

ANTHROPOLOGY

Thursday

Poster Session

- 11:30 am – 1:00 pm **A1** **Epi and Histo: Partners in Improving Age-At-Death Estimation**
*Victoria M Dominguez, PhD**; *Sara C. Zapico, PhD**
- 11:30 am – 1:00 pm **A2** **Age Estimation Through Osteon Histomorphometry: An Analysis of Autopsy Samples**
*Enrica Macorano, MD**; *Raffaella Minella, MS*; *Giada Sciàdi Steiger, MS*;
Francesco Introna, MD, PhD
- 11:30 am – 1:00 pm **A4** **Age Estimation of Young Adults in the Italian Population: An Application of Schmelting's Method Using Conventional Radiography**
*Giorgio De Donno, MD**; *Gianfrancesco Di Nunno, MD*; *Alessandra Petruzzellis, MD*;
Stefania Galizia, MD; *Gianluca Gravili, MD*; *Gianluca Gravili, MD*; *Lucrezia Ardito, MD*;
Amato Antonio Stabile Ianora, PhD; *Arnaldo Scardapane, PhD*; *Antonio De Donno, PhD*
- 11:30 am – 1:00 pm **A5** **Estimating Age-at-Death in Adults Using the Calce Method**
*Gloria Eddy, BA**
- 11:30 am – 1:00 pm **A6** **Exploring the Role of Early Life Stress in the Accuracy of Age-at-Death Estimation Among Adults**
*Caroline Znachko, MA**; *Taylor Walkup, MA*; *Derek Boyd, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A7** **A Validation Study of Bergs' Method for Aging the Pubic Symphysis**
*Amanda Schultz, BA**; *Erin Kimmerle, PhD*
- 11:30 am – 1:00 pm **A8** **Age Estimation of the Pubic Symphysis From 3D-Printed Proxies**
*Rhys Williams, PhD**; *Phoebe Baker, MS*; *Rebecca Strong, PhD*
- 11:30 am – 1:00 pm **A9** **Observer Confidence Versus Accuracy: Analysis of 3D-Printed Pubic Symphyses**
*Rhys Williams, PhD**; *Phoebe Baker, MS*; *Rebecca Strong, PhD*
- 11:30 am – 1:00 pm **A10** **Sex Estimation Using Metrics of the Innominate: A Validation of the DSP2 Method**
*Alexandra Klales, PhD**; *Kate Lesciotto, PhD*
- 11:30 am – 1:00 pm **A11** **The Effect of Mental Eminence Trait Scores on Sex Estimation Accuracy Rates Using MorphoPASSE**
*Kate Lesciotto, PhD**; *Arikka Carroll*; *Alexandra Klales, PhD*
- 11:30 am – 1:00 pm **A12** **An Assessment of MorphoPASSE Software for Undergraduate Forensic Anthropology Education: Integrating Sex Estimation Technology Into the Classroom**
*Elauna Hicks, BS**; *Shannon Hodge, PhD*
- 11:30 am – 1:00 pm **A13** **Assigned-Sex-at-Birth Estimation Using a 3D-Printed Replica of the Os Coxa: A Case Study of a Transgender Woman Who Used Gender-Affirming Hormone Therapy During Life**
*Taylor M. Flaherty, MCS**; *Jennifer Byrnes, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A14** **A Geometric Morphometric Examination of Possible Patterns of Sexual Trait Expression Across Five Skeletal Elements**
*Kaleigh Best, PhD**

