ANTHROPOLOGY

Wednesday

Poster Session

11:30 am – 1:00 pm	**A1**	**A Pilot Assessment of Acetabular Morphology for Age Estimation Using CT Data From a Rural Wisconsin Population** Cassie G. Kniess, APM* *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A2**	**An Estimation of Age at Death in the Moroccan Population Using the Sternal End of the Fourth Rib: A Validation and Population-Specific Calibration of the İşcan Method** Hind Abouzahir, PhD*
11:30 am – 1:00 pm	**A3**	**Age-at-Death Estimation by Cementochronology: A Bayesian Calibration Framework for Probabilistic Inference** Benoit Bertrand, PhD*; David Navega, PhD; Carina Marques, PhD
11:30 am – 1:00 pm	**A4**	**An FTIR/ATR Analysis of Human Femoral Bone for Age-at-Destimation: The Index Performance and Between-Collection Variation Across Five Donated Skeletal Collections** Anna Katharina K. Maier, MSc*; Nicholas P. Herrmann, PhD
11:30 am – 1:00 pm	**A5**	**Bonepihist: Identifying Variables for Age-at-Death Estimation in Fragmentary Remains** Victoria M Dominguez, PhD*; Sara C. Zapico, PhD*; Varun Dwaraka, PhD; Ryan Smith, BA
11:30 am – 1:00 pm	**A6**	**Modern Health Crises, Dental Development, and Forensic Age Estimation** Ben Wigley, PhD*
11:30 am – 1:00 pm	**A7**	**A Holistic Perspective for Considering Bone Quality in the Context of Drug-Use During Anthropological Age Estimation** Jennifer K. Odien, PhD*; Justin Z. Goldstein, PhD; Gail Cooper, PhD; Tiffany Lin, MD; Helen S. Alesbury, MA
11:30 am – 1:00 pm	**A8**	**The Impact of Substance Use on Pubic Symphysis Age Estimation** Emily S. Tarbet Hust, MA*
11:30 am – 1:00 pm	**A9**	**The Impact of Substance Use on Skeletal Age Estimation in a Contemporary South-Central United States Population** Alexandra L. Aaberg, MA*
11:30 am – 1:00 pm	**A10**	**Patterned Variation in Discrepancies Between Biological and Chronological Age: Implications for Forensic Anthropology** Nicollette S. Appel, PhD*; Heather Edgar, PhD
11:30 am – 1:00 pm	**A11**	**Building a Collection-Specific Morphological Sex Estimation Model** Luke Massongill, BA*; Elaine Y. Chu, PhD; Nicholas P. Herrmann, PhD
11:30 am – 1:00 pm	**A12**	**Investigating the Predictive Value and Scoring Reliability of 13 Pelvic Traits for Skeletal Sex Estimation** Alexandra R. Klales, PhD*; Kate M. Lesciotto, PhD
11:30 am – 1:00 pm	**A13**	**How Hormone Replacement Therapy (HRT) Affects Sex Estimation Techniques in Forensic Anthropology** Dakota L. Taylor, MA*

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11:30 am – 1:00 pm	**A14**	**Secular Trends in Distal Humerus Morphology and its Implications for Sex Estimation Methods** Sarah E. Bramlett, BS*; Paul Emanovsky, PhD
11:30 am – 1:00 pm	**A15**	**Sex Estimation of Cremated Human Remains: A Test of Three Methods on the UTK Donated Collection** Lillian Hammer, BA*
11:30 am – 1:00 pm	**A16**	**When Confidence Exceeds Signal: Evaluating MorphoPASSE Posterior Probabilities in Morphoscopic Sex Estimation** Mackenzie A. Burns*; Joseph T. Hefner, PhD
11:30 am – 1:00 pm	**A17**	**Exploring Covariation Between Metrics and Morphological Traits of the Innominate** Carter A. Unger, MA*; Kate M. Lesciotto, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A18**	**Testing the Utility of Cranial Angle Measurements in Estimating Sex and Population Affinity** Lauren A. Keith, BS*; Elaine Y. Chu, PhD; Nicholas P. Herrmann, PhD; Joseph T. Hefner, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A19**	**A Comparison of Population Affinity Estimations Generated by rASUDAS, FoRDent, and Standard Skeletal Methods** Sydney Martin, MS; Kathleen Hauther, PhD; Rebecca J. Taylor, PhD*
11:30 am – 1:00 pm	**A20**	**Estimating Population Affinity Using MaMD Analytical of an African American Population Using CT-Rendered Crania From the New Mexico Decedent Image Database** Kloey Crist, MSc*; Julieta G. Garcia-Donas Gómez García Donas, PhD
11:30 am – 1:00 pm	**A21**	**Investigating Cranial Variation at the CEAF-UFPE Collection in Brazil Using Geometric Morphometrics and a Quantitative Genetics Approach** Bianca Schueng Zancanela, MSc*; Elisabeth Cuerrier-Richer, PhD; Nicholas P. Herrmann, PhD; Elaine Y. Chu, PhD; Melina Calmon, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A22**	**Beyond Measurements: Integrating Metric and Morphoscopic Cranial Analyses for Population Affinity Estimation** Abigail Paul, BS*; Paige Roberts, BS; Micki Besse, MS; Savanna D. Agilar, MS; Heather A. Walsh-Haney, PhD
11:30 am – 1:00 pm	**A23**	**Evaluating the Accuracy of Biological Profile Estimation in Identified Contemporary North Carolina Forensic Cases** Devin N. Williams, MA*; Anelis Diaz, MA; Ann H. Ross, PhD
11:30 am – 1:00 pm	**A24**	**Observer Error Statistics in Forensic Anthropology From 1972 to 2026** Paige Lynch, PhD*; Kate M. Lesciotto, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A25**	**A Multigenerational Trail: Comparing Osteological Stress Markers of Latin American Individuals to United States-Born Latin Americans** Zindy Cruz, MA*; Donovan M. Adams, PhD
11:30 am – 1:00 pm	**A26**	**Comparing Cortical Bone Properties and Thickness in the Proximal Tibia Between Obese and Moderate BMI Groups** Harper E. Powell, MA*; Elaine Y. Chu, PhD; Daniel J. Wescott, PhD; Nicholas P. Herrmann, PhD

