

# ANTHROPOLOGY

## Wednesday

### Poster Session

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| 11:30 AM – 1:00 PM | <b>A1</b>  | <b>Increasing Access and Engagement at Academic Conferences: Comparing Modalities and Facilitating Interactions</b><br><i>Lisa Monetti, PhD, MSc*</i>                                                                                                                                                                                                                                                       |
| 11:30 AM – 1:00 PM | <b>A2</b>  | <b>Assessing Opportunities for Forensic Casework Experience for Students Through Educational Programs and Internships</b><br><i>Katherine M. Lane, MA*; Stephanie Fuehr, MA; Kelly C. McGehee, MA; John J. Schultz, PhD</i>                                                                                                                                                                                 |
| 11:30 AM – 1:00 PM | <b>A3</b>  | <b>How Contextual Information and Consideration of the Type of Bones Present Influence Interpretations of Identifiability</b><br><i>Andrea Palmiotto, PhD*; Allysha P. Winburn, PhD; Christine M. Pink, PhD</i>                                                                                                                                                                                             |
| 11:30 AM – 1:00 PM | <b>A4</b>  | <b>Mapping Barriers to Entry of Spanish-Speaking Students of Forensic Anthropology: Diversity in Academic Opportunities at United States Hispanic-Serving Institutions</b><br><i>Patricia N. Morales Lorenzo, BS*; Samantha H. Blatt, PhD; Juliette Bedard, BA; Bailey Bates; Trace Miles</i>                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A5</b>  | <b>Using Cause of Death and Skeletal Indicators of Health and Stress to Understand Structural Inequality</b><br><i>Allyson M. Simon, MS*; Tempest D. Mellendorf, MS; Colleen M. Cheverko, PhD; Melissa A. Clark, PhD; Mark Hubbe, PhD</i>                                                                                                                                                                   |
| 11:30 AM – 1:00 PM | <b>A6</b>  | <b>The Development of a Migrant Profile for Unidentified Human Remains Found Across Three Medicolegal Offices in Greece</b><br><i>Sophia Mavroudas, PhD*; Despoina E. Flouri, MD; Christina Karydi, MSc, BSc; Valeria M. Karakasi, MD; Konstantinos Moraitis, PhD; Pavlos Pavlidis, MD, PhD; Elena F. Kranioti, MD, PhD</i>                                                                                 |
| 11:30 AM – 1:00 PM | <b>A7</b>  | <b>The Development of a Multidisciplinary, Minimally Invasive Approach for the Forensic Examination of Skulls</b><br><i>Ayusha Dahal*; Dennis McNevin, PhD; Denise Donlon, BSc, PhD; Stewart Fallon, PhD; Jodie Ward</i>                                                                                                                                                                                    |
| 11:30 AM – 1:00 PM | <b>A8</b>  | <b>An Investigation Into the Facial Dimensions of a North Indian Population: Implications in Facial Identification</b><br><i>Ankita Guleria, MSc*; Kewal Krishan, PhD; Vishal Sharma, PhD</i>                                                                                                                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A9</b>  | <b>The Identification of Fragmented Cranial Remains Exhumed From a Site Adjoining the Ajnala Site: A Forensic Anthropological Case Report</b><br><i>Jagmahender Singh Sehrawat, PhD*; Niraj Rai, PhD</i>                                                                                                                                                                                                    |
| 11:30 AM – 1:00 PM | <b>A10</b> | <b>Forensic Investigations on a Skull Found Inside a Roman Villa in the City of Diamante, Italy</b><br><i>Elena Varotto, PhD; Francesco Maria Galassi; Saverio Gualtieri, MD; Lucia Tarda, MD; Matteo Antonio A. Sacco, MD*; Angelica Zibetti, MD; Umberto Rosini, MD; Alessandro Pasquale Tarallo, MD*; Vincenzo Maria Ritorto, MD; Maria Cristina Verrina, MD*; Luca Calanna, MD; Wandamaria Mazzuca*</i> |
| 11:30 AM – 1:00 PM | <b>A11</b> | <b>Skeletal Indicators of Down Syndrome: A Case Study in Forensic Anthropology</b><br><i>Theresa M. De Cree, MS, BA; Ivanna Robledo, MA*; Emily Brooks, MS</i>                                                                                                                                                                                                                                              |

# ANTHROPOLOGY

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| 11:30 AM – 1:00 PM | <b>A12</b> | <b>The Characteristics of a Vertebroplasty in Human Skeletal Remains</b><br><i>Nicholas V. Passalacqua, PhD*</i> ; <i>Rebecca L. George, PhD</i> ; <i>Emma F. Taylor</i> ; <i>Nuwan Perara</i> ; <i>Erin Chapman, PhD</i>                                                                                                                            |
| 11:30 AM – 1:00 PM | <b>A13</b> | <b>An Unusual Case of Human Remains Found in an Urban Aqueduct</b><br><i>Stephanie Torres, MS*</i> ; <i>Ellen Fricano, PhD</i>                                                                                                                                                                                                                       |
| 11:30 AM – 1:00 PM | <b>A14</b> | <b>Understanding the Potential of Chemical Anthropology in Burned Human Remains</b><br><i>Calil I. Makhoul, MSc*</i> ; <i>Luís A.E. Batista de Carvalho</i> ; <i>David Gonçalves, PhD</i> ; <i>Eugénia Cunha, PhD</i>                                                                                                                                |
| 11:30 AM – 1:00 PM | <b>A15</b> | <b>Is It Scientifically Impossible to Burn Human Bodies to Ashes? Revisiting the 2014 Case of the 43 Missing Students From the Ayotzinapa Rural Teachers College in Guerrero, Mexico</b><br><i>Elayne J. Pope, PhD*</i> ; <i>Alison Galloway, PhD</i> ; <i>Chelsey A. Juarez, PhD</i> ; <i>James G. Quintiere, PhD</i> ; <i>Riccardo Torres, AAS</i> |
| 11:30 AM – 1:00 PM | <b>A16</b> | <b>An Evaluation of Commingled Remains Using Computational Methods to Reconstruct Dental MNI Based on Dental Wear</b><br><i>Melanie Need, BSc*</i> ; <i>Xenia Paula Kyriakou, PhD</i> ; <i>Tim Eckhardt, BSc</i>                                                                                                                                     |
| 11:30 AM – 1:00 PM | <b>A17</b> | <b>MNI, NIDS, Centroids: Additional Considerations for Individuating Commingled Remains Using Stable Isotope Ratios</b><br><i>Stephanie B. Hartley, MA*</i> ; <i>Lesley A. Chesson, MS</i> ; <i>Gregory E. Berg, PhD</i>                                                                                                                             |
| 11:30 AM – 1:00 PM | <b>A18</b> | <b>The Accuracy and Reliability of Visual Pair Matching Lower Limb Bones in a Commingled Skeletal Assemblage</b><br><i>Abigail K. Kindler, MA*</i> ; <i>Cortney N. Hulse, PhD</i> ; <i>Carrie LeGarde, MA</i>                                                                                                                                        |
| 11:30 AM – 1:00 PM | <b>A19</b> | <b>Assessing the Impact of Opioid Use on Human Clavicles Through Clinical Computed Tomography (CT): A Pilot Study</b><br><i>Randi M. Depp, MS*</i> ; <i>Reed A. Davis, PhD</i> ; <i>Evin Hessel, MS</i>                                                                                                                                              |
| 11:30 AM – 1:00 PM | <b>A20</b> | <b>An Evaluation and Integration of Disparate Classification Schemes for Interparietal Bones in the Human Crania</b><br><i>Rhian R. Dunn, MS*</i> ; <i>Holly Long, MS</i> ; <i>Melissa Clarkson, MDes, PhD</i> ; <i>Joe T. Hefner, PhD</i>                                                                                                           |
| 11:30 AM – 1:00 PM | <b>A21</b> | <b>Is Bone Speed of Sound Affected by the Molecular Composition of Infant Bone?</b><br><i>Miriam E. Soto Martinez, PhD*</i> ; <i>Jason M. Wiersema, PhD</i> ; <i>Christian Crowder, PhD</i> ; <i>Angela Bachim, MD</i>                                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A22</b> | <b>Laser Me This: Using Laser-induced Breakdown Spectroscopy to Detect Formalin in Human Remains</b><br><i>Morghana Montana Hogg, BS*</i> ; <i>Micki Besse, MS</i> ; <i>Savanna Agilar, MS</i> ; <i>Heather A. Walsh-Haney, PhD</i> ; <i>Jay Radtke, MD</i>                                                                                          |
| 11:30 AM – 1:00 PM | <b>A23</b> | <b>An Application of Dietary Isotopes to Estimate Temporal Context of Unidentified Human Remains in British Columbia, Canada</b><br><i>Damon C. Tarrant, BA*</i> ; <i>Laura Yazedjian, MSc, BA</i> ; <i>Michael Richards, PhD</i>                                                                                                                    |
| 11:30 AM – 1:00 PM | <b>A24</b> | <b>How Low Can You Go? A Lower Bound Limit for <math>\delta^{15}\text{N}</math> Values From Human Bone Collagen</b><br><i>Amanda N. Friend, PhD*</i> ; <i>Claire Maass, PhD</i> ; <i>Lesley A. Chesson, MS</i> ; <i>Gregory E. Berg, PhD</i>                                                                                                         |