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- 11:30 am – 1:00 pm **A15** **A Test of the (hu)MANid Analytical Program**
*Jordan Karsten, PhD**; *Christina Nicholas, PhD*; *Hayley Hintz, BS*
- 11:30 am – 1:00 pm **A16** **A Test of the (hu)MANid Program on Edentulous Mandibles**
*Natalie Wise, MA**; *Erin Kimmerle, PhD*; *Gregory Berg, PhD*
- 11:30 am – 1:00 pm **A17** **Evaluating a Greek-Cypriot Sample in FORDISC 3.1**
*Shivani Sanger, MS**; *Joe Hefner, PhD*; *Xenia-Paula Kyriakou, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A18** **Introducing FoRDent: A New Tool for Estimating Population Affinity From Dental Morphology**
*Heather Edgar, PhD**; *Joe Hefner, PhD*; *Ron Richardson, MS*
- 11:30 am – 1:00 pm **A19** **Digital Archives: An Investigation of Skeletal (In)completeness Using IRIS**
*Hailey Scacciaferro, BS**; *Savanna Agilar, MS*; *Micki Besse, MS*; *Heather Walsh-Haney, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A20** **Assessing the Applicability of Subadult Stature Estimation Methods for Japanese Subadults**
*Amariah Trevino, BS**; *Elaine Chu, PhD*
- 11:30 am – 1:00 pm **A21** **CT Scan-Based Cranial Anthropometry for Stature Estimation: A Comparative Analysis Between Base of Skull and Front of Skull Parameters in a South Indian Population**
*Siddhartha Das, MD**; *Kirthika Ravi, MD*; *Dr Ambika Patra, MD*; *Deepak Barathi, MD*; *Harichandrakumar Kottayen Thazhath, PhD*
- 11:30 am – 1:00 pm **A22** **How Many Vertebrae Should Be Present to Estimate the Height of the Total Vertebral Column With Accuracy?**
*Yangseung Jeong, PhD**; *Hyunwoo Jung, PhD*
- 11:30 am – 1:00 pm **A23** **The Correlation of the Dimensions of Hands and Feet With Height in an Indigenous Population of the Tribal District of Himachal Pradesh, India**
*Yatiraj Singi, MD**; *Dipen Dabhi, MD*
- 11:30 am – 1:00 pm **A24** **The Effects of Tibial Nutrient Foramen Location on Biological Profile Construction**
*Olivia Messenger, BA**; *Krista Latham, PhD*; *Stephen Nawrocki, PhD*
- 11:30 am – 1:00 pm **A25** **A Glimpse Through the Veil of Lost Identities: Identification Practices and Outcomes in Greece**
*Despoina Flouri, MD**; *Sophia Mavroudas, PhD*; *Christina Karydi, MCS*; *Antonios Papadomanolakis, MD, PhD*; *Elena Kranioti, MD, PhD*
- 11:30 am – 1:00 pm **A26** **Applying Postmortem Fingerprinting Into Disaster Victim Identification in Maverick County, Texas**
*Victoria Swenson, PhD**; *Bryan Johnson, MSFS*; *Courtney Siegert, PhD*; *Chloe McDaneld, MA*; *Ivanna Robledo, MA*; *Molly Kaplan, MA*; *Molly Scott*; *Christopher McMillan*; *Veronica Flores-Guillen, BS*; *Kate Spradley, PhD*
- 11:30 am – 1:00 pm **A27** **Unveiling the Role of Tattoos as Ink Trails in Forensic Anthropological Identifications: Exemplified From a Survey of a Northwest Indian Population**
*Jagmahender Singh Sehrawat, PhD**; *Shubham Thakur, MS*; *Tamanna Kumari*
- 11:30 am – 1:00 pm **A28** **Using Images of the Ear for Postmortem Human Identification**
*Jane Harris, PhD**; *Aiden Gilbert*

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- 11:30 am – 1:00 pm **A29** **An Intersectional Approach to Developing a Prediction Model for Adult Missing Persons Off a Major United States Corridor in Idaho Using Novel Computational Techniques and Multidisciplinary Data**
*Kirsten Mink, PhD**; *Donna Delparte, PhD*; *Miles Rhoads, BS*; *Kyle Paulekas, MS*
- 11:30 am – 1:00 pm **A30** **Enhancing Forensic Human Identification in Emergencies and Disasters: Leveraging Technology for Improved Efficiency, Cost Reduction, and Ethical Practices**
*Megan Bassendale, MS**
- 11:30 am – 1:00 pm **A31** **Understanding the Role of CODIS and Familial DNA in Positive Human Identification for the Louisiana Repository for Unidentified and Missing Persons**
*Anthony Lanfranchi, MS**; *Teresa Wilson, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A32** **WITHDRAWN**
- 11:30 am – 1:00 pm **A33** **Vertebral Bone Density Variations in Scoliotic vs. Non-Scoliotic Juveniles and Their Implications for Schmorl’s Node Development: A CT-Based Analysis Using the New Mexico Decedent Image Database**
*Ellen Shakeshaft, MS**; *Matteo Borrini, PhD*; *Constantine Eliopoulos, PhD*
- 11:30 am – 1:00 pm **A34** **Vertebral Variation in Forensic Anthropology Casework**
*Andrew Seidel, PhD**; *Kiana Miller, BS*
- 11:30 am – 1:00 pm **A35** **The Ontogenetic Development of the Glabella and Its Association With Maturation of the Humeral Proximal Epiphysis in Accurate Subadult Sex Estimation**
*Stephanie Cole, PhD**; *Marin Pilloud, PhD*; *Kyra Stull, PhD*
- 11:30 am – 1:00 pm **A36** **Intra-Observer and Inter-Device Error in Osteometric Data**
*Maggie Klemm, MA**; *Dakota Taylor, MA*; *William Belcher, PhD*
- 11:30 am – 1:00 pm **A37** **Morphological Patterns of Corresponding Atlanto-Occipital Joint Surfaces: Potential Applications for Sorting Commingled Human Remains**
*Janet Finlayson, PhD**
- 11:30 am – 1:00 pm **A38** **Two Instances of Unusual Non-Human Remains Encountered in Routine Medicolegal Significance Casework**
*Nicholas Passalacqua, PhD**; *MariaTeresa Tersigni-Tarrant, PhD*
- 11:30 am – 1:00 pm **A39** **An Analysis of Non-Human Skeletal Remains in the Digital Age: An Examination of Temporal Trends (2014–2024) and Taxonomic Diversity in Northern California**
*Kendall Gehring, BS**; *Keilani Adams, BA*; *Jazmin Borryayo, BA*; *Samantha Robinson, BS*; *Amber Plemons, PhD*; *Colleen Milligan, PhD*; *Ashley Kendall, PhD*

