

ANTHROPOLOGY

Wednesday

Poster Session

- 11:30 AM – 1:00 PM **A1** **The Applications of Confocal Laser Scanning Microscopy for Imaging Burned Remains**
*Shelby Garza, MA**
- 11:30 AM – 1:00 PM **A2** **A Test of Interrater Reliability Using the Refined Classification System for Thermally Damaged Human Remains by Body Segment**
Chelsey Juarez, PhD; Elayne Pope, PhD; Alison Galloway, PhD*
- 11:30 AM – 1:00 PM **A3** **A Comparison of Patterns of Dismemberment Between Rural and Urban Areas in Northern California**
Lillian Antonelli, BS; Shelby Hard, BA*; Sadie Friend, BS; Devin Adcox, BS; Eric Bartelink, PhD; Shannon Clinkinbeard, MA; Ashley Kendell, PhD; Colleen Milligan, PhD; P. Willey, PhD*
- 11:30 AM – 1:00 PM **A4** **Establishing a Skeletal Atlas of Elder Abuse: An Expanded Study of Fracture Patterns in Documented Cases**
Katelyn Bolhofner, PhD; Laura Fulginiti, PhD; Jane Buikstra, PhD*
- 11:30 AM – 1:00 PM **A5** **Trauma Interpretation: A Case Study in Bone Healing**
Kerianne Armelli, PhD; Megan Carroll, BS; Jane Harris, PhD*
- 11:30 AM – 1:00 PM **A6** **Investigation of Gunshot Homicides in the New Mexico Decedent Image Database**
Delaney Edwards, BA; Mariyam Isa, PhD*
- 11:30 AM – 1:00 PM **A7** **A Proposal for Cut Marks Classification and Analysis: Serrated vs. Non-Serrated Knives**
Giada Steiger, MSc; Matteo Borrini, PhD**
- 11:30 AM – 1:00 PM **A8** **Analyzing Chopping/Hacking Cut Mark Characteristics on Bone: Implications for Forensic Analysis**
Kelly McGehee, MA; John Schultz, PhD; Sarah Freidline, PhD*
- 11:30 AM – 1:00 PM **A9** **Assessing Minimum Kerf Width Measurement Error**
Alexis VanBaarle, BA; Heather Garvin, PhD*
- 11:30 AM – 1:00 PM **A10** **The Relationship Between Skull Trauma and Demographics in Contemporary New Mexicans**
Elise Adams, BA; Jesse Goliath, PhD*
- 11:30 AM – 1:00 PM **A11** **Postmortem Interval Estimation and the Recognition of Bone Trauma Through the Analysis of Physicochemical Changes Produced by Bone Diagenesis Over Forensic Timescales**
Caley Mein, MRes; Jennifer Jones, PhD; Catherine Tennick, PhD; Anna Williams, PhD*
- 11:30 AM – 1:00 PM **A12** **Forensic Anthropological Studies Published From India During 2011–2022: A Literature Review and Meta-Analysis**
*Jagmahender Sehrawat, PhD**
- 11:30 AM – 1:00 PM **A13** **The Reliability and Utility of Surgical Materials in Scientific Identification Via Comparative Medical Radiography**
Rose Leach, MA; Jered Cornelison, PhD; Christine Pink, PhD; Carolyn Isaac, PhD*