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11:30 am – 1:00 pm	**A27**	**Quantifying Intracortical Porosity and the Bone's Cellular Network: Ten Years of Biomedical and Anthropological Discovery Using the Andronowski Skeletal Collection for Histological Research** Janna M. Andronowski, PhD*; Joshua T. Taylor, MSc*; Mary E. Cole, PhD; Gina R. Tubo, MD; Hannah Stephen, DO; Shreya S. Hande, BSc; Sydney Q. Chizmeshya, MSc; Logan Usher, PAC
11:30 am – 1:00 pm	**A28**	**Paget's Disease of Bone in the Forensic Context: Macroscopic and Radiological Presentation** Jessica Lucia, MS*; Kate Freakley, MS*; Amanda R. Hale, PhD; Wendy M. Gunther, MD
11:30 am – 1:00 pm	**A29**	**Testing a Manual Histological Method to Visualize the Neonatal Line as an Indicator of Live Birth in Skeletal Remains** Elizabeth L. Reilly*; Amanda R. Hale, PhD
11:30 am – 1:00 pm	**A30**	**An Unusual Case of Antemortem Perichondrial Ossification of a Non-Ossified Cricoid Cartilage** Samantha M. McCrane, PhD*; Michala K. Stock, PhD; Paul E. Morse, PhD; Phoenix Farnham, BA; Sophia Henn, BA; Jeanell Varnadore, BA; Allysha P. Winburn, PhD; Deanna A. Oleske, MD
11:30 am – 1:00 pm	**A31**	**Total Vertebral Column Length: Which Vertebra Is the Best Predictor?** Samantha L. LaVake, BS*; Yangseung Jeong, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*

Thursday

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11:30 am—1:00 pm	**A54**	**A Comparison of Maceration Techniques for the Analysis of Cut Marks on Porcine Remains** Livia Jo S. Dunster, BSc*; Giada S. Steiger, MSc; Jessica H. Brady, BSc; Matteo Borrini, PhD; Satu Valoriani, PhD*
11:30 am—1:00 pm	**A55**	**An Experimental Approach for Saw Mark Analysis on Skeletal Remains Using Photogrammetric Data** Dylan Beerman, BS*; Paul Emanovsky, PhD
11:30 am—1:00 pm	**A56**	**From Soft Tissue Removal to Evidence Alteration: The Impact of Maceration on Experimental Saw Marks** Jessica H. Brady, BSc*; Giada S. Steiger, MSc; Livia Jo S. Dunster, BSc; Matteo Borrini, PhD; Satu Valoriani, PhD*
11:30 am—1:00 pm	**A57**	**Are We Studying the Right Bones? Comparing Experimental Bone Selection With Clinical Injury Patterns in Sharp Force Trauma Research** Isobel Knight, MSc*; Satu Valoriani, PhD; Suzzanne M. McColl, PhD; Matteo Borrini, PhD
11:30 am—1:00 pm	**A58**	**Stab Wounds After Desiccation: The Effects of Mummification on Sharp Force Trauma Interpretation** Tegan Daykin, MSc*; Matteo Borrini, PhD
11:30 am—1:00 pm	**A59**	**A Characterization of Laryngohyoid Complex Injuries Following Blunt Neck Trauma: A Five-Year Retrospective Review at the West Tennessee Regional Forensic Center** Helen M. Gillespie, BA*; Diana Messer, PhD; Ibrahim Ortanca, MD

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11:30 am—1:00 pm	**A60**	**Examining Trends in Laryngeal Structure Fractures and Evaluating the Utility of CT in Potentially Ruling Out Trauma in HCIFS Casework** Theresa De Cree, MS*; Julie M. Fleischman, PhD; Miriam E. Soto Martinez, PhD; Jason M. Wiersema, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am—1:00 pm	**A61**	**An Analysis of Skull Trauma in Females With Accidental and Homicidal Deaths and an Examination of Trends Associated With Intimate Partner Violence Using the New Mexico Decedent Image Database** Sara Medeiros*; Theresa De Cree, MS
11:30 am—1:00 pm	**A62**	**A Skeletal Atlas of Elder Abuse: Fracture Patterns in Documented Cases in Clark County, Nevada, and a Comparison to Prior Results From Maricopa County, Arizona** Laura Fulginiti, PhD*; Jacob A. Harris, PhD*; Katelyn L. Bolhofner, PhD*
11:30 am—1:00 pm	**A63**	**A Preliminary Analysis of Intimate Partner Homicides in Southern Nevada** Anna C. Stolz, BS*; Jennifer F. Byrnes, PhD
11:30 am—1:00 pm	**A64**	**Fractures Versus Sutures: A Histological Study of Human Cranial Trauma** Evin R. Hessel, MS*; Carolyn V. Isaac, PhD; Jered B. Cornelison, PhD
11:30 am—1:00 pm	**A65**	**Trauma Patterns and Distribution of a Human Skeleton Impacted by an Industrial Lawnmower** Justin R. Maiers, MS*; Sarajane Smith, MA; Jonathan D. Bethard, PhD; Carolina McEnnan, MD
11:30 am—1:00 pm	**A66**	**Healing After Death: An Examination of Time Since Injury in Organ Procurement Cases** Hailee M. Desrosier, MS*; Carolyn V. Isaac, PhD; Evin R. Hessel, MS
11:30 am—1:00 pm	**A67**	**A Comparison of Bone Color and Maximum Temperature in Burned Human Remains** Kari Helgeson, MA*; Mariah E. Moe, PhD; Nicholas P. Herrmann, PhD
11:30 am—1:00 pm	**A68**	**A Fractographic Investigation of Thermally Altered Blunt Force Trauma: An Examination of the Survivability of Fractographic Features and Their Use in Differentiating Trauma From Thermal Alteration** Samantha R. Robinson, MA* *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am—1:00 pm	**A69**	**The Macroscopic Effects of Repeated Freeze-Thaw Cycles on Fractured and Non-Fractured Porcine Rib Bones** Gabriella D.K. Bell*; Jessica K. Juarez, PhD
11:30 am—1:00 pm	**A70**	**Assessing Taphonomic Features of Human Skeletal Remains From the Hillsborough County Medical Examiner Office (District #13) to Determine Forensic Significance** Sarajane Smith, MA*; Justin R. Maiers, MS; Jonathan D. Bethard, PhD; Carolina McEnnan, MD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am—1:00 pm	**A71**	**Assessing Inter-Observer Reliability of geoFOR Using Retrospective Decomposition Data** Victoria A. Eacott, BA*; Tempest D. Mellendorf, MS; Sydney Munkus, MA *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am—1:00 pm	**A72**	**Decomposition in Differing Micro-Topographic Environments** Lena Manzo*; Kaleigh C. Best, PhD
11:30 am—1:00 pm	**A73**	**Intra-Body Variation in Decomposition in Louisiana** Ginesse Listi, PhD*