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Thursday—Session I

Isotope Analysis and Chemical Considerations in Forensic Anthropology

Moderator: Kirsten Verostick, PhD

Co-Moderator: Courtney Siegert, MA

- 8:15 am – 8:30 am **A40** **A Multi-Isotope Approach for Reconstructing Residence Patterns of Massacre Victims of the Indian Uprising in Ajnala, Amritsar, India**
*Jagmahender Singh Sehrawat, PhD**; *Eric Bartelink, PhD*
- 8:30 am – 8:45 am **A41** **A Stable Foundation for the Use of Tooth Enamel Oxygen Isotopes in Human Identification**
*Gabriel Bowen, PhD**; *Chris Stantis, PhD*; *Kirsten Verostick, PhD*;
Stephannie Covarrubias, MPH; *Lesley Chesson, MS*
- 8:45 am – 9:00 am **A42** **Intra-Individual Isotopic Variation Within Teeth: Refining Forensic Applications Using Isotopes**
*Kirsten Verostick, PhD**; *Chris Stantis, PhD*; *Gabriel Bowen, PhD*
- 9:00 am – 9:15 am **A43** **The Impact of Chemical Maceration on $\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and $\delta^{18}\text{O}$ Values in Bone Collagen and Bioapatite**
*Julianne Sarancha, MS**; *Gwyneth Gordon, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 9:15 am – 9:30 am **A44** **The Role of Cadaver Decomposition Islands on Soil Chemistry During Carrion Decomposition: Eco-Forensic Implications in a Southern Nigerian Ecosystem**
*Darlington Onyejike, PhD**; *Oghenefego Adheke, PhD*; *Loveday Oghenemavwe, PhD*;
Bassey Udom, PhD; *Josiah Hart, PhD*
- 9:30 am – 9:45 am **A45** **Reassessing Forensic Significance With Radiocarbon Dating at the Oklahoma Office of the Chief Medical Examiner: A Cautionary Tale**
*Sara Getz, PhD**; *Carlos Zambrano, PhD*; *Angela Berg, MA*
- 9:45 am – 10:00 am **BREAK**

Behavior and Culture in Forensic Anthropology

Moderator: Stephanie Hartley, MA

Co-Moderator: Elise Adams, MA

- 10:00 am – 10:15 am **A46** **The Biocultural Dynamics of Postcranial Skeletal Variation: A Focus on Ontogeny, Socioeconomic Status, and Population History**
*Micayla Spiros, PhD**
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 10:15 am – 10:30 am **A47** **Antemortem Tooth Loss as a Biomarker of Structural Vulnerability in a New Mexico Forensic Sample**
*Allysha Winburn, PhD**
- 10:30 am – 10:45 am **A48** **Mapping Oahu's Cold Cases: Evaluating the Role of Structural Barriers in Missing and Unidentified Cases Through Geospatial Analysis**
*Ariel Gruenthal-Rankin, PhD**; *Kalia Lalley, BA*; *Nikita Sookla, BA*; *Kirsten Vacca, PhD*
- 10:45 am – 11:00 am **A49** **The Impact of Substance Misuse Behaviors on Skeletal Physiology and Premature Skeletal Senescence in an Autopsy Population**
*Christine Pink, PhD**; *Prentiss Jones, PhD*

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11:00 am – 11:15 am	A50	Establishing a Skeletal Atlas of Elder Abuse: A Bayesian Examination of the Complex Relationships Between Age, Sex, and the Probability of Abuse or Accident as Related to Skeletal Trauma <i>Jacob Harris, PhD*</i> ; <i>Kaitlyn Fulp, MA</i> ; <i>Jane Buikstra, PhD</i> ; <i>Laura Fulginiti, PhD</i> ; <i>Katelyn Bolhofner, PhD</i> ; <i>Katelyn Bolhofner, PhD</i>
11:15 am – 11:30 am	A51	The “Missing Migrant”: Schrodinger’s Cat of Legal Status and Applicable Frameworks <i>Skylar Joseph, MS*</i>
11:30 am – 1:00 pm		BREAK

Anthropology Special Symposium: Exploring the Black Box: Methodological Applications of AI in Forensic Anthropology

Moderator: Rachael Carew, PhD

Co-Moderator: Donovan Adams, PhD

1:00 pm – 1:15 pm	A52	A Brief Introduction to Artificial Intelligence in Forensic Anthropology: Core Concepts and Ideas <i>Thomas A. Delgado, MA*</i> ; <i>Taylor Flaherty, MS</i> ; <i>Samantha Blatt, PhD</i>
1:15 pm – 1:30 pm	A53	3D Biological Profile: The Application of 3D (STL) Models of Skeletal Remains to Assist With Human Identification <i>Madeline Robles, PhD*</i> ; <i>Sherry Nakhaeizadeh, PhD</i> ; <i>Carolyn Rando, PhD</i> ; <i>Ruth Morgan, DPhil</i>
1:30 pm – 1:45 pm	A54	Using Artificial Intelligence to Automate Human Stage of Decay Identification <i>Anna-Maria Nau, PhD*</i> ; <i>Phillip Ditto, MA*</i> ; <i>Dawnie Steadman, PhD</i> ; <i>Audris Mockus, PhD</i>
1:45 pm – 2:00 pm	A55	Forensic Comparative Radiography Using Transformer-Based Neural Networks and Large Language Models <i>Carolyn Isaac, PhD*</i> ; <i>Redwan Sony, MS</i> ; <i>Alexis VanBaarle, MS</i> ; <i>Joe Hefner, PhD</i> ; <i>Todd Fenton, PhD</i> ; <i>Todd Fenton, PhD</i>
2:00 pm – 2:15 pm	A56	Applying Machine Learning Methods to Age Estimation in Forensic Anthropology—From Glass Box to Black Box <i>Martin Lo, PhD*</i> ; <i>Enrico Mariconti, PhD</i> ; <i>Sherry Nakhaeizadeh, PhD</i> ; <i>Ruth Morgan, DPhil</i>
2:15 pm – 2:30 pm	A57	The Potential Applications and Uses of Neural Radiance Fields (NeRF) and Gaussian Splats: Artificial Intelligence in Forensic Anthropology <i>Katharine Kolpan, PhD*</i> ; <i>Jeffrey Vadala, PhD</i>
2:30 pm – 2:45 pm	A58	Machine Learning and Artificial Intelligence in Forensic Anthropology: Ethical Considerations, Challenges, and Future Applications <i>Sherry Nakhaeizadeh, PhD*</i> ; <i>Micayla Spiros, PhD*</i>
2:45 pm – 3:15 pm		Discussion and Q&A
3:15 pm – 3:30 pm		BREAK