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| 11:30 AM – 1:00 PM | <b>A25</b> | <b>Taphonomic Effects on the C:N Ratio and <math>\delta^{13}\text{C}</math> and <math>\delta^{15}\text{N}</math> Isotopes in Bone Collagen</b><br><i>Nicole Long*</i> ; Ann H. Ross, PhD; Ethan Hyland |
| 11:30 AM – 1:00 PM | <b>A26</b> | <b>Using Forensic Anthropological Landmarks to Optimize DNA Extractions From Post-Cranial Remains</b><br><i>Keith Biddle, MA, PhD*</i>                                                                 |
| 11:30 AM – 1:00 PM | <b>A27</b> | <b>Validation and Quality Control of 3D Coordinate Data From Human Crania for Forensic Casework</b><br><i>Amanda R. Hale, MA*</i> ; Rebecca J. Taylor, PhD                                             |
| 11:30 AM – 1:00 PM | <b>A28</b> | <b>A Multivariate Analysis and Evaluation of Classification of Human Skeletal Vertebrae for an Applied Context</b><br><i>Jolen Anya Minetz, MA*</i> ; Stephen Ousley, PhD                              |

## Thursday

### Poster Session

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| 11:30 AM – 1:00 PM | <b>A29</b> | <b>Investigating Applications of Forensic Fractography of Bone Over the Postmortem Interval</b><br><i>Carter A. Unger, BS*</i> ; Mariyam I. Isa, PhD                                                                  |
| 11:30 AM – 1:00 PM | <b>A30</b> | <b>Measuring Volatile Organic Compounds (VOCs) From Decomposing Human Tissue</b><br><i>Sheana S. Ramcharan, MS, BS*</i> ; Luis L. Cabo, MS; Jack D. Williams, PhD; Michael S. Foulk, PhD                              |
| 11:30 AM – 1:00 PM | <b>A31</b> | <b>Tracing PMI Through Bone Metabolomics With GC/MS and LC/MS/MS</b><br><i>Elisa Roggia, BS*</i> ; Luke William Gent, BSc, MRes; Andrea Bonicelli, PhD, MA; Noemi Procopio, PhD; Eugenio Alladio                      |
| 11:30 AM – 1:00 PM | <b>A32</b> | <b>Using Evidence of Microbial Modifications on the Postmortem to Narrow Down the Postmortem Interval</b><br><i>Caroline Rowe, PhD*</i>                                                                               |
| 11:30 AM – 1:00 PM | <b>A33</b> | <b>The Megyesi Total Body Score Method: Inter-Observer Agreement and Sources of Bias</b><br><i>Tempest D. Mellendorf, MS*</i> ; Madeline R. Leggiero; Allyson M. Simon, MS; Varun V. Tewari, BS, BA; Luis L. Cabo, MS |
| 11:30 AM – 1:00 PM | <b>A34</b> | <b>Using Artificial Intelligence: Deep Learning for Human Decomposition Staging</b><br><i>Anna-Maria Nau, BA*</i> ; Phillip Ditto, BA*; Audris Mockus, PhD; Dawnie W. Steadman, PhD                                   |
| 11:30 AM – 1:00 PM | <b>A35</b> | <b>Testing Decomposition Scoring Methods at FOREST in Cullowhee, North Carolina</b><br><i>Leilah Melerine*</i> ; Rebecca L. George, PhD; Nicholas V. Passalacqua, PhD                                                 |
| 11:30 AM – 1:00 PM | <b>A36</b> | <b>It's a Dry Heat: Testing Existing Postmortem Interval (PMI) Equations in Clark County, Nevada</b><br><i>Dayanira Lopez, MS*</i> ; Clairia Ralston, PhD; Jennifer F. Byrnes, PhD                                    |
| 11:30 AM – 1:00 PM | <b>A37</b> | <b>Postmortem Interval in the Pacific Northwest—King County, Washington</b><br><i>Kiana C. Miller, BS*</i> ; Andrew C. Seidel, PhD                                                                                    |
| 11:30 AM – 1:00 PM | <b>A38</b> | <b>A Drop in the Bucket: An Analysis of Southwest Florida Weather Station Variables to Inform Postmortem Interval</b><br><i>Savanna Agilar, MS*</i> ; Micki Besse, MS; Heather A. Walsh-Haney, PhD                    |

