

# IACI

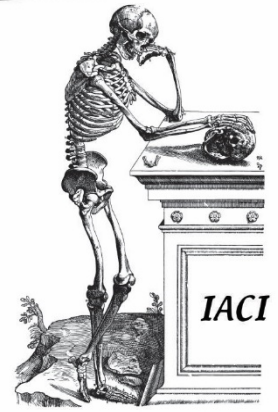
International Association of Craniofacial Identification

## IACI 2019

13-17 July, 2019  
Louisiana State University  
Baton Rouge, Louisiana  
United States



**IACI 2019**  
BATON ROUGE  
LSU • USA



International Association  
of Craniofacial Identification

## *Program (Early View)*

### **Saturday, July 13, 2019**

- 7:15-8:30am Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 7:30-4:00pm **Registration**  
130 Lobby, Howe-Russell Building
- 8:00-5:00 **W1.1** 3D Scanning Methods & Printing Techniques for CFI Professionals (will break for snacks & lunch)  
FACES Lab Repository Building
- 8:00-5:00 **W1.2** Making FACES in the LSU FACES Lab: Bringing FACES to Life through Digital Compositing in Adobe Photoshop (will break for snacks & lunch)  
108 Art Building
- 4:45-5:15 Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 5:45-6:30 Shuttle Service between Lod Cook and South Louisiana Feast (approximately 10-15 minute loop)
- 6:00-9:00 **South Louisiana Feast**  
Design Building Atrium and Patio (tentative)
- 7:45-9:00 Shuttle Service as needed between Lod Cook and South Louisiana Feast

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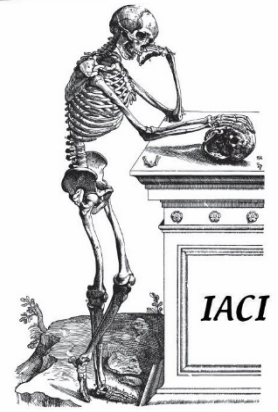
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## *Program (Early View)*

### **Sunday, July 14, 2019**

- 8:15-9:30am Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 8:30-4:00pm **Registration**  
130 Lobby, Howe-Russell Building
- 9:00-12:00 **W2.1** Taphonomic Impacts on Facial Appearance  
130 Howe-Russell Building
- 9:00-12:00 **W2.2** Missing and Unidentified Persons: It's a Team Effort  
245 Howe-Russell Building
- 12:00-1:00pm Lunch Break
- 1:00-5:00 **W2.3** Biological Profile Assessment from Skeletal Remains I: Age and Sex  
245 Howe-Russell Building
- 1:00-5:00 **W2.4** Biological Profile Assessment from Skeletal Remains II: Ancestry  
254 Howe-Russell Building
- 2:00-3:30 **IACI Board of Governors Meeting**  
FACES Lab Repository Building
- 4:45-5:15 Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 5:45-6:30 Shuttle Service between Lod Cook and Welcome Reception (approximately 10-15 minute loop)
- 6:00-8:00 **Welcome Reception**  
Location TBD
- 7:45-8:30 Shuttle Service between Lod Cook and Welcome Reception

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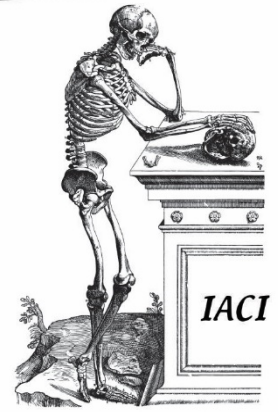
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## *Program (Early View)*

### **Monday, July 15, 2019**

- 7:45-9:00am Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 7:45-12:00 **Registration, Poster Set up**  
130 Lobby, Howe-Russell Building
- 8:30-9:00 **Ginesse Listi**, Teresa Wilson, Maria Allaire, Emily Wiegers, Larry Livaudais, Louisiana State University  
Welcome Remarks, "Facing the Future of Craniofacial Identification"

### **Session 1**

- 9:00-9:45 1.1 **Caroline Wilkinson**, Liverpool John Moore University  
"Introduction to Cognitive Bias in Relation to Facial Depiction from Human Remains"
- 9:45-10:00 1.2 **Rubén Martos**, Oscar Ibáñez, Imaculada Alemán, University of Granada  
"A New Atlas of Facial Features for Morphological Analysis Employing Synthetic Facial Images"
- 10:00-10:15 1.3 **Sarah Shrimpton**, Caroline Wilkinson, Charlie Frowd, Liverpool John Moores University  
"Facial Creation: How Much of a Donor Face Image Can Be Used Whilst Still Preserving Their Anonymity?"
- 10:15-10:30 1.4 **Peter Claes**, Katholieke Universiteit Leuven  
"Updated Insights in Facial Genetics"
- 10:30-10:45 Break (Refreshments Served)