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- 11:30 AM – 1:00 PM **A14** **A Comparison of the Gross and Radiographic Appearance of Classic Metaphyseal Lesions**
*Miriam Soto Martinez, PhD**; *Julie Fleischman, PhD*; *Jason Wiersema, PhD*
- 11:30 AM – 1:00 PM **A15** **The Application of Craniofacial Superimposition in a Case of Death in Migratory Transit on the Coast of Granada**
*Rubén Martos, PhD**; *Fernando Navarro, PhD*; *Inmaculada Alemán*
- 11:30 AM – 1:00 PM **A16** **A Validation of the FSS Method for Forensic Frontal Sinus Identification Using a United States Sample**
*Patricia Avent, BA**; *Lauren Butaric, PhD*
- 11:30 AM – 1:00 PM **A17** **Cobb Angle Estimation in a Deceased Population**
*Rachel Meach, BS**; *Ellen Fricano, PhD*; *Camryn Shirley*; *Alicia Grosso, PhD*
- 11:30 AM – 1:00 PM **A18** **Inter- and Intra- 3D Modeling Reliability From Computed Tomographic Imaging of the Lumbar Vertebrae**
*Summer Decker, PhD**; *Daniel Martin, MD*; *Louis Leon, MD*; *Jonathan Ford, PhD**
- 11:30 AM – 1:00 PM **A19** **Investigating Forensic Anthropologists' Training and Understanding of Evolutionary Theory**
*An-Di Yim, PhD**; *Michala Stock, PhD*; *Allysha Winburn, PhD*
- 11:30 AM – 1:00 PM **A20** **The Regression Analyses of Nasal Measurements for Forensic Facial Reconstruction: From Juvenile to Adult**
*Dong-Ho Kim, PhD**; *Sang-Seob Lee, DPhil*; *Yi-Suk Kim, MD, PhD*; *Dai-Soon Kwak, PhD*; *U-Young Lee, MD, PhD*
- 11:30 AM – 1:00 PM **A21** **The Significance of Facial Soft Tissue Thickness in Craniofacial Reconstruction: A Systematic Review and Meta-Analysis**
*Jagmahender Sehrawat, PhD**; *Bhavna Ahlawat, MSc*
- 11:30 AM – 1:00 PM **A22** **Sixteen Years of Forensic Anthropology at the Harris County Institute of Forensic Sciences (HCIFS): Reflections and Looking Forward**
*Julie Fleischman, PhD**; *Jason Wiersema, PhD*; *Miriam Soto Martinez, PhD*
- 11:30 AM – 1:00 PM **A23** **Forensic Anthropology Casework at the St. Louis County Office of the Medical Examiner**
*Lindsay Trammell, PhD**
- 11:30 AM – 1:00 PM **A24** **Research Needs vs. Publication Trends in Forensic Anthropology**
*Mariyam Isa, PhD**; *Amy Michael, PhD**; *Catherine Wainer, BA*
- 11:30 AM – 1:00 PM **A25** **A Postdoctoral Forensic Anthropology Fellowship in the Medical Examiner Setting: A Vision for the Future**
*Jason Wiersema, PhD**; *Miriam Soto Martinez, PhD*; *Julie Fleischman, PhD*; *Luis Sanchez, MD*
- 11:30 AM – 1:00 PM **A26** **A Technical Note on Recovery and Processing of Burned Human Remains**
*Hayden McKee-Zech, MSc**; *Sara Fatula, MA*; *Giovanna Vidoli, PhD*; *Joanne Devlin, PhD*

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Thursday

Beyond the Science: The Value of Anthropological Forensics

Moderator: Krista Bennett

Co-Moderator: Cahjane Henfield

- 8:30 AM – 8:45 AM **A27** **The Role of Anthropologists in the Identification Process Across Medicolegal Jurisdictions**
*Ginesse Listi, PhD**; *Teresa Wilson, PhD*; *Emily Michon, MA*; *Sophia Reck, MA*; *Krista Bennett, MA*
- 8:45 AM – 9:00 AM **A28** **Applying A Four-Field Approach to Forensic Anthropology Casework, Capacity-Building, and Consultation**
*Jaymelee Kim, PhD**; *Lucia Elgerud, PhD*; *Megan Moore, PhD*
- 9:00 AM – 9:15 AM **A29** **The Evolution of a Holistic Anthropological Approach to Personal Identification at the Pima County Office of the Medical Examiner**
*Jennifer Vollner, PhD**; *Bruce Anderson, PhD*; *Caitlin Vogelsberg, PhD*; *Robin Reineke, PhD*; *Mirza Monterroso, MA*
- 9:15 AM – 9:30 AM **A30** **The Anthropology of Forensic Identification: Four-Field Methods Used by the Louisiana State University (LSU) Forensic Anthropology and Computer Enhancement Services (FACES) Laboratory**
*Sophia Reck, MA**; *Krista Bennett, MA*; *Teresa Wilson, PhD*; *Ginesse Listi, PhD*; *Emily Michon, MA*
- 9:30 AM – 9:45 AM **A31** **Identification Investigations: A Collaborative Approach to the Resolution of Long-Term Unidentified Persons Cases at the New York City Office of Chief Medical Examiner**
*Angela Soler, PhD**; *Justin Goldstein, MA*; *Aden Naka, MSc*
- 9:45 AM – 10:00 AM **A32** **Beyond the Science: The Value of Anthropological Forensics Discussion**
*Ginesse Listi, PhD**; *Emily Michon, MA*; *Sophia Reck, MA*; *Krista Bennett, MA*
- 10:00 AM – 10:15 AM **BREAK**

The Fate of Postmortem Remains: Taphonomy and Determining the Postmortem Interval