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| 11:30 AM – 1:00 PM | <b>A39</b> | <b>Under the Weather: A Report of Faunal Scavenger Activity During Major Weather Systems Within a Taphonomic Facility in Southwest Florida</b><br><i>Micki Besse, MS*; Savanna Agilar, MS; Heather A. Walsh-Haney, PhD</i>                                                                                                 |
| 11:30 AM – 1:00 PM | <b>A40</b> | <b>Exploring the Scavenging Behavior of Bobcats, <i>Lynx Rufus</i>, in the Middle Tennessee Area and Its Forensic Implications</b><br><i>Yangseung Jeong, PhD; Aaron Gatewood*</i>                                                                                                                                         |
| 11:30 AM – 1:00 PM | <b>A41</b> | <b>A Longitudinal Observation of Pattern and Trajectory of Packrat Scavenging Among a Cohort of Human Donors</b><br><i>Christiane I. Baigent, MSc*</i>                                                                                                                                                                     |
| 11:30 AM – 1:00 PM | <b>A42</b> | <b>Multiple Scavenging Agents: The Effect of Termite and Canine Scavenging on Forensic Cases in Northern Thailand</b><br><i>Sittiporn Ruengdit*; Sangob Sanit; Kwankamol Limsopatham</i>                                                                                                                                   |
| 11:30 AM – 1:00 PM | <b>A43</b> | <b>Soft Tissue Scavenging Patterns of Mice on Human Remains</b><br><i>Alexander J. Smith, BA*</i>                                                                                                                                                                                                                          |
| 11:30 AM – 1:00 PM | <b>A44</b> | <b>Corpse Concealment by Use of a Foundry Furnace: An Experimental Study on a Swine Carcass</b><br><i>Matteo D'Angiolillo, MD*; Ilaria Grasso, MD; Alessandro Bonsignore, MD, PhD; Francesca Frigiolini, MD; Francesco Ventura, MD, PhD; Camilla Tettamanti, MD, PhD</i>                                                   |
| 11:30 AM – 1:00 PM | <b>A45</b> | <b>Determining Forensic Significance: Pilot Observations of the Taphonomic Patterning of Greek-Orthodox Cemetery Inhumations in Cyprus</b><br><i>Samantha Cohen, MRes, BA*; Xenia Paula Kyriakou, PhD</i>                                                                                                                  |
| 11:30 AM – 1:00 PM | <b>A46</b> | <b>The Resilience of Cut Mark Characteristics: An Experimental Study on the Effect of Corrosive Chemicals</b><br><i>Maisy Jordan, MSc*; Matteo Borrini, PhD, MS*</i>                                                                                                                                                       |
| 11:30 AM – 1:00 PM | <b>A47</b> | <b>The Resilience of Cut Mark Characteristics: An Experimental Study on the Effect of Fire Exposure</b><br><i>Katie Griffiths, BSc, MSc; Matteo Borrini, PhD, MS*</i>                                                                                                                                                      |
| 11:30 AM – 1:00 PM | <b>A48</b> | <b>In Full or in Part: The Effect of Incomplete Remains on Trauma Analysis</b><br><i>Hailey Scacciaferro, BS*; Savanna Agilar, MS; Micki Besse, MS; Heather A. Walsh-Haney, PhD</i>                                                                                                                                        |
| 11:30 AM – 1:00 PM | <b>A49</b> | <b>A Case Presentation of Fractures to the Wrists and Hands in a Suicide and Homicide</b><br><i>Tuesday M. Frasier, MS*; Erin H. Kimmerle, PhD</i>                                                                                                                                                                         |
| 11:30 AM – 1:00 PM | <b>A50</b> | <b>Tibia Size and the Contribution to Variance in Fracture Outcomes</b><br><i>Angela L. Harden, PhD*; Kyra Stull, PhD; Yun-Seok Kang, PhD; Amanda M. Agnew, PhD</i>                                                                                                                                                        |
| 11:30 AM – 1:00 PM | <b>A51</b> | <b>An Analysis of Lower Extremity Fracture Patterning in Fatal Motor Vehicle Collisions</b><br><i>Lillian S. Antonelli, BS*; Jered B. Cornelison, PhD; Christine M. Pink, PhD</i>                                                                                                                                          |
| 11:30 AM – 1:00 PM | <b>A52</b> | <b>Establishing a Skeletal Atlas of Elder Abuse: An Examination of the Relationship Between Bone Density and Skeletal Fractures in Accidental Falls and Suspected Abuse</b><br><i>Emelia Jensen; Kaitlyn J. Fulp, MA; Jacob A. Harris, PhD; Jane E. Buikstra, PhD; Laura C. Fulginiti, PhD; Katelyn L. Bolhofner, PhD*</i> |
| 11:30 AM – 1:00 PM | <b>A53</b> | <b>Assessing Variability in Kerf Floor Shape Utilizing a Revised Set of Shape Categories</b><br><i>Meghan M. Gast, BS*; Alexis L. VanBaarle, MS; Ann L. Braverman; Heather M. Garvin, PhD</i>                                                                                                                              |

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| 11:30 AM – 1:00 PM | <b>A54</b> | <b>A Comparison of Fatal and Non-Fatal Postcranial Gunshot Wounds</b><br><i>Sam W. Coberly, PhD*</i>                                                                                                                           |
| 11:30 AM – 1:00 PM | <b>A55</b> | <b>The Patterning of Fracture Characteristics in Gunshot Wounds in Long Bones</b><br><i>Alexandra Semma Tamayo, MSc*; Laure Spake, PhD</i>                                                                                     |
| 11:30 AM – 1:00 PM | <b>A56</b> | <b>An Analysis of Bevel Angle in Gunshot Trauma to Long Bones</b><br><i>Devin L. Adcox, MA*; Ashley Kendell, PhD; Eric J. Bartelink, PhD</i>                                                                                   |
| 11:30 AM – 1:00 PM | <b>A57</b> | <b>A Comparison Between Full Metal Jacket and Hollow Point Projectile Effects on Bone</b><br><i>Joe Adserias-Garriga*; Roberto Escudero-Izquierdo</i>                                                                          |
| 11:30 AM – 1:00 PM | <b>A58</b> | <b>Antemortem Trauma and Trauma Reporting in the Texas State Donated Skeletal Collection</b><br><i>Theresa M. De Cree, MS, BA*; Emma M. Giacomello, MA; Katie Gerstner, MA; Elizabeth Moore, MA; Michelle D. Hamilton, PhD</i> |

## Thursday—Session I

### Achieving Justice for All: The Evolving Role of Forensic Anthropology

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| 8:30 AM – 8:45 AM   | <b>A59</b> | <b>Standards Development in Forensic Anthropology: Updates From the OSAC and ASB</b><br><i>Eric J. Bartelink, PhD*; Julie M. Fleischman, PhD; Wendy E.P. McQuade, PhD</i>                                                                                                          |
| 8:45 AM – 9:00 AM   | <b>A60</b> | <b>Assessing the Place and Feasibility of Activism and Advocacy in Forensic Anthropology</b><br><i>Sadie R. Friend, BS*</i>                                                                                                                                                        |
| 9:00 AM – 9:15 AM   | <b>A61</b> | <b>ForensicAnthroTok: The Depiction of Forensic Anthropology on TikTok</b><br><i>Donovan M. Adams, PhD*; C M. Trent, MA; Jasper K. Sharpless, BA</i>                                                                                                                               |
| 9:15 AM – 9:30 AM   | <b>A62</b> | <b>Forensic Anthropology and Structural Vulnerability in Casework</b><br><i>Jaymelee Kim, PhD*; Allysha P. Winburn, PhD</i>                                                                                                                                                        |
| 9:30 AM – 9:45 AM   | <b>A63</b> | <b>Justice for All Missing: The Mississippi Repository for Missing and Unidentified Persons</b><br><i>Jesse R. Goliath, PhD*; Jordan Lynton Cox, PhD; Elise J. Adams, BA</i>                                                                                                       |
| 9:45 AM – 10:00 AM  | <b>A64</b> | <b>The Cold Case Initiative: Bringing Cases Up to Current Investigative Standards</b><br><i>Erin H. Kimmerle, PhD*</i>                                                                                                                                                             |
| 10:00 AM – 10:15 AM | <b>A65</b> | <b>The East Marshall Street Well Project: Community-Driven Research to Restore Identity and Dignity</b><br><i>Tal Simmons, PhD*</i>                                                                                                                                                |
| 10:15 AM – 10:30 AM | <b>A66</b> | <b>Mapping Medicolegal Disparities and Indigenizing Harm Reduction Strategies for Missing and Murdered Indigenous Persons in Idaho</b><br><i>Juliette Bedard, BA*; Samantha H. Blatt, PhD; Patricia N. Morales Lorenzo, BS; Jake R. Shields, MS, BS; Trace Miles; Bailey Bates</i> |
| 10:30 AM – 10:45 AM |            | <b>BREAK</b>                                                                                                                                                                                                                                                                       |