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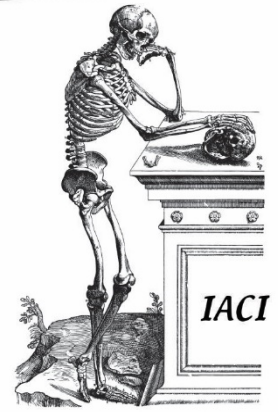
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**Monday, July 15, 2019**

### Session 2

- 10:45-11:15 2.5 **Carl Stephan**, University of Queensland  
"A Principled Overview of Facial Soft Tissue Thicknesses Research in Craniofacial Identification"
- 11:15-11:30 2.6 **Terrie Simmons-Ehrhardt**, Catyana Falsetti, Anthony Falsetti, Virginia Commonwealth University  
"Three-Dimensional (3D) Craniofacial Identification Resources for Quantification, Immersion, and Collaboration"
- 11:30-11:45 2.7 David Urdín, **Pablo Mesejo**, Oscar Ibáñez, Andrea Valsecchi, Pierre Guyomarc'h, Hélène Coqueugnoit, University of Granada  
"Facial Soft Tissue Depth Estimation Using Machine Learning Techniques"

### OSAC LUNCHEON

- 11:45-12:00 Pick up lunch in 130 Lobby (ticket required)
- 12:00-1:00pm **Lora Sims**, Chair, OSAC Facial Identification Subcommittee  
"Update on Organization of Scientific Area Committees (OSAC) for Forensic Science and Facial Identification Scientific Working Group"

### Session 3

- 1:15-1:30 3.8 **Steven L. Johnson**, Ideal Innovations Advisory Board  
"Update on the State of OSAC Standards Development and IAI Forensic Art Certification"
- 1:30-1:45 3.9 **Oscar Ibáñez**, Rubén Martos, Carmen Campomanes-Álvarez, B. Rosario Campomanes-Álvarez, Immaculada Alemán, P.T. Jayaprakash, Horacio Solla, Alexey Abramov, J.M. Alonso, Oscar Cordón, University of Granada  
"An Identification Report Template for Linguistic Summarization in Craniofacial Superimposition"
- 1:45-2:00 3.10 **Kathryn Smith**, Liverpool John Moores University  
"Extreme Forensics' in South Africa: Exploring New Post-mortem Visual Identification Protocols"

Presenting author in bold; presenting author's affiliation.

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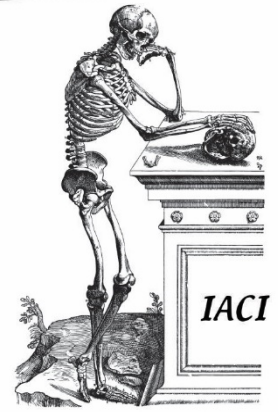
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### Session 4

- 2:00-2:15 4.11 **Petra Urbanová**, Hana Eliášová, Tatjana Dostálová, Masaryk University  
"How Accurate is Forensic Image Identification of Surgically Altered Faces?"
- 2:15-2:30 4.12 **Nicholas Bacci**, Maryna Steyn, Nanette Briers, University of the Witwatersrand  
"Comparing Reliability of Facial Comparison Methods in Photos and CCTV Recordings"
- 2:30-2:45 4.13 Oscar Gómez, **Pablo Mesejo**, Oscar Ibáñez, Andrea Valsecchi, Oscar Cordón,  
University of Granada  
"Automatic Segmentation of Skeletal Structures in X-ray Images Using Deep Learning:  
Towards a Computer-aided Decision Support System for Comparative Radiography"
- 2:45-3:00 4.14 **Thomas Shaw**, Parabon Nanolabs  
"Benefits of Parabon's Advanced DNA Analysis Services to Unidentified Remains  
Cases"
- 3:00-3:15 Break (Refreshments Served)

### Session 5

- 3:15-3:30 5.15 **Hajime Utsuno**, Chihiro Tanaka, Namiko Ishii, Saki Minegishi, Jun Ota, Yosuke  
Makino, Hisako Saito, Hirotarō Iwase, Koichi Sakurada, Tokyo Medical and  
Dental University  
"Relationship Between the Margin of the Piriform Aperture and the Nostril (Nasolabial  
Fold)"
- 3:30-3:45 5.16 Kppm Yeol Ryu, Ki-Su Park, Min-Ji Kim, Ji-Su Yn, U-Young Lee, San-Seob Lee,  
Byung-Yoon Roh, Jeong-Uk Seo, Chang-Un Choi, In-Su Seo, **Won-Joon Lee**,  
National Forensic Service Seoul Institute  
"Craniofacial Anthropometric Analysis Between Nose and Nasal Aperture Utilizing 3D  
CT Scanned Images from Korean Subjects"
- 3:45-4:00 5.17 **Joe Adserias-Garriga**, Jean Nault, Texas State University  
"Depicting a Missing Mandible (Applying Scientific Principles)"