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11:30 am—1:00 pm	**A74**	**The Effect of Seasonally Appropriate Clothing on Human Decomposition in a Semi-Arid Environment** Rhone K. Peterson, BA*; Amanda Martinez*; Alexander J. Smith, BA; Christiane I. Baigent, PhD
11:30 am—1:00 pm	**A75**	**The Effect of Upright Seated Position on Human Decomposition in a Semi-Arid High Desert Environment** Payton Bailey*; Christiane I. Baigent, PhD; Alexander J. Smith, BA
11:30 am—1:00 pm	**A76**	**Winter Decomposition Dynamics in Northern Arizona: A Porcine Comparison With Western United States Taphonomy Research Facilities** Megan R. Cramer*; Kylette A. Garcia*; Abigail A. Alia; Hillary L. Eaton, PhD; Jacob A. Harris, PhD; Katelyn L. Bolhofner, PhD
11:30 am—1:00 pm	**A77**	**The Geography of Decomposition: How Far Can PMI Models Travel?** Fiona Baker, BA*; Micki Besse, MS; Amy Pham, MS; Savanna D. Agilar, MS; Heather A. Walsh-Haney, PhD
11:30 am—1:00 pm	**A78**	**The Persistence of External Dorsal Hand Features During Early Decomposition: A Pilot Study** Sharon Whinston*; Jaideo Singh; Cheyanne R. Dodds, BS; Amanda L. Joslyn, MS; Jane C. Harris, PhD
11:30 am—1:00 pm	**A79**	**A Systematic Review of Game Camera Reporting Practices in Forensic Scavenging Research** Hayden S. McKee-Zech, PhD; Mackenzie Vial*
11:30 am—1:00 pm	**A80**	**The Skeletal Effects of Scavenging by the American Striped Skunk (*Mephitis Mephitis*)** Meredith Willis*; Jane C. Harris, PhD
11:30 am—1:00 pm	**A81**	**The Distribution of Perimortem Trauma and Vulture Scavenging Across the Skeleton** Tuesday M. Frasier, PhD*; Erin H. Kimmerle, PhD
11:30 am—1:00 pm	**A82**	**Beneath the Bite: A Forensic Interpretation of Alligator-Related Skeletal Trauma and Postmortem Change** Mariah Zarria, BS*; Micki Besse, MS; Savanna D. Agilar, MS; Lucy M. Papp, PhD; Heather A. Walsh-Haney, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am—1:00 pm	**A83**	**Geochemical Indicators in Grave Soil: A Geoforensic Perspective on Taphonomy and Clandestine Graves** Zachary C. Kurschner, MSc*; Xenia Kyriakou, PhD; Rebecca L. George, PhD; Anna Williams, PhD; Nora Kane, BS; Jenna J. Meece, BArch; Shana L. Cavanaugh, BS

ANTHROPOLOGY

Thursday—Session I

Age Estimation: Adult and Transitional Methods

Moderator: Donna C. Boyd, PhD — Co-Moderator: An-Di Yim, PhD

8:30 am – 8:45 am	**A32**	**Two Systems, One Joint: Combining Complementary MRI Staging Systems Improves Probabilistic Forensic Age Estimation at the Proximal Humerus** Marine Dario, MBBS*; Oguzhan Ekizoglu, MD, PhD; Catherine Cyteval, MD, PhD; Sophie Colomb, MD, PhD; Maxime Pastor, MD; Laurent Martrille, MD, PhD
8:45 am – 9:00 am	**A33**	**Age Estimation Range Accuracy in Identified Casework at the NYC Office of Chief Medical Examiner** Justin Z. Goldstein, PhD*; Jennifer K. Odien, PhD; Angela Soler, PhD
9:00 am – 9:15 am	**A34**	**Examining Major Joint Complexes to Determine Which Osteoarthritic Traits Are Useful Age Predictors** Caroline C. Jasiak, MA*; Sarah E. Freidline, PhD; John J. Schultz, PhD
9:15 am – 9:30 am	**A35**	**Forensic Age Estimation Around the 18-Year Threshold Using the Cameriere Score of the Knee Joint Method: Diagnostic Performance, Population Variation, and Imaging Considerations** Burak Karip, PhD*; Seda Kotan, PhD; Roberto Cameriere, PhD
9:30 am – 9:45 am	**A36**	**A Validation of the Combined Revision of the Hartnett Methods** Erin A. Patrick, MSc*; Christine Bailey, MA; Joanne Devlin, PhD; Giovanna Vidoli, PhD
9:45 am—10:00 am		**BREAK**