# ANTHROPOLOGY

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## Personal Identification Through Imaging and Radiography

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| 10:45 AM – 11:00 AM | <b>A67</b> | <b>The Validity of Radiographic Comparisons: Preliminary Findings by Body Region</b><br><i>Jennifer F. Byrnes, PhD*</i> ; Timothy P. Gocha, PhD; Alan Farahani; Amanda Dolan;<br>Taylor M. Flaherty, MSc; Emma M. Giacomello, MA; Tessa M. Herbert, BS;<br>SaMoura Horsley, BA; Mariah E. Moe, BS, MA; Thomas J. Monticello; James R. Sernas |
| 11:00 AM – 11:15 AM | <b>A68</b> | <b>A Part-to-Part Comparative Analysis to Assess Intra-Individual Similarity and Inter-Level Distinctions for Personal Identification</b><br><i>Summer J. Decker, PhD*</i> ; Daniel W. Martin, MD; Zackery Beauchamp, MD; Guy Ruty, MBE;<br>Jonathan M. Ford, PhD, LLM                                                                       |
| 11:15 AM – 11:30 AM | <b>A69</b> | <b>Automated Comparative Chest Radiography Using Deep Neural Networks</b><br><i>Carolyn V. Isaac, PhD*</i> ; Redwan Sony, MSc; Clara J. Devota, BS, MA; Alexis L. VanBaarle, MS;<br>Todd Fenton, PhD, MA; Joe T. Hefner, PhD; Arun Ross, PhD                                                                                                 |
| 11:30 AM – 11:45 AM | <b>A70</b> | <b>Visual Comparisons of Frontal Sinus Radiographs: Documenting Accuracy and Exploring the Effects of Experience</b><br><i>Heather M. Garvin, PhD*</i> ; Jessica L. Campbell, PhD; Lauren Butaric, PhD                                                                                                                                       |
| 11:45 AM – 12:00 PM | <b>A71</b> | <b>Investigating Variation in Trabecular and Cortical Bone Structure Due to Mobility Impairment: A Natural Experiment in Reduced Loading</b><br><i>Devora S. Gleiber, MA*</i>                                                                                                                                                                |
| 12:00 PM – 1:15 PM  |            | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                 |

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## Advancements in Cranial Identification

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| 1:15 PM – 1:30 PM | <b>A72</b> | <b>Facial Photo-Anthropometry for the Exclusion of Candidates Under Non-Restrictive Photographic Conditions</b><br><i>Oscar Ibáñez Panizo, PhD*</i> ; Pilar Navarro, BSc; Valentino Lugli, BSc; Andrea Valsecchi, PhD;<br>María A. Guativonza; Verónica Martínez; Guillermo Ramírez; Rosario Guerra Martí;<br>Inmaculada Alemán, PhD                                                                                                                                 |
| 1:30 PM – 1:45 PM | <b>A73</b> | <b>Correlations of Facial Soft Tissue Thicknesses With Craniometric Dimensions to Improve Craniofacial Identification Estimates: Fact or Fiction?</b><br><i>Te Wai Pounamu Telen Hona, BBiomedSc*</i> ; Carl Stephan, PhD                                                                                                                                                                                                                                            |
| 1:45 PM – 2:00 PM | <b>A74</b> | <b>Facial Soft Tissue Thickness and the Positional Relationship of Hard and Soft Tissue in a United States Postmortem CT Sample, the New Mexico Decedent Image Database (NMDID)</b><br><i>Rosario Guerra Martí*</i> ; María A. Guativonza; Verónica Martínez; Guillermo Ramírez;<br>Oscar Ibáñez Panizo, PhD; Andrea Valsecchi, PhD; Enrique Bermejo, PhD;<br>Alejandro Manzanares; Antonio David Villegas, MSc, BS; Fernando Navarro, PhD<br>Inmaculada Alemán, PhD |
| 2:00 PM – 2:15 PM | <b>A75</b> | <b>The Latest Advancements in Craniofacial Superimposition Using Artificial Intelligence</b><br><i>Oscar Ibáñez Panizo, PhD*</i> ; Praxedes Martinez, MSc; Pilar Navarro, BSc; Valentino Lugli, BSc;<br>Andrea Valsecchi, PhD; Rosario Guerra Martí; María A. Guativonza; Verónica Martínez;<br>Guillermo Ramírez; Pablo Mesejo Santiago, PhD; Sergio Damas, PhD                                                                                                     |
| 2:15 PM – 2:30 PM |            | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

# ANTHROPOLOGY

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## Reconsidering Sex Estimation Methods

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| 2:30 PM – 2:45 PM | <b>A76</b> | <b>Sex Estimation Methods in Forensic Anthropology: Current Practice and Trends</b><br><i>Alexandra R. Klates, PhD*</i> ; <i>Kate M. Lesciotto, JD, PhD</i>                                                                  |
| 2:45 PM – 3:00 PM | <b>A77</b> | <b>A Test of the Applicability of Decision Trees for Sex Estimation Utilizing an Expanded Suite of Morphological Traits</b><br><i>Morgan J. Ferrell, MA*</i> ; <i>John J. Schultz, PhD</i> ; <i>Donovan M. Adams, PhD</i>    |
| 3:00 PM – 3:15 PM | <b>A78</b> | <b>An Exploration of the Subadult Pelvic Sex Estimation Method Using Pelvic Metrics and Geometric Morphometrics</b><br><i>Leah E. Auchter, MA*</i> ; <i>Kyra Stull, PhD</i> ; <i>Heather M. Garvin, PhD</i>                  |
| 3:15 PM – 3:30 PM | <b>A79</b> | <b>Sex Estimation From Mandibular Morphometry Using a Discriminant Analysis–CT Scan-Based Retrospective Study</b><br><i>Siddhartha Das, MBBS, MD*</i>                                                                        |
| 3:30 PM – 3:45 PM | <b>A80</b> | <b>Increasing Transparency in Sex Estimation From the Skull by Monitoring Variation in Decision-Making Patterns</b><br><i>Nicole Mantl, MSc, MPhil*</i> ; <i>Sherry Nakhaeizadeh, PhD</i> ; <i>Ruth M. Morgan, MA, DPhil</i> |
| 3:45 PM – 4:00 PM | <b>A81</b> | <b>Combining Metric and Morphological Traits for Sex Estimation: A Pilot Study Using the Innominate</b><br><i>Kate M. Lesciotto, JD, PhD*</i> ; <i>Alexandra R. Klates, PhD</i> ; <i>Michael Price</i>                       |
| 4:00 PM – 4:15 PM |            | <b>BREAK</b>                                                                                                                                                                                                                 |