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Refining Methods in Taphonomy and Trauma

Moderator: A. Skylar Joseph, MS

Co-Moderator: Morgan Ferrell, PhD

- 3:30 pm – 3:45 pm **A59** **Fracture Characteristics of Human Ribs Vary With Intracortical Porosity**
*Mary Cole, PhD**; *Angela Harden, PhD*; *Yun-Seok Kang, PhD*; *Amanda Agnew, PhD*
- 3:45 pm – 4:00 pm **A60** **The Application of Forensic Fractography to Thermally Altered Bone**
*Cortney Hulse, PhD**; *Rylan Tegtmeyer Hawke, PhD*; *Mariyam Isa, PhD*; *Kristen Grow, MA*;
Alexander Christensen, PhD
- 4:00 pm – 4:15 pm **A61** **Differential DNA Preservation in Soft and Osseous Tissues After Fire Exposure**
*Arielle Sperber, BA**
- 4:15 pm – 4:30 pm **A62** **Re-Evaluating Temperature Data in Human Tissues Exposed to Fire**
*Ashley Kendell, PhD**; *Beth Shook, PhD*; *Arielle Sperber, BA*; *Shelby Saut, BA*; *David Silveira, MS*
- 4:30 pm – 4:45 pm **A63** **Locating Clandestine Burial Grounds: A Forensic Approach**
*Erin Kimmerle, PhD**
- 4:45 pm – 5:00 pm **A64** **Photogrammetric Documentation of the Changing Surface Morphology of Buried Human Remains**
*Mary Davis, MS**; *Mason Jones, BA*
- 5:00 pm – 5:15 pm **A65** **Cellular Degradation and Migration in Bone as a Tool to Investigate the Postmortem Interval and Skeletal Break Timing**
*Ashley Smith, MS**

Thursday – Session II

Technologies of Reconstruction and Identification

Moderator: Amy Michael, PhD

Co-Moderator: Cheyenne Collins, MA

- 8:30 am – 8:45 am **A66** **3D-CT-Based Estimation of Facial Soft Tissue Thickness in the Punjabi Population for Craniofacial Reconstruction**
*Akhilesh Pathak, MD**; *Chandrakala Gadige, MBBS*
- 8:45 am – 9:00 am **A67** **WITHDRAWN**
- 9:00 am – 9:15 am **A68** **Adapting Facial Approximations to a Modern Audience: The Use of Augmented Reality Filters and Profile Apps**
*Matteo Borrini, PhD**
- 9:15 am – 9:30 am **BREAK**

Case Studies and Lessons in Identification

Moderator: Maria Tersigni-Tarrant, PhD

Co-Moderator: Eliana Gutierrez, MA

- 9:15 am – 9:30 am **A69** **Comparative Identification in 3D: What Virtual Anthropology Can Do for You**
*Stephanie Melillo, PhD**; *Samantha Buck, BS*; *Jessica Cronin, BA*; *Stephen Hostetler, BA, BS*;
Brailey Moeder, BS; *Rhiannon Toy*; *Chenoa Woods*; *Nicole Wray, BA*
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- 9:45 am – 10:00 am **A70** **Forensic Investigative Genetic Genealogy: A New Opportunity to Resolved Unidentified Cases**
*Bruce Anderson, PhD**; *Jennifer Vollner, PhD*; *Caitlin Vogelsberg, PhD*
- 10:00 am – 10:15 am **A71** **The Sugar Land 95: A Forensic Genetic Genealogical Approach to Restoring Individual Identity**
*Samantha Hofland, MA**; *Meradeth Snow, PhD*; *Catrina Banks Whitley, PhD*; *Helen Graham, EdD*;
Abigail Fisher, MS; *Felicia Sparozic, PhD*
- 10:15 am – 10:30 am **A72** **The Wounds Time Does Not Heal: A Case of Historical Pitfalls and the Present-Day Identification of a United States Marine From World War II**
*Rylan Tegtmeyer Hawke, PhD**; *Cullen Black, MS*
- 10:30 am – 10:45 am **A73** **The Use of Antemortem Trauma in Identifications at the Defense POW/MIA Accounting Agency**
*Sam Coberly, PhD**
- 10:45 am – 11:00 am **A74** **Integrating Forensic Archaeology and Historic Battlefield Protocols at Historic Conflict-Related Aircraft Crashesites: A World War II B-17 Case Study**
*Andrea Palmiotto, PhD**; *William Chadwick, PhD*; *Allysha Winburn, PhD*; *Parker Chadwick, BS*;
Robert Ingraham, MS
- 11:00 am – 11:15 am **A75** **An Anthropological Response to Mass Disaster: Lessons Learned From the October 7th Attack**
*Michal Peer, MAsc**; *Tal Simmons, PhD*

