 Joint Forensic Review for Joint POW/MIA Accounting Command-Central Identification Laboratory. Worked in Association with officials from Socialist Republic of Vietnam to repatriate remains recovered by JPAC-CIL teams working in Vietnam. PI: Joseph T.

- Hefner
- 2012 Joint Forensic Review for Joint POW/MIA Accounting Command-Central Identification Laboratory. Worked in Association with officials from Socialist Republic of Vietnam to repatriate remains recovered by JPAC-CIL teams working in Vietnam. PI: Joseph T. Hefner
- 2011 Data recovery for Joint POW/MIA Accounting Command-Central Identification Laboratory. Case 1185 (Site VM-02272) Conducted during Joint Field Activity in Vicinity of Gio My Township, Gio Linh District, Quang Tri Province, Socialist Republic of Vietnam. Large-scale excavation searching for one US service member killed in an accidental explosion within a bunker. PI: Joseph T Hefner.
- 2011 Data recovery for Joint POW/MIA Accounting Command-Central Identification Laboratory. Xepon District, Savannakhet Province, Lao People's Democratic Republic (11-3LA). Large-scale excavation of F-15 crash site searching for lost crew member. PI: Joseph T Hefner.
- 2008 Joint Courts Complex Data Recovery Project. Principal Investigator of Bioarchaeology. Burial excavation, analysis, and interpretation. Project PI: Terry Majewski.
- 2005 Erongaricuario, Michoacan, Mexico. Bioarchaeologist for Tarascan Phase site. Burial excavation, analysis, and interpretation. Field Director: David Haskell.
- 1998 Fort Polk, Phase I: Crew chief. Duties included assisting Field Directors in daily planning of survey of 1,500 acres, as well as supervision of four field technicians on their transects. TRC Garrow and Associates. Field Director: Ray Ezell.
- 1998 South Holston Lake, Phase I: A shoreline survey of the southern portion of Holston Lake. Duties included site mapping, photography, and determining eligibility for NRHP. TRC Garrow and Associates. Field Director: Lynn Peitak.
- 1998 Florence Mitigation, Phase III: Performed excavation of Early Archaic site in Alabama, including all profiling of a 50-meter trench. (Also performed duties as site mechanic). TRC Garrow and Associates. Field Director: Karl Fruedan.
- 1997 Virginia Pipeline, Phase I: A survey of the right-of-way for a pipeline. Shovel testing and mapping, as well as, drawing architectural features were the duties performed. TRC Garrow and Associates. Field Director: Tracy Millis.
- 1997 Spring Island, Phase III: Excavation of slave row on Spring Island. TRC Garrow and Associates. Field Director: Lynn Peitak.
- 1997 Wakefield Plantation, Phase III: Prehistoric, multi-component sites in North Carolina. Duties included excavation, profiling, mapping, and transit work. TRC Garrow and Associates. Field Director and Principle Investigator: Joel Gunn.
- 1997 Meridian Naval Station, Phase I - Surveyed and tested sites on Naval Station in Mississippi via shovel tests and transects. TRC Garrow and Associates. Field Director: Ray Ezell.
- 1997 Fort Stewart GA, Phase I - Survey and limited testing of sites on Fort Stewart Army base. Duties included shovel tests, plus site mapping and profiling of test units. Field Director: Virginia Markham.

- 1997 WCU Archaeology Lab - As lab student supervisor, duties included cataloging, washing, sorting, analysis, and preservation. Also dealt with organizing and supervising all student work-study. Lab Director: Jane Brown.
- 1997 Birdtown Bridge, Cherokee, Phase I Surveyed proposed area for installation of a bridge, and reported back to Dr. Anne Rogers on impact. Also helped in report preparation and with all lab work.
- 1996 Beaverdam Industrial Park, Phase I and II - Crew Chief - Survey of 600-acre tract via transects. Area contained both prehistoric and historic sites tested for eligibility. Duties included student supervision, mapping, photography, and coordination with field director in determination of scope of work. Field Director: Jane Brown.

**PROFESSIONAL MEMBERSHIP**

American Association for The Advancement of Science  
NIST-OSAC, Anthropology Subcommittee  
Register of Professional Archaeologists (not current)  
Sigma Xi

**FOREIGN LANGUAGE**

Quantitative Methods

*1-Sep-21*