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## Bone Chemistry and Isotopes

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| 4:15 PM – 4:30 PM | <b>A82</b> | <b>The Impact of Chemical Maceration on Elemental Concentrations and <math>^{87}\text{Sr}/^{86}\text{Sr}</math> Values in Bone</b><br><i>Julianne J. Sarancha, MS*</i> ; <i>Gwyneth Gordon, PhD</i>                                                                                               |
| 4:30 PM – 4:45 PM | <b>A83</b> | <b>The Use of Multi-Isotopes for Geoprofiling Unidentified Decedents to Assist Law Enforcement Agencies in the United States</b><br><i>Liotta N. Dowdy, BS, MA*</i> ; <i>Gennifer M. Goad, BA, MA</i> ; <i>Anthony Menicucci, PhD</i> ; <i>George Kamenov, PhD</i> ; <i>Erin H. Kimmerle, PhD</i> |
| 4:45 PM – 5:00 PM | <b>A84</b> | <b>Origins and Isoscapes: A Reassessment of Oxygen and Strontium Isotopic Data for Human Identifications in North America</b><br><i>Kirsten A. Verostick, PhD*</i> ; <i>Chris Stantis</i> ; <i>Alejandro Serna, PhD</i> ; <i>Gabriel Bowen, PhD</i>                                               |
| 5:00 PM – 5:15 PM | <b>A85</b> | <b>Isotopic Taphonomy: A Critical Review of the Effects of Diagenesis on Human Tissues Used for Stable Isotope Analysis</b><br><i>Shelby Hard, BA*</i>                                                                                                                                            |
| 5:15 PM – 5:30 PM | <b>A86</b> | <b>The Impacts of Chronic Opioid Exposure on Bone Biomechanical Parameters</b><br><i>Sydney Q. Chizmeshya, BA*</i> ; <i>Janna M. Andronowski, PhD</i>                                                                                                                                             |



# ANTHROPOLOGY

## Thursday—Session II

### The Right to the Truth I: Analysis of Commingled Remains for Conflict Resolution in Humanitarian Forensics

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|-------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:00 PM – 1:15 PM | <b>A87</b> | <b>The Right to the Truth: A Multimodal Investigation of Mass Graves and an Analysis of Commingled Remains for Conflict Resolution in Humanitarian Forensics</b><br><i>Xenia Paula Kyriakou, PhD*</i> ; <i>Nicholas V. Passalacqua, PhD</i> ; <i>Matthieu Baudelet, PhD</i>                                                    |
| 1:15 PM – 1:30 PM | <b>A88</b> | <b>The Use of Computational Methods in Assessing Legacy Databases of Commingled Remains and Reconstructing Stratigraphic Relationships</b><br><i>Chris Mavromatis, PhD*</i> ; <i>Xenia Paula Kyriakou, PhD</i>                                                                                                                 |
| 1:30 PM – 1:45 PM | <b>A89</b> | <b>A Case From “EL TUBO”: An Analysis of Commingled and Highly Fragmented Skeletal Remains Recovered From an Abandoned Water Exploration Well in Northeastern Mexico</b><br><i>Nicole Lambacher*</i> ; <i>Caterina Raffone</i> ; <i>Benito Ramos-González</i> ; <i>Sandra Sostaric</i> ; <i>Francisco Etxeberria Gabilondo</i> |
| 1:45 PM – 2:00 PM | <b>A90</b> | <b>The Reassociation of Disparate Elements at a Human Decomposition Facility</b><br><i>Rebecca L. George, PhD*</i> ; <i>Reagan Baechle, BS</i> ; <i>Autumn J. Hall</i>                                                                                                                                                         |
| 2:00 PM – 2:15 PM | <b>A91</b> | <b>De-Commingling the Past—When an Attempt to Resolve Misidentifications Results in Setbacks: The Tihovici Case</b><br><i>Sandra Sostaric*</i> ; <i>Bojana Tomasevic</i> ; <i>Samra Terzic</i> ; <i>Almir Olovicic</i> ; <i>Beisa Talic</i>                                                                                    |
| 2:15 PM – 2:30 PM | <b>A92</b> | <b>Matching Antimeres: Prospects and Limitations of Statistical Methods for the Reassociation of Commingled Left and Right Humeri</b><br><i>Erica Baer, PhD, MS*</i> ; <i>Xenia Paula Kyriakou, PhD</i>                                                                                                                        |
| 2:30 PM – 2:45 PM | <b>A93</b> | <b>The Chemical Reassociation of Commingled Remains Via Laser-Induced Breakdown Spectroscopy</b><br><i>Kristen Livingston, BS*</i> ; <i>Katie Zejdlik, PhD</i> ; <i>Jonathan Bethard, PhD</i> ; <i>Matthieu Baudelet, PhD</i>                                                                                                  |
| 2:45 PM – 3:00 PM | <b>A94</b> | <b>Don’t Forget About ME: How Material Evidence Can Inform (or Complicate) Commingling From the Battle of Tarawa</b><br><i>Allison M. Campo, MA*</i> ; <i>Rylan Tegtmeyer Hawke, PhD</i>                                                                                                                                       |
| 3:00 PM – 3:15 PM |            | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                   |

### The Right to the Truth II: Multimodal Investigation of Mass Graves and Clandestine Burials

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|-------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3:15 PM – 3:30 PM | <b>A95</b> | <b>Preliminary Longitudinal GPR Data on an Experimental Secondary Mass Grave at the ARISTA Forensic Taphonomy Facility</b><br><i>Coen Nienaber, MA, BA*</i> ; <i>Xenia Paula Kyriakou, PhD</i>                                                                                                                                                                                                          |
| 3:30 PM – 3:45 PM | <b>A96</b> | <b>The Dirt on DNA: Utilizing Soil as Evidence of Clandestine Burials and Mass Graves</b><br><i>Meradeth H. Snow, PhD*</i>                                                                                                                                                                                                                                                                              |
| 3:45 PM – 4:00 PM | <b>A97</b> | <b>The Multidisciplinary Resolution of American Military Casualties From the Korean War</b><br><i>Julie Evo, MS*</i> ; <i>Veronica A. Keyes, MD</i> ; <i>Matthew C. Go, PhD</i> ; <i>Esther H. Choo, MS, BA</i> ; <i>Paulina Dominguez Acosta, MA</i> ; <i>Krystal Estrada, MSc</i> ; <i>Amanda N. Friend, PhD</i> ; <i>Amanda R. Hale, MA</i> ; <i>Reshma Satish, MS</i> ; <i>Melissa Menschel, MS</i> |



# ANTHROPOLOGY

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|-------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4:00 PM – 4:15 PM | <b>A98</b> | <b>The Role of Starvation in the Underestimation of Living Stature From Skeletal Remains</b><br><i>Maryann Hobbs*</i> ; <i>Rylan Tegtmeyer Hawke, PhD</i> |
| 4:15 PM – 4:30 PM | <b>A99</b> | <b>Mass Graves: An Analysis of Injuries and Causes of Death</b><br><i>Nermin Sarajlic, MD, PhD*</i>                                                       |
| 4:30 PM – 5:00 PM |            | <b>QUESTIONS AND ANSWERS</b>                                                                                                                              |