Friday

Poster Session

- 11:30 am – 1:00 pm **A76** **Ethical Considerations of Cadaver Dog Training, Certification, and Field Use**
*Victoria Eacott, BA**
- 11:30 am – 1:00 pm **A77** **Examining Contributing Factors to Natural Human Mummification at FOREST in Cullowhee, North Carolina**
*Alex Vacca**; *Kaleigh Best, PhD*; *Rebecca George, PhD*; *Leilah Melerine, BS*
- 11:30 am – 1:00 pm **A78** **First Donor of the Forensic Science Research and Training Laboratory (FSRTL): Exploring Unique Geographic Variation in Human Decomposition in the Mid-Atlantic Region**
*Nickolyn Jackson, BA**; *Molly Kilcarr, BS**; *An-Di Yim, PhD*; *Emily Rancourt, MSFS*
- 11:30 am – 1:00 pm **A79** **Understanding Human Decomposition in the Great White North: A Review of REST[ES]’s First Five Years and Future Directions**
*Elisabeth Cuerrier-Richer, MS**; *Noémie Bitschnau, MSFS*; *Hugues Leblond, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A80** **Opening the Black Box: Explainability Tools in Postmortem Interval Estimation**
*Katherine Weisensee, PhD**; *Madeline Atwell, PhD*; *Carl Ehrett, PhD*; *Madeline Babcock*;
Brianna Cherry
- 11:30 am – 1:00 pm **A81** **A Postmortem Interval Estimation Method for Surface Depositions: A Template Applied in Southeastern Louisiana**
*Sophia Reck, MA**
- 11:30 am – 1:00 pm **A82** **Examining the Effects of Two Freshwater Environments on Decomposition and the Associated Microbial Communities**
*Leah Bell, BS**; *Jane Harris, PhD*

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- 11:30 am – 1:00 pm **A83** **Differences in Tissue Consumption by Maggots**
*Emma Giacomello, MA**; *Michelle Hamilton, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A84** **A Homogenous Diet in a Diverse City: Understanding Isotopic Dietary Variation and Its Forensic Implications in San Francisco, California**
*Taylor Lambrigger, MA**; *Alina Tichinin, MA*
- 11:30 am – 1:00 pm **A85** **On FIRM(S) Footing?: A Review of the Use and Reporting of Stable Isotopic Analysis in Forensic Anthropological Dissertations**
*Alina Tichinin, MA**; *Taylor Lambrigger, MA*
- 11:30 am – 1:00 pm **A86** **The Implications of Quantitative Spectral Analysis of Human Cremains in the Texas State Donated Skeletal Collection (TXST-DSC)**
*Anna Maier, MS**; *Hailey Collord-Stalder, MA**
- 11:30 am – 1:00 pm **A87** **The Development of a Matrix-Matched Reference Material for Quantitative Elemental Analysis of Bone**
*Kristen Livingston, BS**; *Amanda Williams*; *Juliana Baez*; *Matthieu Baudelet, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A88** **An Examination of Volatile Organic Compounds Associated With Human Decomposition Byproducts in Soil**
*Jane Harris, PhD**; *Savannah Struble, MS*; *Philip Yangyuoru, PhD*
- 11:30 am – 1:00 pm **A89** **Assessing the Micro- and Macroscopic Changes of Chemically Altered Bone**
*Shelby Feirstein, MS**; *Sara C. Zapico, PhD*; *Luis Cabo, MS*; *Joe Adserias-Garriga, PhD*
- 11:30 am – 1:00 pm **A90** **Bullet Grazing: Using Laser-Induced Breakdown Spectroscopy to Analyze Metallic Staining on Skeletal Remains**
*Morghan Hogg, MS**; *Micki Besse, MS*; *Savanna Agilar, MS*; *Heather Walsh-Haney, PhD*; *Kevin Davies, PhD*
- 11:30 am – 1:00 pm **A91** **An Analysis of Color Changes in Thermally Altered Bones Using Spectrophotometry**
*Chelsey Juarez, PhD**; *Nicole Saenz, MS*; *Elayne Pope, PhD*; *Alison Galloway, PhD*
- 11:30 am – 1:00 pm **A92** **The Statistical Relationship of Breakaway Spurs and Notches With Saw Class Characteristics in Experimental Dismemberments**
Brigham McKay, BS; *Stephanie Cole, PhD**; *Meghan Gast, BS*; *Heather Garvin, PhD*
- 11:30 am – 1:00 pm **A93** **Damage to the Thorax From CPR and Vulture Scavenging: A Case Presentation From the University of South Florida Donated Skeletal Collection**
*Tuesday Frasier, MS**; *Erin Kimmerle, PhD*
- 11:30 am – 1:00 pm **A94** **Squirrels in the Desert: Regional Scavenging Patterns**
*Alexander Smith, BA**
- 11:30 am – 1:00 pm **A95** **Recovery Rates of Teeth From Outdoor Surface Contexts in Louisiana**
*Ginesse Listi, PhD**
- 11:30 am – 1:00 pm **A96** **Assessing the Effectiveness of Alternative Light Sources in the Search for Skeletal Remains**
*Olivia Thompson, BS**; *James Russell, BFA*; *Stephen Stockman, MPA*; *Jenise Swall, PhD*; *Tal Simmons, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)