Variation in Biological Profile Estimation

Moderator: Kaleigh Best, PhD — Co-Moderator: Eliana Gutierrez, MA

10:00 am – 10:15 am	**A37**	**Pelvic Anomalies Differentially Affect Age-Indicative Features and Accuracy of Pubic Symphysis and Auricular Surface Age Estimations** Krista E. Bennett, PhD*; Christopher M. Goden, PhD
10:15 am – 10:30 am	**A38**	**A CT-Based Sex Estimation From the Patella: Comparing Anatomical Size and Deep Learning for Postmortem Human Identification** Vinko Bubić, MD; Iva Perić, MD; Marija Jurić Gunjača, MD, PhD; Krešimir Dolić, APM; Vinko Vidjak, PhD; Fabrice Dedouit, PhD; Željana Bašić, PhD*; Ivan Jerković, PhD
10:30 am – 10:45 am	**A39**	**Group-Specific Patterns of Cranial Non-Metric Trait Expression and Sex Estimation Accuracy in a Contemporary Taiwanese Sample** Kaden Koch*; Mary Kate Placencia, BA*; Matthew Farley, MS; An-Di Yim, PhD
10:45 am – 11:00 am	**A40**	**An Exploratory Analysis of Decision-Making in Population Affinity Estimation Among Forensic Anthropology Practitioners in the United States** Matthew Farley, MS*; An-Di Yim, PhD *(FSF Emerging Forensic Scientist Award Oral Presentation)*

11:00 am – 11:15 am	**A41**	**Correspondence Between Craniometric and Macromorphoscopic Observations Derived From Postmortem CT Scans and Skeletal Remains** Nicollette S. Appel, PhD*; Kelly R. Kamnikar, PhD; Jasmine R. Hernandez, MS; Esteban Rangel, MS; Heather Edgar, PhD *(FSF Emerging Forensic Scientist Award Oral Presentation)*
11:15 am – 11:30 am	**A42**	**A Modular Coefficient-Based Formula for Population-Specific Facial Soft Tissue Thickness Estimation in Forensic Facial Approximation** Jagmahender Singh Sehrawat, PhD*
11:30 am—1:30 pm		**BREAK**

Patterns and Mechanisms of Skeletal Trauma

Moderator: Chris Goden, PhD — Co-Moderator: Arielle Zohara Sperber, MA

1:30 pm – 1:45 pm	**A84**	**A Retrospective Evaluation of Fracture Patterns in Cranial Gunshot Injuries From a Forensic Anthropological Perspective** Ilayda Sam, MD, MSc*; Yusuf Kalem, MD; Kubra Korbicak Durmus, MD
1:45 pm – 2:00 pm	**A85**	**An Evaluation of the Relationship Between Skeletal Fracture Patterns and Mechanisms of Blunt Force Trauma in Fatal Cases** Ilayda Sam, MD, MSc*; Bedirhan Sezer Oner, MD; Yusuf Atan, MD; Savas Gorgulu, MD
2:00 pm – 2:15 pm	**A86**	**Characterizing Differential Patterns of Skeletal Trauma in Growth and Development** Lillian S. Antonelli, MA*; Kyra E. Stull, PhD
2:15 pm – 2:30 pm	**A87**	**A Systematic Review of Non-Human Analog Use in Skeletal Trauma Research** Lillian S. Antonelli, MA*; Emma K. George, BA; Kyra E. Stull, PhD
2:30 pm—2:40 pm		**BREAK**

Computational and Histologic Trauma Analysis

Moderator: Amy Spies, PhD — Co-Moderator: Jazmin Borrayo, MA

2:40 pm – 2:55 pm	**A88**	**An Artificial Intelligence–Supported Analysis of Routine Forensic Photographs for Automated Differentiation of Perimortem and Postmortem Skeletal Trauma** Deren Çeker, PhD*; Cumali Çatak, MSc; Nur Baki Numan Çapar, BA; İdris Deniz, MD
2:55 pm – 3:10 pm	**A89**	**Evaluating the Utility of Hierarchical Cluster Analysis for Multivariate Tibial Shape Data in an Experimental Blunt Trauma Sample** Christopher M. Goden, PhD*; Amanda Agnew, PhD; Angela Harden, PhD *(FSF Emerging Forensic Scientist Award Oral Presentation)*
3:10 pm – 3:25 pm	**A90**	**The Application of Machine Learning to Trauma Analysis: Testing the Abilities of a Decision Tree Model to Classify Adult Cranial Blunt Force Trauma Impact Mechanisms** Natalie Tezsla, MA*

3:25 pm – 3:40 pm	**A91**	**The Development and Evaluation of a Preliminary Histology-Based Model for Estimating Cranial Fracture Time Since Injury** Alexis L. VanBaarle, MS*; Carolyn V. Isaac, PhD; Jered B. Cornelison, PhD; Theodore T. Brown, MD; Joyce L. deJong, DO; Amanda O. Fisher-Hubbard, MD; Wendy Lackey-Cornelison, PhD; Brandy L. Shattuck, MD; Joseph A. Prahlow, MD *(FSF Emerging Forensic Scientist Award Oral Presentation)*
3:40 pm—3:50 pm		**BREAK**

Emerging Imaging and Analytical Tools

Moderator: Krista Bennett , PhD — Co-Moderator: Abby Paul,

3:50 pm – 4:05 pm	**A92**	**Volumetric Deep Learning of Micro-CT Fracture Surfaces: A Novel Tool for Forensic Trauma Timing Assessment** Keivan Nalaie, PhD; Jessica Skinner, PhD; Aurely Sanchez Carreon, BS; Loukham Shyamsunder, PhD; Subramaniam Rajan, PhD; Natalie R. Langley, PhD*
4:05 pm – 4:20 pm	**A93**	**Assessing the Accuracy of Generative Artificial Intelligence in the Determination of Human From Non-Human Bone From Photographs** Rachael S. McCrary, MS*; Nicholas V. Passalacqua, PhD; Joseph T. Hefner, PhD; MariaTeresa Tersigni-Tarrant, PhD; David Resnik, PhD
4:20 pm– 4:35 pm	**A94**	**MicroCT Histology: A Comparison With Traditional Histological Identification of Human and Non-Human Bone** Laura E. Cirillo, PhD*; Justin Pyle, APM

