

# ANTHROPOLOGY

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## Thursday

### Poster Session

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- 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**     **Forensic Age Progression as a Support for the Search for Missing Persons: A Test of the Accuracy of the Aging Method**  
*Laura Donato\**; *Rossana Cecchi, MD, PhD*; *Luigi Tonino Marsella*;  
*Michele Treglia, MD, PhD*; *Valentina Bugelli, MD, PhD*; *Douglas Ubelaker, PhD*
- 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 Borrayo, 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

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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

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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	<b>A50</b>	<b>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</b> <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	<b>A51</b>	<b>The “Missing Migrant”: Schrodinger’s Cat of Legal Status and Applicable Frameworks</b> <i>Skylar Joseph, MS*</i>
11:30 am – 1:00 pm		<b>BREAK</b>

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

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Moderator: Rachael Carew, PhD

Co-Moderator: Donovan Adams, PhD

1:00 pm – 1:15 pm	<b>A52</b>	<b>A Brief Introduction to Artificial Intelligence in Forensic Anthropology: Core Concepts and Ideas</b> <i>Thomas A. Delgado, MA*</i> ; <i>Taylor Flaherty, MS</i> ; <i>Samantha Blatt, PhD</i>
1:15 pm – 1:30 pm	<b>A53</b>	<b>3D Biological Profile: The Application of 3D (STL) Models of Skeletal Remains to Assist With Human Identification</b> <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	<b>A54</b>	<b>Using Artificial Intelligence to Automate Human Stage of Decay Identification</b> <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	<b>A55</b>	<b>Forensic Comparative Radiography Using Transformer-Based Neural Networks and Large Language Models</b> <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	<b>A56</b>	<b>Applying Machine Learning Methods to Age Estimation in Forensic Anthropology—From Glass Box to Black Box</b> <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	<b>A57</b>	<b>The Potential Applications and Uses of Neural Radiance Fields (NeRF) and Gaussian Splats: Artificial Intelligence in Forensic Anthropology</b> <i>Katharine Kolpan, PhD*</i> ; <i>Jeffrey Vadala, PhD</i>
2:30 pm – 2:45 pm	<b>A58</b>	<b>Machine Learning and Artificial Intelligence in Forensic Anthropology: Ethical Considerations, Challenges, and Future Applications</b> <i>Sherry Nakhaeizadeh, PhD*</i> ; <i>Micayla Spiros, PhD*</i>
2:45 pm – 3:15 pm		<b>Discussion and Q&amp;A</b>
3:15 pm – 3:30 pm		<b>BREAK</b>

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## Refining Methods in Taphonomy and Trauma

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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 Kendall, 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

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## Technologies of Reconstruction and Identification

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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**     **The Intra- and Inter-Observer Reliability in Morphological Extractions of the Maxillofacial Region**  
*Teresa Runge, PhD\**; *Matteo Borrini, PhD*
- 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**

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## Case Studies and Lessons in Identification

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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*
- 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\**; *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 Crashscapes: 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

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- 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*



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- 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*
- 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 Taphonomically 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**  
*Morgha 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\**



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- 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)
- 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**  
*William Belcher, PhD\**; *Gargi Jani, MS*
- 11:30 am – 1:00 pm     **A101**     **Applying Multidisciplinary Methods to Forensic Casework in North**  
*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*

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- 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**     **The Utility of Low-Resolution Imaging in the Assessment of a Decedent’s Activity Level and Body Mass**  
*ChristiAna Dunham, MS\*; Elaine Chu, PhD; Adam Sylvester, PhD*  
*(FSF Emerging Forensic Scientist Award Poster Presentation)*
- 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*

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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*

## Friday

### Biological Profile Part I: Population Affinity and Craniometrics

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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\*; Nicolette 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**  
*Nicolette 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

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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)*

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10:15 am – 10:30 am	<b>A131</b>	<b>Evaluating Subadult Age Estimation Methods From Long Bones Using a Contemporary Japanese Sample</b> <i>Elaine Chu, PhD*</i> ; <i>Amariah Treviño, BS</i>
10:30 am – 10:45 am	<b>A132</b>	<b>Variables Impacting the Application of Radiographic Age Estimation by Pulp/Tooth Ratios</b> <i>Cirillo Laura, PhD*</i> ; <i>Katie Skorpinski, PhD</i>
10:45 am – 11:00 am	<b>A133</b>	<b>A Multifactorial Method of Age Estimation in the Living From Computed Tomography (CT) Scans</b> <i>Frankie Dunn, MS*</i> ; <i>Lyle Konigsberg, PhD</i>
11:00 am – 11:15 am	<b>A134</b>	<b>Applying Deep Learning Methods to Adult Age Estimation of Pelvic Joints</b> <i>Krista Bennett, MA*</i> <i>(FSF Emerging Forensic Scientist Award Oral Presentation)</i>
11:15 am – 11:30 am	<b>A135</b>	<b>A Comparison of Regression Analysis and Mathematical Methods for Stature Estimation From Upper Limb Anthropometric Measurements in the Modern South Indian Population</b> <i>Ambika Patra, MD*</i> ; <i>Shashank Singh, MD</i>
11:30 am – 1:00 pm		<b>BREAK</b>

## Internal Standards and External Perceptions of Forensic Anthropology

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Moderator: Alice Gooding, PhD

Co-Moderator: Caroline Znachko, MA

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

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## Technology in Forensic Anthropological Research and Training

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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*
- 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**

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## Considerations for Research With Human Remains and Their Proxies

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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*