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- 11:30 am – 1:00 pm **A97** **Standard Operating Procedures for Forensic Anthropology at Accredited United States Laboratories: A Preliminary Assessment**
*Marion Davidson, MS**; *Allysha Winburn, PhD*; *Jeff Kukucka, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A98** **An Evaluation of the Forensic Anthropology DEIB Peer Engagement Program**
*Erin Waxenbaum, PhD**; *Jaymelee Kim, PhD*; *Jesse Goliath, PhD*; *Rebecca George, PhD*; *Helen Litavec, PhD*
- 11:30 am – 1:00 pm **A99** **The American Academy of Forensic Sciences Ad Hoc Committee on Vicarious Trauma**
*Katharine Pope, MA**; *Brian Gestring, MS**; *Krista Latham, PhD*; *Uzoma Okafor, PhD*; *Kathryn Seigfried-Spellar, PhD*; *Joseph Remy, JD*
- 11:30 am – 1:00 pm **A100** **The Development of a New Pedagogy: The Professional Diploma in Forensic Archaeology at the National Forensic Science University, Gandhinagar, Gujarat, India**
*Gargi Jani, MS**; *William Belcher, PhD**
- 11:30 am – 1:00 pm **A101** **Applying Multidisciplinary Methods to Forensic Casework in North Carolina**
*Carolina Nicole Long, MSCJ**; *Devin Williams, MA*; *Ann Ross, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A102** **To Scan or to Slice: A Holistic Investigation of One of Florida’s Oldest Unsolved Murders**
*Olivia Loveridge, BS**; *Micki Besse, MS*; *Savanna Agilar, MS*; *Heather Walsh-Haney, PhD*; *Russell Vega, MD*
- 11:30 am – 1:00 pm **A103** **Three-Dimensional Research on Ancient Skeletons of South Korea With Computed Tomography**
*Dong-Ho Kim, PhD**; *Ji-Hyun Lee, BA*; *Dae-Kyoon Park, MD, PhD*; *Yi-Suk Kim, MD, PhD*; *Sang-Seob Lee, PhD*
- 11:30 am – 1:00 pm **A104** **Demographic Timelines: Postmortem Data and Structural Violence in the Southeastern United States**
*Elise Adams, MA**; *Jesse Goliath, PhD*
- 11:30 am – 1:00 pm **A105** **Demographic Trends in Resolution of Adult Skeletal Cases in the National Missing and Unidentified Persons System From 2020 to 2024**
*Valerie Sgheiza, PhD**
- 11:30 am – 1:00 pm **A106** **Comparing Antemortem Trauma Prevalence and Reporting Frequency in Unidentified Migrants Compared to a Non-Migrant Sample: A Pilot Study for Identification Purposes**
*Victoria Soto, MA**; *Kate Spradley, PhD*
- 11:30 am – 1:00 pm **A107** **Gendered Language Use in Forensic Science Publications (2003–2023)**
*Samantha McCrane, PhD**; *Ella Tartsa*; *Amy Michael, PhD*
- 11:30 am – 1:00 pm **A108** **Technology You Can Stand On: Skeletal Changes in Human Remains With Lower Extremity Orthopedic Prostheses**
*Savanna Agilar, MS**; *Micki Besse, MS*; *Heather Walsh-Haney, PhD*
- 11:30 am – 1:00 pm **A109** **Evaluating Cortical Bone Structural Variation in Association With Activity Level**
*Shelby Garza, MA**
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A110** **WITHDRAWN**