Moderator: Katherine Pope

Co-Moderator: Christopher Goden

- 10:15 AM – 10:30 AM **A33** **To Scavenge or Not to Scavenge: Rethinking Patterns of Scavenging Behaviors in the Western United States**
*Cheyenne Collins, MA**
- 10:30 AM – 10:45 AM **A34** **Scavenging in a Wetland Environment: Documentation of Vulture Scavenging of Fully and Partially Submerged Human Remains**
*Kelsea Hentschel-Fey, MA**; *Tuesday Frasier, MS*; *Kara DiComo, BA*; *Gennifer Goad, MA*
- 10:45 AM – 11:00 AM **A35** **Estimating Postmortem Submersion Interval: Implications for Varied Water Conditions and Skin Tones**
Ibukunoluwa Olowe, MSc; *Anna Williams, PhD**

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| 11:00 AM – 11:15 AM | A36 | Assessing Patterns of Moisture Content in Decomposing, Desiccated, and Mummified Tissue in the Southeastern United States <i>Christine Bailey, MA*</i> ; Autumn Lennartz, MA; Maggie Klemm, BS; Cameron Privette, BS; Carter Unger, BS; Rebecca George, PhD |
| 11:15 AM – 11:30 AM | A37 | The Metabolomics-Based Estimation of Postmortem Interval From Bones for Forensic Applications <i>Andrea Bonicelli, PhD*</i> ; Noemi Procopio, PhD |
| 11:30 AM – 11:45 AM | A38 | The Impact of Fat Mass on Decomposition Rate and Postmortem Interval Estimation <i>Emma Giacomello, MA*</i> ; Michelle Hamilton, PhD |
| 11:45 AM – 1:00 PM | | BREAK |

Trauma Assessment: Timing, Fractography, and Thermal Damage

Moderator: Leslie Eisenberg

Co-Moderator: Melinda Carter

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| 1:00 PM – 1:15 PM | A39 | A Preliminary Investigation of Fractographic Method Accuracy in Determining Fracture Propagation Direction in Human Tibiae <i>Christopher Goden, MA*</i> ; Amanda Agnew, PhD; Yun-Seok Kang, PhD; Kyra Stull, PhD; Angela Harden, PhD |
| 1:15 PM – 1:30 PM | A40 | An Examination of Strain Mode at Fracture in Experimentally Loaded Human Tibiae <i>Angela Harden, PhD*</i> ; Yun-Seok Kang, PhD; John Bolte, PhD; Kyra Stull, PhD; Amanda Agnew, PhD |
| 1:30 PM – 1:45 PM | A41 | An Evaluation of Blunt Force Trauma Mechanism Interpretations Inferred From Skeletal Fracture Morphology and Patterning <i>Donna Boyd, PhD*</i> ; Victoria Pate |
| 1:45 PM – 2:00 PM | A42 | The Application of Forensic Fractography to High-Velocity Projectile Trauma in Long Bones: Relationships to Velocity and Caliber <i>Devin Adcox, BS*</i> ; Ashley Kendall, PhD; Eric Bartelink, PhD; Hugh Berryman, PhD |
| 2:00 PM – 2:15 PM | A43 | The Microscopic Characteristics of Peri- and Postmortem Fracture Surfaces <i>Jessica Skinner, PhD*</i> ; Natalie Langley, PhD; Yuktha Shanavas, BS; Brian Waletzki, BS; Robert Brown, BS; Jim Herrick, MS; Peter Goguen; Loukham Shyamsunder, PhD; Subramaniam Rajan, PhD |
| 2:15 PM – 2:30 PM | A44 | Distinguishing Between Peri- and Postmortem Fractures to Bone in the Sonoran Desert <i>Marlen Juarez Lopez, BS*</i> ; Kaitlyn Fulp, MA; Katelyn Bolhofner, PhD |
| 2:30 PM – 2:45 PM | A45 | The Thermal Damage Analysis Resulting From a Controlled Burn <i>Rebecca George, PhD*</i> ; Nicholas Passalacqua, PhD; Darren Solomon, MS; David Schauble, MS |
| 2:45 PM – 3:00 PM | | BREAK |

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Isotopes and Commingled Remains: Chemistry at Work in Forensic Anthropology

Moderator: *Rebecca George*

Co-Moderator: *Saskia Ammer*

- 3:00 PM – 3:15 PM **A46** **Reference Materials for Stable Isotope Analysis of Bone: Current Availability and Needs**
*Julianne Sarancha, MS**; *Gwyneth Gordon, PhD*
- 3:15 PM – 3:30 PM **A47** **W.E.I.R.D. Water: Rethinking the Bias in Our Forensic Isotopic Provenancing Methods**
*Taylor Lambrigger, MA**
- 3:30 PM – 3:45 PM **A48** **The Construction of a Bioavailable Strontium Isoscape for South Korea and its Forensic Application**
*Seongshin Gwak, PhD**; *Byeongyeol Song, PhD*; *Yuran Lee, PhD*; *Dongkye Lee, PhD*;
Jisook Min, PhD; *Nam-Kyu Park, PhD*
- 3:45 PM – 4:00 PM **A49** **The Rapid Association of Commingled Remains**
*Kristen Livingston, BS**; *Matthieu Baudelet, PhD*; *Jonathan Bethard, PhD*;
Katie Zejdlik-Passalacqua, PhD
- 4:00 PM – 4:15 PM **BREAK**