## Friday

### Poster Session

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| 11:30 AM – 1:00 PM | <b>A100</b> | <b>Substance Misuse, Stress, and Sternal Rib End Morphology: Implications for Forensic Age Estimation</b><br><i>Christine M. Pink, PhD*</i>                                                                                                                                          |
| 11:30 AM – 1:00 PM | <b>A101</b> | <b>Aging Increases Regional Variation in the Pore Morphometry of Human Ribs</b><br><i>Mary E. Cole, PhD*</i> ; <i>Yun-Seok Kang, PhD</i> ; <i>Amanda M. Agnew, PhD</i>                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A102</b> | <b>Testing a Novel Method for Estimating Adult Age at Death From the First Rib in Forensic Casework</b><br><i>Amy Joy Spies, PhD*</i> ; <i>Kaitlyn J. Fulp, MA</i> ; <i>Laura C. Fulginiti, PhD</i>                                                                                  |
| 11:30 AM – 1:00 PM | <b>A103</b> | <b>The Utility of Deciduous Dental Microstructures in Forensic Anthropology</b><br><i>Marin Pilloud, PhD*</i> ; <i>Christopher Aris, PhD</i> ; <i>Emily Smith, MA</i>                                                                                                                |
| 11:30 AM – 1:00 PM | <b>A104</b> | <b>Dental Age Estimator Performance Relative to Weighted Kappa: A Simulation Study</b><br><i>Valerie Sgheiza, MA, MS*</i> ; <i>Helen M. Liversidge</i>                                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A105</b> | <b>Estimating Age in Adults Using Measurements of Dental Radiographs: A Validation of the Kvall Method</b><br><i>Katherine Skorpinski, MA*</i> ; <i>Laura E. Cirillo, PhD</i>                                                                                                        |
| 11:30 AM – 1:00 PM | <b>A106</b> | <b>Innominate Weight Over the Lifespan: A Method for Estimating Age From the Pelvis</b><br><i>Andrea M. Zurek-Ost, PhD*</i> ; <i>Mark Sorensen, PhD</i>                                                                                                                              |
| 11:30 AM – 1:00 PM | <b>A107</b> | <b>An Age-at-Death Estimation From Pubic Bone Mineral Density on Postmortem CTs</b><br><i>Eulalie Pefferkorn*</i> ; <i>Fabrice Dedouit, MD, PhD</i> ; <i>Agathe Bascou, MD</i> ; <i>Pauline Saint Martin, PhD</i> ; <i>Norbert Telmon, MD, PhD</i> ; <i>Frederic Savall, MD, PhD</i> |
| 11:30 AM – 1:00 PM | <b>A108</b> | <b>Decoding Age-at-Death With DNA Methyloomics: A Cutting-Edge Approach for Forensic Analysis of Skeletal Remains</b><br><i>Luke William Gent, BSc*</i> ; <i>Noemi Procopio, PhD</i> ; <i>Edward Schwalbe</i>                                                                        |
| 11:30 AM – 1:00 PM | <b>A109</b> | <b>Intra-Skeletal Variation in Lower Limb Microstructure for Histological Age Estimation</b><br><i>Victoria M. Dominguez, PhD*</i> ; <i>Bailey A.G. Colohan</i>                                                                                                                      |
| 11:30 AM – 1:00 PM | <b>A110</b> | <b>Introducing OA-TA: A New Tool for Adult Age-at-Death Estimation Using Osteoarthritis of the Synovial Joints</b><br><i>Michala K. Stock, PhD*</i> ; <i>Ariana N. Strasheim, MA, BA</i> ; <i>Allysha P. Winburn, PhD</i>                                                            |

# ANTHROPOLOGY

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| 11:30 AM – 1:00 PM | <b>A111</b> | <b>Validating Population Affinity Method Platforms for Macromorphoscopic Traits in Specific 20th-Century Contexts</b><br><i>Cortney N. Hulse, PhD*</i> ; <i>Amanda N. Friend, PhD</i> ; <i>Amanda R. Hale, MA</i> ; <i>Abigail K. Kindler, MA</i> ; <i>Rebecca J. Taylor, PhD</i>                                                                            |
| 11:30 AM – 1:00 PM | <b>A112</b> | <b>A Comparison of Ancestry-Specific Versus Ancestry-Independent Stature Estimation</b><br><i>Rylan Tegtmeier Hawke, PhD*</i> ; <i>Laura E. Cirillo, PhD</i> ; <i>Katie Whitmore, PhD</i> ; <i>Lara E. McCormick, PhD</i> ; <i>Abigail Kindler, MA</i> ; <i>Emily S. Tarbet Hust, MA</i>                                                                     |
| 11:30 AM – 1:00 PM | <b>A113</b> | <b>Evaluating the Prevalence of Torus Mandibularis and Torus Palatinus in Relation to Ancestry, Sex, and Age in a Modern Skeletal Sample</b><br><i>Alex F. Wong, MS, BA*</i> ; <i>Amandine Eriksen, PhD</i> ; <i>Stephen Nawrocki, PhD</i>                                                                                                                   |
| 11:30 AM – 1:00 PM | <b>A114</b> | <b>How Do Agencies Use Biological Profile Data? A Pilot Study Investigating Stakeholder Engagement With Forensic Anthropological Estimates</b><br><i>Samantha M. McCrane, PhD*</i> ; <i>Allysha P. Winburn, PhD</i> ; <i>Amanda N. Friend, PhD</i>                                                                                                           |
| 11:30 AM – 1:00 PM | <b>A115</b> | <b>Assessing the Reliability of the DSP2 Software for Skeletal Sex Assessment in a Modern Italian Reference Collection From Syracuse, Sicily</b><br><i>Henrietta Vita*</i> ; <i>Constantine Eliopoulos, PhD</i> ; <i>Matteo Borrini, PhD, MS*</i>                                                                                                            |
| 11:30 AM – 1:00 PM | <b>A116</b> | <b>Sex Estimation of Modern Greek-Cypriots Utilizing Measurements of the Calcaneus and Talus</b><br><i>Anelis Diaz, MA, BS*</i> ; <i>Georgia Hennessy*</i> ; <i>Erica Baer, PhD, MS</i> ; <i>Xenia Paula Kyriakou, PhD</i>                                                                                                                                   |
| 11:30 AM – 1:00 PM | <b>A117</b> | <b>Sexual Dimorphism in the Human Mandible: The Application of 3D Statistical Shape Modeling</b><br><i>Yu-Young Kim, MS*</i> ; <i>Kang-Woo Lee, PhD</i> ; <i>Kyung-Seok Hu, DDS, PhD</i>                                                                                                                                                                     |
| 11:30 AM – 1:00 PM | <b>A118</b> | <b>The Ontogenetic Development of the Preauricular Sulcus and Its Utility in Estimating Sex in Children and Young Adults With Considerations for Pregnancy and Parturition</b><br><i>Stephanie J. Cole, PhD*</i> ; <i>Marin Pilloud, PhD</i> ; <i>Kyra Stull, PhD</i>                                                                                        |
| 11:30 AM – 1:00 PM | <b>A119</b> | <b>The Utility of the Maxillary Sinus in Estimating Biological Sex in a Modern American Population</b><br><i>Abigail Elaine Houkes, MA*</i>                                                                                                                                                                                                                  |
| 11:30 AM – 1:00 PM | <b>A120</b> | <b>Translating Results: Accessing Accuracy Within Sex Estimation Methods From the Biological Profile</b><br><i>McKenzie Macon, BAS*</i> ; <i>Cris E. Hughes, PhD</i>                                                                                                                                                                                         |
| 11:30 AM – 1:00 PM | <b>A121</b> | <b>Creating Continuity: The Proper Handling of Unprovenanced, and Unidentified, Legacy Forensic Cases and Prevention of Future Mishandling</b><br><i>Chelsey A. Juarez, PhD*</i> ; <i>Alison Galloway, PhD</i>                                                                                                                                               |
| 11:30 AM – 1:00 PM | <b>A122</b> | <b>Identification Trends in Forensic Anthropology Cases at the New Mexico Office of the Medical Investigator</b><br><i>Nicollette S. Appel, MS*</i> ; <i>Cris E. Hughes, PhD</i> ; <i>Paige Lynch, MS</i>                                                                                                                                                    |
| 11:30 AM – 1:00 PM | <b>A123</b> | <b>Forensic Anthropology Casework and Outreach: 50 Years of Operational Trends for Chico State's Human Identification Laboratory</b><br><i>Colleen Milligan, PhD*</i> ; <i>Eric J. Bartelink, PhD</i> ; <i>Shannon Clinkinbeard, MA</i> ; <i>Cheyenne D. Collins, MA</i> ; <i>Ashley Kendell, PhD</i> ; <i>Taylor Lambrigger, MA</i> ; <i>P. Willey, PhD</i> |
| 11:30 AM – 1:00 PM | <b>A124</b> | <b>The Evolution of Forensic Anthropological Casework: Exemplifying the Importance of Routine Reanalysis of Long-Term Unidentified Remains at the Forensic Anthropology Center at Texas State (FACTS)</b><br><i>Emilie Wiedenmeyer, MA*</i> ; <i>Theresa M. De Cree, MS, BA</i> ; <i>Michelle D. Hamilton, PhD</i>                                           |