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- 11:30 am – 1:00 pm **A111** **A Preliminary Comparison of Fracture Characteristics Between Fleshed and Defleshed Human Tibiae**
*Angela Harden, PhD**; *Christopher Goden, MA*; *Yun-Seok Kang, PhD*; *Kyra Stull, PhD*;
Amanda Agnew, PhD
- 11:30 am – 1:00 pm **A112** **A Preliminary Evaluation of Reliability in Long Bone Fracture Classification Methods Among Observers**
*Christopher Goden, MA**; *Amanda Agnew, PhD*; *Emma Brzezinski, MA*; *Julia McGinley*;
Angela Harden, PhD
- 11:30 am – 1:00 pm **A113** **Investigating Differences in Methodological Approaches to Scoring Fracture Angle, Outline, and Surface**
*Carter Unger, MA**; *Mariyam Isa, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A114** **Taphonomic Change in Fracture Characteristics of Porcine Long Bones in the Sonoran Desert During the Summer**
*Kaitlyn Fulp, MA**; *Emelia Jensen, BS*; *Sophia Sedlacek, BS*; *Katelyn Bolhofner, PhD*
- 11:30 am – 1:00 pm **A115** **Distribution Patterns of Trauma by Event Type: Examining the Differences Between Trauma Distributions of Decedents in Different Traumatic Events**
*Petra Banks, PhD**
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A116** **Is It All the Fault of a Fist? Forensic Reconstruction in a Case of “Imperfect” Skull Fractures**
*Enrica Macorano, MD**; *Giovanni De Gabriele, MD*; *Alessandro Cristalli, MD*;
Angela Colucci, MD; *Sara Di Trani, MD*; *Francesco Introna, MD, PhD*
- 11:30 am – 1:00 pm **A117** **Characterizing Entrance Wounds From Gunshot Trauma in Tubular Bones: Comparing Handgun and Rifle Ammunition**
*Alexandra Semma Tamayo, MS**; *Laure Spake, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **A118** **Exploring Inter-Observer Agreement in Assessments of Projectile Defects**
*Mariyam Isa, PhD**; *Delaney Edwards, MA*; *Jordyn Knysz, BA*; *Alexander Curry, BA*
- 11:30 am – 1:00 pm **A119** **The Validation of 3D Photogrammetry Models to Document Cranial Trauma**
*Samantha LaVake, BS**; *Carolyn Isaac, PhD*
- 11:30 am – 1:00 pm **A120** **Enhancing Forensic Investigations: Leveraging Transfer Learning for Cut Mark Classification on Skeletal Remains**
*Giada Steiger, MS**; *Ricardo Chavez Garcia, PhD*; *Matteo Borrini, PhD*
- 11:30 am – 1:00 pm **A121** **Cutting Edge Comparisons: Analyzing Saw Kerf Variables in Bones Versus Casts**
*Alexis VanBaarle, MS**; *Heather Garvin, PhD*
- 11:30 am – 1:00 pm **A122** **Testing Bias in Cut Mark Analysis: An Exploratory Study**
*Karin Dominko, MS**; *Giada Steiger, MS*; *Matteo Borrini, PhD*

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Friday

Biological Profile Part I: Population Affinity and Craniometrics

Moderator: Katharine Kolpan, PhD

Co-Moderator: Alex Denning, MSc

- 8:00 am – 8:15 am **A123** **Assessing Cranial Macromorphoscopic Traits Used in the Forensic Estimation of Population Affinity**
*Savannah Holcombe, MS**; *Joe Hefner, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 8:15 am – 8:30 am **A124** **Exploring Cranial Macromorphoscopic Variation in a Modern American Indian Sample From New Mexico**
*Kelly Kamnikar, PhD**; *Nicollette Appel, MS*; *Micayla Spiros, PhD*; *Hannah Cantrell, BS*; *Heather Edgar, PhD*
- 8:30 am – 8:45 am **A125** **Patterns of Covariation in Cranial Metric and Macromorphoscopic Variables**
*Briana New, MA**; *Kyra Stull, PhD*; *Joe Hefner, PhD*; *Kate Spradley, PhD*; *Leah Auchter, MA*; *Elaine Chu, PhD*; *Louise Corron, PhD*; *Matthew Go, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 8:45 am – 9:00 am **A126** **Exploring Population Affinity Analysis for Forensic Anthropology Casework in Latin America**
*Kelly Kamnikar, PhD**; *Daniel Jimenez Gaytan, MS*; *Amber Plemons, PhD*; *Joe Hefner, PhD*
- 9:00 am – 9:15 am **A127** **AI-Assisted Technological Advancements for the Collection of Cranial Landmark Data and Interlandmark Distances From Medical Imaging Software**
*Nicollette Appel, MS**; *Kelly Kamnikar, PhD*; *Kate Spradley, PhD*; *Heather Edgar, PhD*
- 9:15 am – 9:30 am **BREAK**

Biological Profile Part II: Sex, Age, and Stature

Moderator: Kaleigh Best, PhD

Co-Moderator: Chastidy Gilbert, BA

- 9:30 am – 9:45 am **A128** **An Evaluation of the Accuracy and Reliability of MorphoPASSE for Skeletal Sex Estimation Using the University of Tennessee Donated Collection**
*Derek Boyd, PhD**; *Kylie Williamson, PhD*; *Steven Lautzenheiser, PhD*; *Emma Pullias, BA*; *Devin Adcox, MA*
- 9:45 am – 10:00 am **A129** **The Application of Decision Trees and Random Forest Modeling for Combining Morphological and Metric Variables of the Skull for Osteological Sex Estimation**
*Morgan Ferrell, PhD**; *John Schultz, PhD*; *Donovan Adams, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 10:00 am – 10:15 am **A130** **The Application of Non-Metric Sex Estimation Methods to Virtual 3D Cranial Models**
*Marion Davidson, MS**; *Conner Welty, MS*; *Sherry Nakhaeizadeh, PhD*; *Ruth Morgan, DPhil*
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 10:15 am – 10:30 am **A131** **Evaluating Subadult Age Estimation Methods From Long Bones Using a Contemporary Japanese Sample**
*Elaine Chu, PhD**; *Amariah Treviño, BS*