Thursday – Session II

Decomposition Across Environments

Moderator: Christaine Baigent — Co-Moderator: Janamarie Truesdell, DPhil

8:30 am – 8:45 am	**A43**	**Desiccation Progression Under Mid-Atlantic Conditions: An Assessment of Total Body Desiccation Scores** An-Di Yim, PhD*; Emily Mahoney, BS*; Allison Bergman; Matthew Farley, MS; Mason Kalin, BS; Kaden Koch; Emily N. Powell, BS; Mary Kate Placencia, BA; Rachel Riddell, BA; Emily D. Rancourt, MFS
8:45 am – 9:00 am	**A44**	**Differential Decomposition of Buried Human Remains in Florida's Subtropical Environment** Kelsee C. Hentschel-Fey, MA*; Natalie S. Wise, MA; Erin H. Kimmerle, PhD
9:00 am – 9:15 am	**A45**	**Examining Submerged Versus Surface Transport Velocity in the Fluvial Transport of Human Remains Within the Sacramento River** Jazmin E. Borrayo, MA* *(FSF Emerging Forensic Scientist Award Oral Presentation)*
9:15 am– 9:30 am	**A46**	**Trajectories of Decay: Decomposition, Scavenger Activity, and Human Disturbance on Table Mountain, South Africa** Kirstin L. Snyckers, BSc*; Victoria Gibbon, PhD; Devin A. Finaughty, PhD

9:30 am – 9:45 am	**A47**	**An Evaluation of Haversian Canal Metrics and Cortical Thickness of a Burial-Induced Bone Preserved in a Niger Deltan Soil** Oghenefego M. Adheke, PhD; Darlington N. Onyejike, PhD*; Favour O. Erezih, PhD
9:45 am—10:00 am		**BREAK**

Scavenger Ecology and Field Monitoring

Moderator: Micayla Spiros, PhD — Co-Moderator: Esther, Choo, MA

10:00 am – 10:15 am	**A48**	**A 10-Year Characterization of Fauna at the NMU Forensic Research Outdoor Station (FROST)** Amanda L. Joslyn, MS*; Jane C. Harris, PhD
10:15 am – 10:30 am	**A49**	**A Pan-Canadian Study of Forensically Relevant Scavenger Guilds to Improve Search Protocols for Human Remains** Shari L. Forbes, PhD*; Christopher J. Watson, PhD
10:30 am – 10:45 am	**A50**	**Beyond the Trail Camera: Toward Standardized, Real-Time Integrated Monitoring of Scavenger and Decomposition Dynamics** Devin A. Finaughty, PhD*; Victoria Gibbon, PhD
10:45 am – 11:00 am	**A51**	**Optimizing Wildlife Camera Deployment for Scavenger Documentation in Forensic Anthropology** Cheyenne D. Collins, MA*; John J. Schultz, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:00 am – 11:15 am	**A52**	**Scavenging at the FSRTL: Preliminary Modeling of Time-Dependent Scavenger Behavior** Allison Bergman*; Jessica Ross, MS*; Emily D. Rancourt, MFS; An-Di Yim, PhD
11:15 am – 11:30 am	**A53**	**The Ecology of Decay: Carrion Communities and Synergistic Scavenger Interactions at the World's Largest Forensic Taphonomy Research Site** Devin A. Finaughty, PhD*; Keegan Meiring, MSc; Desiré Brits, PhD
11:30 am—1:30 pm		**BREAK**

Scavenging Signatures and Evidence

Moderator: Derek Boyd, PhD — Co-Moderator: Kelly Sauerwein, PhD

1:30 pm – 1:45 pm	**A95**	**Bioecology of the Grave: Scavenger Succession and Progression in a Controlled Study of High-Altitude Clandestine Burials** Christiane I. Baigent, PhD*
1:45 pm – 2:00 pm	**A96**	**Quantifying Skeletal Modifications Produced by Vulture Scavenging of Juvenile Pig Remains** Lauren R. Pharr-Parks, PhD*
2:00 pm – 2:15 pm	**A97**	**Unprecedented Taphonomic Alterations: Severe Winter Scavenging of Two Human Donors by *Mephitis Mephitis*** Cheyanne R. Dodds, BS*; Amanda L. Joslyn, MS; Melissa Dwello, MS; Cameron J. Koonter; Carley Leanes, MPA; Jane C. Harris, PhD; Arikka Carroll, APM

2:15 pm – 2:30 pm	**A98**	**When Canines Scavenge: A Case Study Comparing ZooMS Outcomes for Gnawed vs. Digested Human Bone** Anneke Janzen, PhD*; Andrea Palmiotto, PhD*; Kristine Korzow, PhD
2:30 pm – 2:45 pm	**A99**	**Reporting Gaps in Vertebrate Scavenging Research: The Need for Best Practice Recommendations for Data Collection, Comparison, and Documentation** Hayden S. McKee-Zech, PhD*; Erin A. Patrick, MSc; Derek A. Boyd, PhD; Kelly Sauerwein, PhD; Angela Dautartas, PhD
2:45 pm—2:55 pm		**BREAK**

Clandestine Graves: Detection and Recovery

Moderator: Cheyenne Collins, MA — Co-Moderator: Megan McDonough

2:55 pm – 3:10 pm	**A100**	**Grave Detection: Exploring Proxy Research in Forensic Geophysics** John J. Schultz, PhD*; Cheyenne D. Collins, MA; Morgan J. Ferrell, PhD
3:10 pm – 3:25 pm	**A101**	**Longitudinal Ground-Penetrating Radar (GPR) Monitoring of Clandestine Graves in Mid-Atlantic Clay-Rich Soils** Noah H. Smith, MS*; Mason Kalin, BS*; An-Di Yim, PhD
3:25 pm – 3:40 pm	**A102**	**The Search for Clandestine Graves: A Comparison of Three Geophysical Prospecting Methods** Mary C. Davis, MSc*; Joanne Devlin, PhD; Amy Z. Mundorff, PhD; William E. Doll, PhD; Miguel Vazquez, MA; Giovanna Vidoli, PhD
3:40 pm – 3:55 pm	**A103**	**Preservation vs. Yield: The Influence of Environmental Context on Forensic Skeletal Recovery** Alice Gooding, PhD*; Christopher M. Goden, PhD; Sarah Claypool, BS; MariaTeresa Tersigni-Tarrant, PhD; Natalie R. Langley, PhD