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# ANTHROPOLOGY

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| 11:30 AM – 1:00 PM | <b>A125</b> | <b>A Comparison of Forensic Anthropology Casework Across Two Urban, Midwest Medical Examiner Offices, 2013–2021</b><br><i>Erin B. Waxenbaum, PhD*</i> ; <i>Lindsay H. Trammell, PhD</i> ; <i>Anne Grauer, PhD</i>                                                                                                                                                                 |
| 11:30 AM – 1:00 PM | <b>A126</b> | <b>Introducing the Forensic Science Research and Training Laboratory (FSRTL), a New Forensic Anthropology Research Facility at George Mason University</b><br><i>An-Di Yim, PhD*</i> ; <i>Emily D. Rancourt, MS</i> ; <i>Joseph A. DiZinno, DDS</i> ; <i>Brian Eckenrode, PhD</i> ; <i>Kimberly Rule, MS</i> ; <i>Christopher Durac, MS, BS</i> ; <i>Mary E. O'Toole, PhD, MA</i> |
| 11:30 AM – 1:00 PM | <b>A127</b> | <b>Stakeholder Perspectives and End-of-Life Planning: The Future for Body Farms, Donation Programs, and Student Development</b><br><i>Natalie S. Wise, BA*</i> ; <i>Erin H. Kimmerle, PhD</i>                                                                                                                                                                                     |
| 11:30 AM – 1:00 PM | <b>A128</b> | <b>The Forensic Taphonomy Education and Research Facility: An Interdisciplinary Educational and Professional Resource</b><br><i>Sophia I. Reck, MA*</i> ; <i>Ginesse A. Listi, PhD</i>                                                                                                                                                                                            |
| 11:30 AM – 1:00 PM | <b>A129</b> | <b>WITHDRAWN</b>                                                                                                                                                                                                                                                                                                                                                                  |

## Rexamining the Biological Profile

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| 8:45 AM – 9:00 AM   | <b>A130</b> | <b>Considerations for Age Estimation Accuracy: Method-Derived Outcomes and Practitioner Interpretations</b><br><i>Cris E. Hughes, PhD*</i> ; <i>Chelsey A. Juarez, PhD</i> ; <i>An-Di Yim, PhD</i>                                                                                                         |
| 9:00 AM – 9:15 AM   | <b>A131</b> | <b>A Regression-Based Machine Learning Framework for Adult Skeletal Age Estimation</b><br><i>Eugenia Cunha, PhD*</i> ; <i>David Navega, PhD</i>                                                                                                                                                            |
| 9:15 AM – 9:30 AM   | <b>A132</b> | <b>Cranial Masculinization: How Age Progression Affects the Accuracy of Sex Estimations in Adults</b><br><i>Lyndsey Hornagold*</i> ; <i>Samantha Shipley, MS*</i> ; <i>Erin H. Kimmerle, PhD</i>                                                                                                           |
| 9:30 AM – 9:45 AM   | <b>A133</b> | <b>Unaccompanied Minors Automatic Forensic Age Estimation (UMAFAE): Applying Artificial Intelligence-Based Methods to Estimate Legal Age in Undocumented Minors</b><br><i>Stefano De Luca*</i> ; <i>Javier Venema Rodríguez, MSc</i> ; <i>Pablo Mesejo Santiago, PhD</i> ; <i>Oscar Ibáñez Panizo, PhD</i> |
| 9:45 AM – 10:00 AM  | <b>A134</b> | <b>Macroscopic Differences in Adult Human Femora Are Linked to Body Mass Index</b><br><i>Daniel Wescott, PhD*</i> ; <i>Elaine Y. Chu, MA</i> ; <i>Adam D. Sylvester, PhD</i> ; <i>Wojciech Zbijewski</i> ; <i>Gengxin Shi</i> ; <i>Lauren A. Meckel, PhD</i> ; <i>Deborah L. Cunningham, PhD</i>           |
| 10:00 AM – 10:15 AM | <b>A135</b> | <b>A Critical Validation of Dental Morphology as a Method of Ancestry Estimation in a Historical Forensic Context</b><br><i>Laura E. Cirillo, PhD*</i> ; <i>Rylan Tegtmeyer Hawke, PhD</i> ; <i>Rebecca J. Taylor, PhD</i>                                                                                 |
| 10:15 AM – 10:30 AM |             | <b>BREAK</b>                                                                                                                                                                                                                                                                                               |