75 Years of Forensic Science: Standards, Ethics, and Moving the Field Forward

Moderator: *Donna Boyd*

Co-Moderator: *Yangseun Jeong*

- 4:15 PM – 4:30 PM **A50** **An Update on Standards Development Activities Related to Forensic Anthropology**
*Wendy McQuade, PhD**
- 4:30 PM – 4:45 PM **A51** **What Makes a “Good” Forensic Anthropologist?**
*Allysha Winburn, PhD**; *Meredith Marten, PhD, MPH*; *Benjamin Burgen, PhD*;
Spencer Seymour, MA; *Taylor Walkup, MA*
- 4:45 PM – 5:00 PM **A52** **Repatriation Beyond Native American Graves Protection and Repatriation Act (NAGPRA): The Ethics of America’s Osteology Collections**
*Lyndsey Hornagold, MS**
- 5:00 PM – 5:15 PM **A53** **Data on Methods Usage in Forensic Anthropology Casework From 1972–2022 Using the Forensic Anthropology Database for Assessing Methods Accuracy (FADAMA)**
*Chelsey Juarez, PhD**; *Cris Hughes, PhD*; *An-Di Yim, PhD*

Poster Session

- 11:30 AM – 1:00 PM **A54** **Age-Progressive Acetabular Timing for Age Estimation in African American Males: Preliminary Results**
*Marta San-Millán, MSc, PhD**
- 11:30 AM – 1:00 PM **A55** **Evaluating Aspartic Acid Racemization as a Novel Technique for Forensic Age Determination**
Bhavna Ahlawat, MSc; *Jagmahender Sehwat, PhD**
- 11:30 AM – 1:00 PM **A56** **The Impact of Pelvic Anomalies on Sacral Joint Surface Aging**
*Krista Bennett, MA**

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- 11:30 AM – 1:00 PM **A57** **The Investigation of the Ectocranial Squamosal Suture to Estimate Age at Death**
*Navit Nachmias, BS**; *Steven Lautzenheiser, PhD*; *Joanne Devlin, PhD*
- 11:30 AM – 1:00 PM **A58** **Evaluating the Effects and Timing of Hydrochloric Acid (HCl, 38%) Destruction on Porcine Versus Human Dentition**
*Tammy Bracewell, PhD**; *Christine Jones, PhD*
- 11:30 AM – 1:00 PM **A59** **Testing the Accuracy of Three Dental Aging Methods**
*Maggie Breuer, BA**; *Kaitlyn McKenna, BA*; *Jessica Burden, BA*; *Lauren Young, BA*; *Tim Griffin*
- 11:30 AM – 1:00 PM **A60** **Evaluating Sacral Metrics for Sex Estimation**
Alexandra Klaes, PhD; *Kate Lesciotto, JD, PhD**
- 11:30 AM – 1:00 PM **A61** **A Content Analysis of Sex Estimation Research in the *Journal of Forensic Sciences* Between 2000 and 2021**
*Morgan Ferrell, MA**; *John Schultz, PhD*; *Donovan Adams, PhD*
- 11:30 AM – 1:00 PM **A62** **Sex Estimation Using Interlandmark Distances of the Zygomatics**
*Keegan Beane, BA**
- 11:30 AM – 1:00 PM **A63** **Machine Learning and Discriminant Function Analysis in the Formulation of Generic Models for Sex Prediction Using Patella Measurements**
*Mubarak Bidmos, PhD**; *Oladiran Olateju, PhD*; *Tawsifur Rahman, MS*; *Muhammad E.H. Chowdhury, PhD*
- 11:30 AM – 1:00 PM **A64** **Analyzing Interpretative Approaches in FORDISC® to Improve Sex Estimation Accuracy**
*Arielle Reich, MA**; *Cris Hughes, PhD*; *Heather Garvin, PhD*; *Patricia Avent, BA*
- 11:30 AM – 1:00 PM **A65** **Determining Sexual Dimorphism From Mastoid Triangle Measurements in a South Indian Population: A Computed Tomography (CT) Scan-Based Study**
*Siddhartha Das, MBBS, MD**
- 11:30 AM – 1:00 PM **A66** **A Critical Appraisal of Standardization and Integration of Forensic Anthropological Techniques**
Shubham Thakur, MSc; *Jagmahender Sehwat, PhD**
- 11:30 AM – 1:00 PM **A67** **Differences in Self-Reported Versus Measured Stature**
*Kristina Perez, MS**; *Samantha Esposito, MS*; *Jennifer Sare, MA*; *Katherine Wander, MPH, PhD*
- 11:30 AM – 1:00 PM **A68** **An Osteometric Approach to Separating Commingled Pelvic and Foot Joints**
*Helen Brandt-Litavec, MS**
- 11:30 AM – 1:00 PM **A69** **An Automated Deep-Learning Approach to the Segmentation of Vascular Pore Systems and Osteocyte Lacunae in Virtual and Traditional Histologic Datasets**
Medhat Hassan, BSc; *Joshua Taylor, BSc*; *Janna Andronowski, PhD**
- 11:30 AM – 1:00 PM **A70** **When Bone Lights Up: A Novel Way of Labeling Proteins and Cells and Its Potential Uses**
*Ashley Smith, MSc**
- 11:30 AM – 1:00 PM **A71** **A Preliminary Investigation of Relationships Between Cortical Porosity and Fracture Type in Human Tibiae**
*Mary Cole, PhD**; *Amanda Agnew, PhD*; *Savannah McAdow*; *Carla Goldsmith, BS*; *Angela Harden, PhD*