Taphonomic Methods, Proxies, and Postmortem Alteration

Moderator: Morgan Ferrell, PhD — Co-Moderator: Cheyenne Collins, MA

3:55 pm – 4:10 pm	**A104**	**Investigating the Effectiveness of Different 3D Modality Analyses of Taphonomic Changes to the Human Body** Emily N. Powell, BS*; Sydnee Campbell, BS; Mary Weldon, MS; Emily D. Rancourt, MFS; An-Di Yim, PhD
4:10 pm – 4:25 pm	**A105**	**Proxies in Practice: Exploring the Role of Non-Human Animal Proxies in Forensic Anthropological Research** Morgan J. Ferrell, PhD*; Cheyenne D. Collins, MA
4:25 pm – 4:40 pm	**A106**	**The Role of Non-Human Proxies in Microbial Decomposition Research** Sarah Cunningham, PhD*
4:40 pm – 4:55 pm	**A107**	**Postmortem Change in Chopping/Hacking Tool Marks on Porcine Bone: A Longitudinal Forensic Analysis of Macroscopic and Microscopic Cut Mark Characteristics** Kelly C. McGehee, MA*; John J. Schultz, PhD

ANTHROPOLOGY

Friday

Poster Session

11:30 am – 1:00 pm	**A120**	**Beyond the Milk Carton: Disparities in Missingness Among Children and Adolescents in Mississippi** Nicolette M. Cloutier, BA*; Sarajane Smith, MA; Jesse R. Goliath, PhD
11:30 am – 1:00 pm	**A121**	**Beyond NamUs: Why Centralized Databases Fail Local Jurisdictions—And How Anthropologists Are Bridging the Gap** Jesse R. Goliath, PhD*; Amy R. Michael, PhD; MariaTeresa Tersigni-Tarrant, PhD
11:30 am – 1:00 pm	**A122**	**Identifying the Victims of Amtrak's First Fatal Commuter Crash (1971): Uniting Forensic Anthropology and Investigative Genetic Genealogy Methods** Amy R. Michael, PhD*; Gwendowlyn Knapp, PhD; Jennifer Bengtson, PhD; Meghan Cook, MA
11:30 am – 1:00 pm	**A123**	**Bridging Missing Person Investigations and Unidentified Human Remains Through Geographic Mapping in Shelby County, Tennessee** Kamar Afra, MA*; Diana Messer, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A124**	**The Impact of Structural Vulnerability on Cold Case Identifications** Gabriella E. Webb, BA*; Autumn B. Cromartie, BS; Brooklyn Howard, BS; Eva Pesta, BA; Jazmin E. Borrayo, MA; Eric J. Bartelink, PhD
11:30 am – 1:00 pm	**A125**	**Forensic Anthropology and Human Identification Needs in Latin America** Mireya Mercedes Matamoros Zelaya, MSc; Marvin L. Villafranca Rivera, MA; Derek Congram, PhD*; Sofia Gabriela McCarthy Chavez, MD
11:30 am – 1:00 pm	**A126**	**Advancing Humanitarian Forensic Capacity in the United States: The Arizona State University Humanitarian Forensics Hub** Sherry C. Fox, PhD*; Tricia M. Redeker Hepner, PhD; Sara Fatula, PhD; Gabriella Soto, PhD; Cate Bird, PhD
11:30 am – 1:00 pm	**A127**	**Going With the Flow: A Multi-State identification Along the Río de las Ánimas Perdidas** Dawn M. Mulhern, PhD*; Heather Edgar, PhD; Brittany P. Wexler, MSc
11:30 am – 1:00 pm	**A128**	**Bone of Deception: Forensic Identification in a Missing Person Deprived of Liberty (PDL) Case in a Correctional Facility** Annalyne R. Dadiz, MD*
11:30 am – 1:00 pm	**A129**	**Managing Missingness: Collaborative Infrastructure and Current Trends From the Mississippi Repository** Madisen P. James, BS*; Kiersten Gilmore, BA; Austin Gillis, BA *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A130**	**Evaluating Pedal Sesamoid and Accessory Ossicles for Use in Personal Identification** Emma Taylor, BS*; Mariyam I. Isa, PhD
11:30 am – 1:00 pm	**A131**	**The Knuckle Signature: A 2D–3D Morphometric Framework for Forensic Human Identification in Organized Crime Investigations** Danny Jesus Humpire, ScD*