# ANTHROPOLOGY

## PMI and Taphonomy

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| 10:30 AM – 10:45 AM | <b>A136</b> | <b>. . . and There Were Only Teeth: Postmortem Interval Estimation Based on XRD and FTIR</b><br><i>Sara C. Zapico, PhD*</i> ; <i>Juan Suárez, PhD</i> ; <i>Stella Martín de las Heras, MD, PhD</i> ;<br><i>Leticia Rubio, MD, PhD</i>                                                                                                                        |
| 10:45 AM – 11:00 AM | <b>A137</b> | <b>geoFOR: A Forensic Taphonomy Database for PMI Estimation Using a Machine Learning Model</b><br><i>Katherine E. Weisensee, PhD*</i> ; <i>Madeline Atwell, PhD</i> ; <i>Cristina I. Tica, PhD</i> ; <i>Carl Ehrett, PhD, BS</i> ;<br><i>Dane Smith, PhD</i> ; <i>Patricia Carbajales-Dale, MS, Beng</i> ; <i>Patrick J. Claflin</i> ; <i>Noah A. Nisbet</i> |
| 11:00 AM – 11:15 AM | <b>A138</b> | <b>Skeletal Element Recovery Rates From Outdoor Surface Contexts in Louisiana</b><br><i>Ginesse A. Listi, PhD*</i>                                                                                                                                                                                                                                           |
| 11:15 AM – 11:30 AM | <b>A139</b> | <b>Small but Mighty: A Controlled Observation of Magpie Scavenging Among a Cohort of Human Remains in the Rocky Mountain Region of Colorado</b><br><i>Christiane I. Baigent, MSc*</i>                                                                                                                                                                        |
| 11:30 AM – 11:45 AM | <b>A140</b> | <b>The Scavenging and Scattering of Remains: An Experiment to Inform Forensic Practice</b><br><i>Lara Indra, MSc*</i> ; <i>Valentin Moser, MSc</i> ; <i>Marco Milella, PhD</i> ; <i>Sandra Lösch, PhD</i>                                                                                                                                                    |
| 11:45 AM – 12:00 PM | <b>A141</b> | <b>The Fluvial Transport of Human Remains: Forensic Application of a HEC-RAS Model for Predicting Search Parameters for Human Remains Recovered From the Sacramento River, California</b><br><i>Eric J. Bartelink, PhD*</i> ; <i>Colleen Milligan, PhD</i> ; <i>Steffen Mehl, PhD</i> ; <i>Erik Fintel, BA</i>                                               |
| 12:00 PM – 1:15 PM  |             | <b>BREAK</b>                                                                                                                                                                                                                                                                                                                                                 |

## Trauma Assessment and Application

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|-------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:15 PM – 1:30 PM | <b>A142</b> | <b>Standards for Analyzing Skeletal Trauma in Forensic Anthropology</b><br><i>Donna C. Boyd, PhD*</i> ; <i>Julie M. Fleischman, PhD</i> ; <i>Carolyn V. Isaac, PhD</i> ; <i>Jade S. De La Paz, PhD</i>                                                                 |
| 1:30 PM – 1:45 PM | <b>A143</b> | <b>The Use of Outline Analyses to Assess Kerf Floor Shape Patterns in Saw Marks</b><br><i>Alexis L. VanBaarle, MS*</i>                                                                                                                                                 |
| 1:45 PM – 2:00 PM | <b>A144</b> | <b>Deep Learning Models for Fracture Detection and Segmentation in Bone Histology</b><br><i>Carolyn V. Isaac, PhD*</i> ; <i>Redwan Sony, MSc</i> ; <i>Clara J. Devota, BS, MA</i> ; <i>Alexis L. VanBaarle, MS</i> ;<br><i>Arun Ross, PhD</i>                          |
| 2:00 PM – 2:15 PM | <b>A145</b> | <b>Unexpected Antemortem and Perimortem Rib Fractures in Infants Without Other Significant Injuries</b><br><i>Erin Chapman, PhD*</i> ; <i>Katherine Maloney, MD</i> ; <i>Tara Mahar, MD</i>                                                                            |
| 2:15 PM – 2:30 PM | <b>A146</b> | <b>Whole Body Fracture Patterns From Blunt Force Trauma Vary Within Similar Experimental Loading Events</b><br><i>Amanda M. Agnew, PhD*</i> ; <i>Angela L. Harden, PhD</i> ; <i>Yun-Seok Kang, PhD</i> ; <i>John H. Bolte, PhD, MSc</i>                                |
| 2:30 PM – 2:45 PM | <b>A147</b> | <b>Structural Violence in Orleans Parish, Louisiana: Implications for Forensic Anthropological Casework</b><br><i>Krista E. Bennett, MA*</i> ; <i>Sophia I. Reck, MA</i> ; <i>Ginesse A. Listi, PhD</i> ; <i>Emily F. Michon, MA</i> ;<br><i>Teresa V. Wilson, PhD</i> |

# ANTHROPOLOGY

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2:45 PM – 3:00 PM      **A148**      **Skeletal Trauma in Suicide Cases (2017–2018) in Puerto Rico After Hurricane Maria**  
*Gabriela I. Rios Santiago, MS\**; *Maria Teresa Ferreira, PhD*; *Sofia N. Wasterlain, PhD*

3:00 PM – 3:15 PM      **BREAK**

## Human Rights and Global Perspectives in Forensic Anthropology

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3:15 PM – 3:30 PM      **A149**      **An Analysis and Reconstruction of Remains From a World War II Mass Grave in the Szpegowski Forest, Poland**  
*Joanna Wysocka, MSc\**; *Dawid Kobińska, PhD*

3:30 PM – 3:45 PM      **A150**      **The Latin American Association of Forensic Anthropology (ALAF): 20 Years of Development**  
*Luis Fondebrider, PhD\**

3:45 PM – 4:00 PM      **A151**      **Missing Persons in Argentina: The Age Progression Technique to Support Non-Profit Organizations in the Search for the Lost**  
*Laura Donato\**; *Luigi Tonino Marsella*; *Marcela Lerda*; *Michele Treglia*; *Rossana Cecchi, MD*

4:00 PM – 4:15 PM      **A152**      **The Role of Forensic Anthropology in Long-Term Missing Persons Cases in Scotland**  
*Catriona Davies, PhD, BSc\**; *Lucina Hackman, PhD*; *Helen Langstaff, PhD*; *Diana Swales, PhD*

4:15 PM – 4:30 PM      **A153**      **FORDISC® and AncesTrees: Limitations and Considerations for the Identification of Individuals From Central and South America**  
*Hannah G. Messersmith, BSc\**; *Julieta Gómez García-Donas, JD, PhD*

4:30 PM – 4:45 PM      **A154**      **The Forensic Border Coalition South Texas Cemetery Survey: Insights From a Forensic Science and Humanitarian Effort Addressing Unidentified Burials and Unidentified Remains**  
*Kate Spradley, PhD\**; *Christine M. Kovic, PhD*; *Mercedes Doretti*; *Robin C. Reineke, PhD*; *Molly Miranker, PhD*; *Molly A. Kaplan, MA*; *Rachel Daniell, PhD*

4:45 PM – 5:00 PM      **A155**      **Shifting Routes: Expanding Migrant Decedent Identification Efforts in Texas**  
*Molly A. Kaplan, MA\**; *Courtney C. Siegert, MA, PhD*; *Chloe P. McDanel, MA*; *Ivanna Robledo, MA*; *Kate Spradley, PhD*

5:00 PM – 5:15 PM      **A156**      **Necrosilence: GIS Visualizations of Migrant Mortality in South Texas, 2009–2020**  
*Molly Miranker, PhD\**; *Alberto Giordano, PhD*