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| 11:30 AM – 1:00 PM | A72 | Analyzing the Language Used in Forensic Anthropology Population-Affinity Reporting <i>Ilaisah Martinez, BA*</i> ; <i>Allysha Winburn, PhD</i> ; <i>Sean Tallman, PhD</i> |
| 11:30 AM – 1:00 PM | A73 | Assessing Usage Variability in FORDISC® <i>Sage Pletka, BS*</i> |
| 11:30 AM – 1:00 PM | A74 | Evaluating Expertise in Forensic Anthropology <i>Nicholas Passalacqua, PhD*</i> ; <i>Marin Pilloud, PhD</i> ; <i>MariaTeresa Tersigni-Tarrant, PhD</i> ; <i>Natalie Langley, PhD</i> |
| 11:30 AM – 1:00 PM | A75 | The Ceremonial Use of Human Remains: Palo Monte in Maricopa County, Arizona <i>Andrew Seidel, PhD*</i> ; <i>Laura Fulginiti, PhD</i> |
| 11:30 AM – 1:00 PM | A76 | In Science We Trust? An Analysis of Demographic Factors Influencing Faith in Forensic Science <i>Allysha Winburn, PhD*</i> ; <i>Andrea Palmiotto, PhD</i> ; <i>Christine Pink, PhD</i> ; <i>Carrie LeGarde, MA</i> ; <i>Carrie Brown, PhD</i> |
| 11:30 AM – 1:00 PM | A77 | An International Validation Study of Artificial Intelligence (AI) -Guided Craniofacial Superimposition in a Contemporary Population Sample <i>Rosario Guerra MartÃi, PhD*</i> ; <i>Oscar IbÃaÃez, PhD</i> ; <i>Gennifer Goad, MA</i> ; <i>RubÃn Martos, PhD</i> ; <i>Enrique Bermejo, PhD</i> ; <i>Andrea Valsecchi, PhD</i> ; <i>Erin Kimmerle, PhD</i> |
| 11:30 AM – 1:00 PM | A78 | The Life-Long Immobility Effects on Skeletal Morphology: A Case Study Involving Cerebral Palsy <i>Megan Carroll, BS*</i> ; <i>Kerianne Armelli, PhD</i> ; <i>Jane Harris, PhD</i> |

Friday

Positive Forensic Identification: Collaboration and Emerging Technologies

Moderator: Sharon Derrick

Co-Moderator: Sophia Reck

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| 8:45 AM – 9:00 AM | A79 | WITHDRAWN |
| 9:00 AM – 9:15 AM | A80 | The Georgian Recovery, Documentation, and Identification Project: Preliminary Results From a Mass Grave Excavation <i>Meri Gonashvili, MD, MSc*</i> ; <i>Kelly Kamnikar, PhD*</i> ; <i>Nicholas Herrmann, PhD</i> ; <i>Nino Tavartkiladze, MS</i> ; <i>Tea Takniashvili, MD</i> ; <i>Buba Chachkhiani, MS</i> ; <i>Keegan Beane, BS</i> |
| 9:15 AM – 9:30 AM | A81 | From a Simulated Environment to Real-Life Applications: Human Identification on Maxillary Sinus Morphologies <i>Teresa Runge, MSc*</i> ; <i>Matteo Borrini, PhD</i> |
| 9:30 AM – 9:45 AM | A82 | Computer-Assisted CT/R Identification (Cacti®) <i>Sharon Derrick, PhD*</i> ; <i>Ruby Mehrubeoglu, PhD</i> ; <i>Omer Sevinc, PhD</i> |
| 9:45 AM – 10:00 AM | A83 | Forensic Identification Using Craniofacial Superimposition: Estimation of Facial Soft Tissue Depth Using Machine Learning Techniques <i>Carlos Sanchez-MuÃoz, MSc</i> ; <i>Pablo Mesejo, PhD*</i> ; <i>Sergio Damas, PhD</i> |
| 10:00 AM – 10:15 AM | | BREAK |