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11:30 am – 1:00 pm	**A132**	**The Utility of Three-Dimensional Volume Renderings (3D VR) From Computed Tomography for Personal Identification** Timothy P. Gocha, PhD; Carlos J. Zambrano, PhD; Angela K. Berg, MA; Sara M. Getz, PhD*
11:30 am – 1:00 pm	**A133**	**From Archaeology to Forensics: A Validation of ZooMS Identification for Fragmented or Ambiguous Osseous Remains** Andrea Palmiotto, PhD*; Anneke Janzen, PhD; Kristine Korzow, PhD; Casey L. Doyle, BA; Jude M. Hastings, BA; William D. Stevens, PhD; Madeline Atwell, PhD; Christine M. Pink, PhD; Giovanna Vidoli, PhD; Daniel J. Wescott, PhD
11:30 am – 1:00 pm	**A134**	**Developing Rapid DNA Sampling Guidelines for Fire Scene Response: A Bayesian Approach** Arielle Zohara Sperber, MA* *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A135**	**The Influence of Preservative Treatments on Collagen Concentration in Korean War Remains** Amelia J. Edwards, MS*; Lyndi Low, MS; Lesley A. Chesson, MS
11:30 am – 1:00 pm	**A136**	**Evaluating the Performance of Isotope Classification Models for Geographic Provenance** Anelis Diaz, MA*; Ann H. Ross, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A137**	**The Effect of Sampling Location on pXRF Analysis of Human Bone** Madeline J. Leeah, BA*; Mariyam I. Isa, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A138**	**Articulatio Cubiti: Predictive Pathways in Reassociation of the Elbow** Anna S. H La Valley, MSc*; Erica Baer, PhD; Xenia Paula Kyriakou, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A139**	**Using the Pythagorean Theorem to Calculate Maxillo-Alveolar Length** Miranda Ehlers, MA*; Elisabeth Cuerrier-Richer, PhD; Christian Crowder, PhD
11:30 am – 1:00 pm	**A140**	**A Geospatial Analysis of Disappearances Within the Cauca River, Colombia** Emma Timmons, BS; Jazmin E. Borrayo, MA*; Nicholas V. Passalacqua, PhD; Alvaro Montenegro, PhD; Derek Congram, PhD; Diana Paola García Guzman, MAS *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A141**	**Traces in Space: Identifying Recovery Hotspots of Human Remains Across Florida Medical Examiner Jurisdictions** Savanna D. Agilar, MS*; Micki Besse, MS; Lucy M. Papp, PhD; Catherine R. Miller, MD; Rebecca Mac Dougall, MD; Heather A. Walsh-Haney, PhD; Benjamin Mathis, MD
11:30 am – 1:00 pm	**A142**	**A Quantitative Analysis of Differential Vegetation as an Indicator of Human Burials in a Florida Pine Flatwoods Environment Using Vegetation Coverage Estimates** Austin L. Polonitza, MS*; Micki Besse, MS; Savanna D. Agilar, MS; Heather A. Walsh-Haney, PhD
11:30 am – 1:00 pm	**A143**	**The View From Space: The Use of Satellite Imagery and AI Tools to Detect Clandestine Burials in Southwest Florida** Emmalee Bullington, MS*; Mariah Zarria, BS; Micki Besse, MS; Savanna D. Agilar, MS; Heather A. Walsh-Haney, PhD
11:30 am – 1:00 pm	**A144**	**Comparing Mobile Application- and Agisoft Metashape-Based 3D Reconstructions of Outdoor Forensic Scenes Involving Replica Human Skeletal Remains** Morgan J. Ferrell, PhD*; John J. Schultz, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*

11:30 am – 1:00 pm	**A145**	**A Systematic Error Analysis of geoFOR** Tempest D. Mellendorf, MS*; Sydney Munkus, MA; Victoria A. Eacott, BA; Devin L. Adcox, MA *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A146**	**When a Millimeter Matters: Resin vs. Filament in 3D-Printed Skeletal Accuracy** Valerie E. Steger, BS*; Micki Besse, MS; Savanna D. Agilar, MS; Heather A. Walsh-Haney, PhD
11:30 am – 1:00 pm	**A147**	**The Forensic Anthropology Archive** Jerielle Cartales, MSc*; Kate E. Kolpan, PhD *(FSF Emerging Forensic Scientist Award Poster Presentation)*
11:30 am – 1:00 pm	**A148**	**Attitudes Surrounding Reciprocal Body Donation in Forensic Anthropology** Joseph T. Hefner, PhD*; Rhian Dunn, PhD*
11:30 am – 1:00 pm	**A149**	**Bridging the Gap Between Academia and the Medicolegal System: The BCMEO's Advanced Forensic Anthropology Internship Model for Graduate Professional Development** Lillian S. Antonelli, MA*; Emma M. Giacomello, MA*; MariaTeresa Tersigni-Tarrant, PhD*; Michelle D. Hamilton, PhD
11:30 am – 1:00 pm	**A162**	**The Influence of Target Sample Age Structure on Skeletal Age Estimation Error** Allyson M. Simon, MS*; Conner I. Gayagoy, BS; Nicholas V. Passalacqua, PhD; Mark Hubbe, PhD

Friday

Reassociation and Identification From Skeletal Evidence

Moderator: Rebecca George, PhD — Co-Moderator: Emma Giacomello, MA

8:30 am – 8:45 am	**A108**	**A Computational Seating and Ranking of Vertebral Pairs: Re-Associating Commingled Remains With the Anthropologist in the Loop** Ivan Jerković, PhD*; Jeffrey Lynch, PhD; Carrie LeGarde, PhD; Katie Whitmore, PhD; Franklin Damann, PhD; Željana Bašić, PhD
8:45 am – 9:00 am	**A109**	**BoneTwin: Facilitating the Interpretation of Digital Pair-Matching Results for Commingled Skeletal Assemblages** Yangseung Jeong, PhD*
9:00 am – 9:15 am	**A110**	**Does It Fit? The Standardization of Physical Fit for Identification in Forensic Anthropology** Benjamin J. Figura, PhD*; Kiana C. Miller, BS
9:15 am – 9:30 am	**A111**	**The Application of Chest Radiograph Comparison to the Assessment and Resolution of Commingled Human Skeletal Remains** Melissa Menschel, MS*; Kristen Grow, MA*
9:30 am – 9:45 am	**A112**	**3D Facial Prediction for Forensic Identification** Franziska Wilke, PhD; Kayla Borrowski, BSc; Mallory Price, MSc; Susan Walsh, PhD*
9:45 am – 10:00 am	**A113**	**Variation in Spectra Within LIBS Data: Recommendations for Sampling** Maria Cox, PhD*; Lesley A. Chesson, MS; Matthieu Baudelet, PhD

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Multi-Method Identification and Provenance