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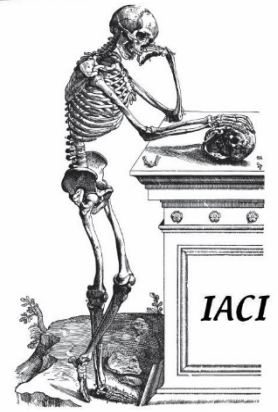
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### Session 5 Continued

- 4:00-4:15    5.18 **Petra Hlinakova**, Tatjana Dostálová, Martin Horacek, Hana Eliášová, Charles University  
"2D Cephalometric Image and 3D Cone Beam Computed Tomography Comparison in the Process of Identification"
- 4:15-4:30    5.19 **Tatjana Dostálová**, Petra Urbanová, Petra Hlinakova, Hana Eliášová, Charles University  
"A Comparison of the Precision of 3D Images of Soft and Hard Tissues from the Forensic Point of View"
- 4:30-4:45    5.20 **Chihiro Tanaka**, Hajime Utsuno, Namiko Ishii, Saki Minegishi, Jun Ota, Yosuke Makino, Hisako Saito, Hirotarō Iwase, Koichi Sakurada, Tokyo Medical and Dental University  
"Comparison Between a Reconstructed Face and Postmortem Face Using Postmortem CT Images"
- 4:45-5:15                      Posters moved to Repository Building (Conference Staff)
- 4:45-5:30                      Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)

**EVENING FREE**

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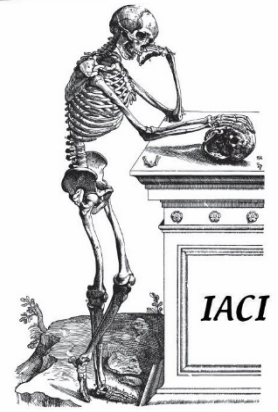
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### **Tuesday, July 16, 2019**

- 7:45-9:00am Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute loop)
- 8:00-9:30 **Registration**, Posters moved to lobby (Conference Staff)  
130 Lobby, Howe-Russell Building

### **Session 6**

- 8:30-8:45 6.22 A Uys, H Bernitz, S Pretorius, **M Steyn**, University of the Witwatersrand  
"Age Estimation in Living South Africans"
- 8:45-9:00 6.23 J.P. Meyer, C. Small, J. Hemingway, **Nanette Briers**, University of the Witwatersrand  
"Age Estimation Using Anterior Facial Shape Data in Black and Coloured South African Children"
- 9:00-9:15 6.24 **Estha Schmidlin**, Maryna Steyn, Tobias MR Houton, Nanette Briers, University of the Witwatersrand  
"Geometric Morphometric Analysis of Age-associated Facial Shape Changes In South African Adult Males"
- 9:15-9:30 6.25 **Ching Yiu Jessica Liu**, Liverpool John Moores University  
"A Guided Method for Digital Juvenile Manual Age Progression"

### **Session 7**

- 9:30-9:45 6.26 **Rubén Martos**, Oscar Ibáñez, Oscar Gómez, Andrea Valsecchi, Enrique Bermejo, Carmen Campomanes, University of Granada  
"A Craniofacial Superimposition Reliability Study Using Automatic Algorithms"
- 9:45-10:00 6.27 Enrique Bermejo, **Andrea Valsecchi**, Oscar Ibáñez, Pierre Guyomarc'h, Hélène Coqueugniot, University of Granada  
"Large-scale Assessment of Landmark-based, Automatic Craniofacial Superimposition for Identification"

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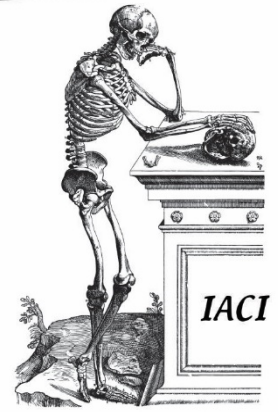
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### Session 7 Continued

- 10:00-10:15 6.28 **Xin Li**, Celong Liu, Louisiana State University  
"From Digital Skull to Realistic Face Model: AI-assisted Superimposition and Face Approximation"
- 10:15-10:30 6.30 **Yuan Li**, Jian Wang, Xue Yang, Wei-Bo Liang, Hui Xue, Zhen-Hua Deng, Jian-Cheng Iv, Lin Zhang, Sichuan University  
"Craniofacial Reconstruction with Deep Neural Networks"
- 10:30-10:45 Break (Refreshments Served)