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Aspects of the Biological Profile I: Estimating Age

Moderator: Katharine Kolpan

Co-Moderator: Kaleigh Best

- 10:15 AM – 10:30 AM **A84** **The Utility of Digital Bone Loss (DBL) for Biological Profile Reconstruction in Forensic Anthropology**
*Yangseung Jeong, PhD**; Shannon Velasquez, BS; Leslie Gonzalez, BS; Casey Tomlin, BS; Marcus Luciano; Eun Jin Woo, PhD
- 10:30 AM – 10:45 AM **A85** **Through the Looking Glass: The Application of Aspartic Acid Racemization to Age Estimation in a Spanish Sample**
*Sara C. Zapico, PhD**; Douglas Ubelaker, PhD
- 10:45 AM – 11:00 AM **A86** **Informative Priors Produce Precision-Accuracy Tradeoff in Dental Developmental Age Estimation**
*Valerie Sgheiza, MA, MS**
- 11:00 AM – 11:15 AM **A87** **Risser's vs. Schulz's Sonography Staging for Medicolegal Age Estimation in the Living**
*Mohit Chauhan, MBBS, MD, DHM**; Anil Aggarwal, MBBS, MD
- 11:15 AM – 11:30 AM **A88** **Radiographic Age Estimation Based on Vertebral Degenerative Changes**
*Bradley Adams, PhD; Stephanie Fuehr, MA**; Fransheska Olivares-Perez, MS; Alexandra Semma Tamayo, MSc
- 11:30 AM – 11:45 AM **A89** **The Age Changes in Cranial Base Synchondroses in a Cadaveric Population**
*Melinda Carter, MD, PhD**; Jordan Coulter, BS; Rishika Pandey, BS; Kevin Hayes, DO
- 11:45 AM – 1:00 PM **BREAK**

Aspects of the Biological Profile II: Sex Assessment

Moderator: Jered Cornelison

Co-Moderator: Cheyenne Collins

- 1:00 PM – 1:15 PM **A90** **Introducing OnSEt: The Ontogenetic Subadult Sex Estimation System**
*Stephanie Cole, MS**; Elaine Chu, MA; Kyra Stull, PhD
- 1:15 PM – 1:30 PM **A91** **The Utility of Combining Morphological and Metric Data Into Statistical Frameworks for Classification of Osteological Sex in the Pubis**
*Katherine Lane, MA**; John Schultz, PhD; Donovan Adams, PhD
- 1:30 PM – 1:45 PM **A92** **The Effect of Age on Sex Estimation of the Greater Sciatic Notch Morphology Using Walker in an Australian Population**
*Angel DesMarais, PhDc**; Zuzana Obertová, PhD; Daniel Franklin, PhD
- 1:45 PM – 2:00 PM **A93** **A Case Study for the Impact of Gender Affirming Hormone Treatment on the Gross Morphology of the Bony Pelvis in Gender Variant Individuals**
*Raphaela Mero, MA**
- 2:00 PM – 2:15 PM **A94** **A Novel Method for Estimating Sex in New Zealand and Thai Populations Using Enthesis-Based Osteometrics From the Cranium and Clavicle**
*Jade De La Paz, PhD**; Stephanie Woodley, PhD, MSc; Hallie Buckley, PhD; Siân Halcrow, PhD; Nawaporn Techataweewan, MD, PhD
- 2:15 PM – 2:30 PM **BREAK**

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Aspects of the Biological Profile III: Population Affinity

Moderator: Angela Harden

Co-Moderator: Ashley Smith

- 2:30 PM – 2:45 PM **A95** **Examining Evolutionary Significance of Population Affinity From Craniofacial Morphological Features**
*Amber Plemons, MA**
- 2:45 PM – 3:00 PM **A96** **The Covariance, Correlation, and Mutual Information of Cranial Macromorphoscopic Traits and Interlandmark Distances**
Briana New, MA; Leah Auchter, MA; Elaine Chu, MA; Louise Corron, PhD; Kyra Stull, PhD*
- 3:00 PM – 3:15 PM **A97** **Biological Distance Assessment Using Matched Data From Two Geographically Proximate Samples in Latin America**
*Kelly Kamnikar, PhD**
- 3:15 PM – 3:30 PM **A98** **A Survey of Population Affinity (Ancestry) Estimation at the Defense Prisoners of War/ Missing in Action (POW/MIA) Accounting Agency**
Amanda Hale, MA; Rebecca Wilson-Taylor, PhD; Alexander Christensen, PhD; Sydney Garcia, MA*
- 3:30 PM – 4:00 PM **BREAK**