Moderator: Andrea Palmiotto, PhD — Co-Moderator: Lillian Antonelli, MA

10:00 am – 10:15 am **A114** **Comparing Anthropological Estimations and Genetic Results for Unidentified Cases at the Forensic Anthropology Center at Texas State**
Emma M. Giacomello, MA*; Theresa De Cree, MS; Emilie Wiedenmeyer, PhD; Michelle D. Hamilton, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation)

10:15 am – 10:30 am **A115** **From Scrubbed Skeletons to Smart Workflows: Optimizing Bone Cleaning and Sampling for Multi-Omic Human Identification**
Subham Mukherjee, PhD*; Noemi Procopio, PhD; Thilini Chandrasekara, MScFS; Haeli Kennedy, BS; Sheree R. Hughes, PhD; Glendon J. J. Parker, PhD

10:30 am – 10:45 am **A116** **A Revised Method for Estimating Year-of-Birth With Bomb Pulse Radiocarbon (14C) Dating of Human Enamel**
Rhonda Quinn, PhD*; Carla Hadden, PhD; Camille Maria Martin, MSc; Angela Soler, PhD; Megan van den Berg, PhD; Timothy P. Gocha, PhD

10:45 am – 11:00 am **A117** **Multi-Tissue Stable Isotope Assignment for Geographic Provenance and Lifetime Mobility Assessment of Unidentified Human Remains in South America**
Gabriela B. Nardoto, PhD*; Luiz Antonio Martinelli, PhD

11:00 am – 11:15 am **A118** **Skeletal Element Type-Specific Intraperson Isotopic Variation (δ13C and δ15N Values)**
Janet E. Finlayson, PhD*; Valerie Sgheiza, PhD; Lesley A. Chesson, MS; Gregory E. Berg, PhD

11:15 am – 11:30 am **A119** **The Forensic Anthropological Odyssey of the Ajnala Skeletal Remains: Amalgamating Osteology, Odontology, Isotopes, Ancient DNA, Trace Elements, and Historical Context for Identification**
Jagmahender Singh Sehrawat, PhD*

11:30 am – 1:30 pm **BREAK**

Standards, Training & Professional Practice

Moderator: Deborrah C., PhD — Co-Moderator: Julie Fleischman, PhD

1:30 pm – 1:45 pm **A150** **Achieving Accreditation as a Sole Practitioner: Lessons Learned**
Jennifer C. Love, PhD*

1:45 pm – 2:00 pm **A151** **Bridging the Learning GAP: The Graduated Analyst Program at Chico State**
Keilani M. Adams, BA*; Audrey M. Lauerhass, BS; Gabriella E. Webb, BA; Amber Plemons, PhD; Ashley Kendell, PhD

2:00 pm – 2:15 pm **A152** **Consensus Standards for Forensic Anthropology: Relevance and Progress From the ASB and OSAC**
Julie M. Fleischman, PhD*; Eric J. Bartelink, PhD

2:15 pm – 2:30 pm **A153** **The Experiences of Forensic Anthropology Students in Medical Imaging: Evidence of a Need for Standardization in Education and Training**
Amy J. Spies, PhD, D-ABFA*; Derek A. Boyd, PhD; Jennifer F. Byrnes, PhD

2:30 pm – 2:40 pm **BREAK**

Forensic Anthropology in Practice & Partnership

Moderator: Christine Baigent, PhD Co-Moderator: Gracie Hinton, BA

2:40 pm – 2:55 pm **A154** **Creating Community With Tribal Partners: A Model for Forensic Anthropology**
Chelsey A. Juarez, PhD*; Nicole Saenz, MS

2:55 pm – 3:10 pm **A155** **Forensic Anthropology and the Politics of Practice**
Donovan M. Adams, PhD*; Samantha H. Blatt, PhD; Isis Dwyer, PhD; Mariyam I. Isa, PhD

3:10 pm – 3:25 pm **A156** **Small Country, Big Challenges: Lessons From Forensic Anthropology Practice in Slovakia**
Katarína Hanzelyová, MSc*; Petra Švábová, PhD; Richard Sivulič, MD, PhD; Ľubomír Straka, MD, PhD

3:25 pm – 3:40 pm **A157** **A Global Collaboration and Multidisciplinary Innovation in a Large-Scale Human Identification Program: Forensic Archaeology and Anthropology at the Former Mother and Baby Institution in Tuam, Ireland**
Allysha P. Winburn, PhD*; Oran Finegan, MSc; Niamh McCullagh, PhD; Jodie Ward, PhD; Ros Ó Maoldúin, PhD

3:40 pm—3:50 pm **BREAK**

Identification Systems, Missing Persons & NamUs

Moderator: Amy Michael, PhD Co-Moderator: Ashley Smith, PhD

3:50 pm – 4:05 pm **A158** **Measuring Forensic Anthropology's Role in Identification Outcomes Through 20 Years of Casework**
Eva Pesta, BA*; Natalie Tezsla, MA; Ava D. Anthes, BA; Ashley Kendell, PhD; P Willey, PhD; Eric J. Bartelink, PhD; Colleen Milligan, PhD; Amber Plemons, PhD

4:05 pm – 4:20 pm **A159** **The Documentation and Availability of DNA Reference Samples in Missing Persons Cases: A Multi-State Analysis Using the Doe Network**
Abigail E. Houkes, MA*; Maricielo Marin, BS
(FSF Emerging Forensic Scientist Award Oral Presentation)

4:20 pm – 4:40 pm **A160** **From Skeletal Remains to NamUs: How Forensic Anthropological Data Enhances Database Matching and Identification Outcomes**
Timothy P. Gocha, PhD*; Dustin Driscoll, BS*; Jennifer M. Vollner, PhD*; Nicole S. Jones, MS; Misty Marra, MSFS; Angela K. Berg, MA

4:40 pm – 5:00 pm **A161** **Maximizing Forensic Anthropology's Impact Through NamUs: Access, Engagement, and Case Resolution Pathways**
Allison O'Neal, MA*; Nicole S. Jones, MS; Misty Marra, MSFS