### Session 8

- 10:45-11:15 8.30 **Suzanne Birdwell**, Texas Department of Public Safety  
"Beyond the Research: Active Use of Evidentiary Art in Law Enforcement Investigations"
- 11:15-11:30 8.31 **Maria Castañeyra-Ruiz**, Francesca Phillips, Caroline Wilkinson, Liverpool John Moores University  
"The Faces of the Canary Islands: Two Populations that are Centuries Apart"

### Session 9

- 11:30-12:00 9.32 **Karen T. Taylor**, Facial Images, Texas State University  
"FACE FACTS: Simple Truths in Facial Identification"

12:00-1:00pm **LUNCH**

### Session 10 Authors Present at Posters (1:00 – 2:15)

- 10.33 **Chang-Un Choi**, Won-Joon Lee, Yi-Suk Kim, Jung Hyun Park, Seoul Institute  
"A Study into the Morphology of Korean Orbits Employing 3D Skull CT Images and Craniometric Analysis"
- 10.34 **Jorge Molina**, Texas Department of Public Safety  
"The Art of Identifying Mansfield, TX Jane Doe"



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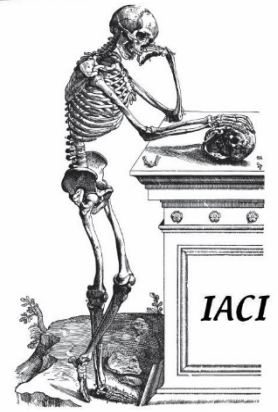
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**Session 10 Continued**

**Authors Present at Posters (1:00 – 2:15)**

- 10.35 **Karen T. Taylor**, Facial Images, Texas State University  
"Historical Facial Reconstruction: Fort William Henry, New York"
- 10.36 **Kathryn Smith**, Liverpool John Moores University  
"One of Us? Navigating 'Rehumanization' Questions in the Depiction and Display of Two Ancient Egyptians from the Johns Hopkins Archaeological Museum"
- 10.37 **Tobias M.R. Houlton**, Jason Hemingway, Nicolene Jooste, Andre Uys, Maryna Steyn, University of the Witwatersrand  
"Soft and Hard-tissue Relationships of the Mouth in a southern African Population"
- 10.38 Enrique Fernandez, **Andrea Valsecchi**, Oscar Ibáñez, Pablo Mesejo, University of Granada  
"Estimating Subject-to-Camera Distance in Facial Images Using Deep Learning"
- 10.39 Guillermo Gomez, **Pablo Mesejo**, Oscar Ibáñez, Andrea Valsecchi, University of Granada  
"Automatic Cephalometric Landmarks Localization Using Deep Convolutional Neural Networks"
- 10.40 **Rubén Martos**, Oscar Ibáñez, Andrea Valsecchi, Enrique Bermejo, Fernando Navarro, Giedrius Kisielius, Rimantas Jankauskas, University of Granada  
"Case Report: Identification of the Leaders of the Anti-Russian Uprisal of 1863-1864 Using Automatic Craniofacial Superimposition Algorithms"
- 10.41 **Xin Li**, Louisiana State University  
"Training Computers to Help Automate the Restoration of Fragmented or Incomplete Skulls"
- 10.42 **E Nuzzolese, M Torreggianti, RG Quaglione**, University of Turin  
"The Need for a Complete Dental Autopsy of Unidentified Edentulous Human Remains"

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### **Tuesday, July 16, 2019**

- 2:15-2:30 **Ginesse Listi**, Teresa Wilson, Maria Allaire, Emily Wieggers, Larry Livaudais,  
Louisiana State University  
Closing Remarks
- 2:30-3:45 BUSINESS MEETING (All attendees welcome)  
130 Howe-Russell Building
- 2:30-4:30 Posters Taken Down (Authors)  
130 Lobby, Howe-Russell Building
- 3:45-4:30 Shuttle Service between Lod Cook and Conference Hub (approximately 10-15 minute  
loop)
- 5:15-5:30 Meet Bus at Lod Cook for Conference Dinner
- 5:30 *Bus leaves Lod Cook for Conference Dinner*
- 11:30 *Bus returns to Lod Cook from Conference Dinner*

### **Wednesday, July 17, 2019**

- 6:00-6:30am Meet Bus at Lod Cook for New Orleans Lagniappe
- 6:30am *Bus leaves Lod Cook for New Orleans*
- 10:00pm *Bus returns to Lod Cook from New Orleans*