Aspects of the Biological Profile IV: Stature Estimation

Moderator: Natalie Lanley

Co-Moderator: Isabel Melhado

- 4:00 PM – 4:15 PM **A100** **The Effective Use of Stature in Forensic Identification**
*John Byrd, PhD**
- 4:15 PM – 4:30 PM **A101** **A Reassessment of Stature for Modern Native Americans Using the New Mexico Decedent Image Database (NMDID) Data**
Heather Edgar, PhD; Kelly Kamnikar, PhD; Taylor Busby, BS; Jordan Martinez, BA; Jana Meyer, MSc, MA; Mario Peña Muñoz, BS; Roberto Rios; Ian Wallace, PhD; Nicollette Appel, MS; Stephen Ousley, PhD*
- 4:30 PM – 4:45 PM **A102** **Expanding the Scope of Subadult Stature Estimation**
Elaine Chu, MA; Kyra Stull, PhD*
- 4:45 PM – 5:00 PM **A103** **Investigating the Reliability and Validity of the Portable Osteometric Device**
Eric Anderson, MA; Sierra Malis, MA; Molly Zuckerman, PhD; Anna Osterholtz, PhD*

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Poster Session

- 11:30 AM – 1:30 PM **A99** **Exploring Macromorphoscopic Traits in Relation With Craniofacial Ratios**
*Leah Auchter, MA**; *Briana New, MA*; *Elaine Chu, MA*; *Louise Corron, PhD*; *Kyra Stull, PhD*
- 11:30 AM – 1:30 PM **A104** **How Complete Are These Remains? An Assessment of Training and Experience**
*Andrea Palmiotto, PhD**; *Allysha Winburn, PhD*; *Christine Pink, PhD*; *Carrie Brown, PhD*;
Carrie LeGarde, MA
- 11:30 AM – 1:30 PM **A105** **Sorting Successive Thoracic Vertebrae in Commingled Contexts: A Geometric Morphometrics Approach**
Myrsini Voulgari, MSc; *Ioanna Anastopoulou, PhD*; *Emmanouil Sakelliadis, MD, PhD*;
*Konstantinos Moraitis, MSc, PhD**
- 11:30 AM – 1:30 PM **A106** **The Impact of Age on Pair Matching Accuracy**
*Megan Ingvaldstad, PhD**; *Carrie LeGarde, MA*; *Andrea Palmiotto, PhD*
- 11:30 AM – 1:30 PM **A107** **WITHDRAWN**
- 11:30 AM – 1:30 PM **A108** **The Construction of a National Hydrogen and Oxygen Isoscape for Colombia as a Baseline for the Identification of the Region of Origin of Unidentified Victims of the Internal Armed Conflict**
*Daniela Orozco Ramelli, BA**; *Ana Carolina Guatame, MSc*; *Tiffany Saul, PhD*;
Jonathan Drake, MS
- 11:30 AM – 1:30 PM **A109** **Isotopic Human Geolocation in North America: A Data Review and Compilation of Oxygen and Strontium Isotopic Databases**
*Kirsten Verostick, PhD**; *Alejandro Serna, PhD*; *Gabriel Bowen, PhD*
- 11:30 AM – 1:30 PM **A110** **The Utility of Birthplace Prediction From Stable Isotope Analysis in Migrant Identification**
*Ivanna Robledo, MA**; *Krysten Cruz, MA*; *Elisabeth Cuerrier-Richer, MSc*; *ChristiAna Dunham, MS*;
Kelsey Fox, MA; *Michelle Hamilton, PhD*; *Kate Spradley, PhD*
- 11:30 AM – 1:30 PM **A111** **Isoscapes Around the World: Mapping International Forensic Stable Isotopes Research**
*A. Skylar Joseph, MS**; *Stephen Fonseca, BS*
- 11:30 AM – 1:30 PM **A112** **The Region-of-Origin Predictions of Arroyo Grande Jane Doe: A Cold Case Isotopic Study From Nevada**
*Alina Tichinin, BA**; *Taylor Lambrigger, MA*; *Elizabeth Hannigan, MA*; *Eric Bartelink, PhD*
- 11:30 AM – 1:30 PM **A113** **The Off-Season of Dental Cementum Investigations**
*Benoit Bertrand, PhD**; *Carina Marques, PhD*; *Ahmad Kaddoura*; *Anne Bécart Robert, DDS, PhD*;
Eugénia Cunha, PhD; *Didier Gosset, MD, PhD*; *Valery Hédouin, MD, PhD*
- 11:30 AM – 1:30 PM **A114** **A New Method to Estimate Time Since Death Using Binary Observations and Random Forest Regression**
*Michael Kenyhercz, PhD**; *Giovanna Vidoli, PhD*
- 11:30 AM – 1:30 PM **A115** **Animal Scavenging of Human Skeletal Remains in Western North Carolina**
*Maggie Klemm, BS**
- 11:30 AM – 1:30 PM **A116** **Future Avenues in Research Standardization for Terrestrial Human Decomposition**
*Hayden McKee-Zech, MSc**; *Sarah Schwing, MA**; *Erin Patrick, MSc*