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10:30 am – 10:45 am	A132	Variables Impacting the Application of Radiographic Age Estimation by Pulp/Tooth Ratios <i>Cirillo Laura, PhD*</i> ; <i>Katie Skorpinski, PhD</i>
10:45 am – 11:00 am	A133	A Multifactorial Method of Age Estimation in the Living From Computed Tomography (CT) Scans <i>Frankie Dunn, MS*</i> ; <i>Lyle Konigsberg, PhD</i>
11:00 am – 11:15 am	A134	Applying Deep Learning Methods to Adult Age Estimation of Pelvic Joints <i>Krista Bennett, MA*</i> <i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>
11:15 am – 11:30 am	A135	A Comparison of Regression Analysis and Mathematical Methods for Stature Estimation From Upper Limb Anthropometric Measurements in the Modern South Indian Population <i>Ambika Patra, MD*</i> ; <i>Shashank Singh, MD</i>
11:30 am – 1:00 pm		BREAK

Internal Standards and External Perceptions of Forensic Anthropology

Moderator: Alice Gooding, PhD

Co-Moderator: Caroline Znachko, MA

1:00 pm – 1:15 pm	A136	Forensic Anthropology in China: History and Current Status <i>Qun Zhang, PhD*</i>
1:15 pm – 1:30 pm	A137	The Progress in Standards Development in Forensic Anthropology: Updates From the OSAC and ASB <i>Julie Fleischman, PhD*</i> ; <i>Eric Bartelink, PhD</i>
1:30 pm – 1:45 pm	A138	The Roaring 20s: A 20-Year Review of a Forensic Anthropologist's Casework That Spans Pre-and Post-ABFA Certification <i>Micki Besse, MS*</i> ; <i>Savanna Agilar, MS</i> ; <i>Heather Walsh-Haney, PhD</i>
1:45 pm – 2:00 pm	A139	WITHDRAWN
2:00 pm – 2:15 pm	A140	Community Experiences of Forensic Anthropological Work in Human Rights Settings: A Case Study of El Mozote <i>Biannet Perez, MA*</i> ; <i>Laure Spake, PhD</i>
2:15 pm – 2:30 pm	A141	Rated or Ratioed? Using Open-Source Software to Investigate Public Perception of Human Taphonomy Facilities on Social Media Platforms <i>Anna Williams, PhD*</i> ; <i>Xenia-Paula Kyriakou, PhD</i> ; <i>Kelda Stagg, MS</i> ; <i>Martin Bateman, PhD</i>
2:30 pm – 2:45 pm	A142	An Exploratory Study of Human Skeleton Sales on E-Commerce Platforms and Social Media <i>Kaitlyn Glavee, BA*</i> ; <i>Krista Latham, PhD</i>
2:45 pm – 3:00 pm		BREAK

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Technology in Forensic Anthropological Research and Training

Moderator: Donna Boyd, PhD

Co-Moderator: Anthony Lanfranchi, MS

- 3:00 pm – 3:15 pm **A143** **Expanding the Forensic Anthropology Database for Assessing Methods Accuracy (FADAMA): Standardizing Case Management Systems, Real-Time Reliability Metrics, and Promoting Training Accessibility**
*Cris Hughes, PhD**; *Chelsey Juarez, PhD*; *An-Di Yim, PhD*; *Runzhao Hu*; *Matthew Berry, MS*; *Fangyu Zhou, MDes*; *Jackson Vaughan, BS*
- 3:15 pm – 3:30 pm **A144** **Advancements in the Accessibility of AI and Large Language Models (LLM) Tools Can Assist in the Development of State-of-the-Art Models in Forensic Sciences: Examples From Forensic Anthropology**
*Jerković Ivan, PhD**; *Željana Bašić, PhD*; *Ivana Kružić, PhD*
- 3:30 pm – 3:45 pm **A145** **Establishing a Protocol for Machine Learning Applications in Forensic Anthropology**
*Eman Faisal, MS**; *Tracy Rogers, PhD*
- 3:45 pm – 4:00 pm **A146** **Testing the Effectiveness of Virtual Reality Training in Teaching Mass Fatality Response**
*Jade De La Paz, PhD**; *Charlotte King, PhD*; *Ivett Kővári, PhD*
- 4:00 pm – 4:15 pm **BREAK**

Considerations for Research With Human Remains and Their Proxies

Moderator: Elias Kontanis, PhD

Co-Moderator: Carter Unger, MA

- 4:15 pm – 4:30 pm **A147** **Investigating Sample Bias in United States-Based Documented Skeletal Collections**
*Rhian Dunn, MS**
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 4:30 pm – 4:45 pm **A148** **Biomechanical Testing of Non-Human Analogs Used in Skeletal Trauma Research**
*Lillian Antonelli, MA**
- 4:45 pm – 5:00 pm **A149** **Proposing Sustainable and Cruelty-Free Proxies for Bones in Cut Marks Analysis**
*Matteo Borrini, PhD**; *Beth Lawrence-Skitch, MS*; *Giada Steiger, MS*
- 5:00 pm – 5:15 pm **A150** **Ethics Around the Creation and Use of 3D-Printed Human Remains in Crime Reconstruction: Toward the Ethical Use of Technology in Forensic Anthropology**
*Rachael Carew, PhD**; *Ruth Morgan, DPhil*; *James French, PhD*
- 5:15 pm – 5:30 pm **A151** **A Water-Cooled Probe Thermocouple System for Accurate Temperature Measurements in Human Donors During Forensic Fire-Death Scenarios**
*David Silveira, MS**; *Arielle Sperber, BA*; *Ashley Kendell, PhD*; *Beth Shook, PhD*