ANTHROPOLOGY

- 11:30 AM – 1:30 PM **A117** **Setting a Baseline: An Analysis of Florida’s Forensic Institute for Research, Security, and Tactics (F1RST)**
Austin Polonitza, MS; Heather Walsh-Haney, PhD*
- 11:30 AM – 1:30 PM **A118** **The Skeletal Manifestations of Striped Skunk (*Mephitis Mephitis*) Scavenging on Human Remains**
*Alexander Smith, BA**
- 11:30 AM – 1:30 PM **A119** **Surveying Scavengers and Their Taphonomic Effects in Murfreesboro, Tennessee**
Miranda Fain, BS; Yangseung Jeong, PhD*
- 11:30 AM – 1:30 PM **A120** **The Applicability of the Postmortem Submersion Interval Estimation Formula for Human Remains Found in Subtropical Aquatic Environments**
Kara DiComo, BA; Erin Kimmerle, PhD*
- 11:30 AM – 1:30 PM **A121** **The Effect of Multiple Interments on Soil pH and Decomposition in Two Cemeteries in Cyprus: Implications for Future Cemetery Use**
Huntyr Hill, BS; Delanie Fether, BS; Hannah Carson, BS; Anna Williams, PhD; Xenia-Paula Kyriakou, MA, PhD*
- 11:30 AM – 1:30 PM **A122** **Using Fiber-Optic Reflectance Spectroscopy (FORS) to Identify Humans Decomposition Characteristics in Plants and Soil**
Anielle Duncan, BA; Sierra M. Bow, PhD; Amy Mundorff, PhD; Dawnie Steadman, PhD*
- 11:30 AM – 1:30 PM **A123** **The Effects of Varying Soil pH and Aluminum Foil Wrapping on the Elemental Composition of Bones**
Raeann Motacek, BA; Lillian Gonzales, BS*; Andrea Palmiotto, PhD*
- 11:30 AM – 1:30 PM **A124** **Decomposition in the Desert: An Examination of the Relationship Between Exposure to Ultraviolet Radiation and the Process of Decomposition**
Mia Spanyers, BS; Kaitlyn Fulp, MA; Katelyn Bolhofner, PhD*
- 11:30 AM – 1:30 PM **A125** **The Effects of Topography and Animal Scavenging on the Dispersal Patterns of Surface-Scattered Human Remains: A Study of a Forensic Sample From Actual Casework**
Kristine Kortonick, MS; Luis Cabo, MS*
- 11:30 AM – 1:30 PM **A126** **Carnivore-Related Bone Damage and Dispersal in the Swiss Alps: A Forensic Anthropological Analysis**
Lara Indra, MSc; Sandra Lösch, PhD*
- 11:30 AM – 1:30 PM **A127** **The Effects of the Fluvial Environment on Saw Mark Evidence in Bone**
Tyra Volney, BS; Alicia Grosso, PhD**
- 11:30 AM – 1:30 PM **A128** **Postmortem Skeletal Damage Characteristics From Coffin Contexts Mimicking Thermal and Sharp Force Indicators**
Rebecca Wilson-Taylor, PhD, Janet Finlayson, PhD; Katie Rubin, PhD*
- 11:30 AM – 1:30 PM **A129** **Trends in Forensic Taphonomic Research Over Time Within the American Academy of Forensic Sciences**
*Rhian Dunn, MS; Paige Lynch, MS; Andrea Zurek-Ost, MS**
- 11:30 AM – 1:30 PM **A130** **A Comparison of Anthropological Methods and Next Generation Sequencing for Population Affinity in the East Marshall Street Well**
Amber Mundy, MS; Baneshwar Singh, PhD; Joseph Jones, PhD; Erin Gorden, MFS;*