

Julianne Sarancha

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EDUCATION

Doctor of Philosophy in Environmental Life Sciences (in progress) Arizona State University, Tempe • Dissertation: Increasing Reliability of Isotope Analysis of Modern Human Remains	2019 – Current
Master of Science in Forensic Science University of California, Davis • Thesis: Conservation and Alteration of Isotope Ratios in Burned Bone	2014 – 2018
Bachelor of Science in Biology California State Polytechnic University, Pomona • Minor in Chemistry	2010 – 2013

EMPLOYMENT

Graduate Research Associate Arizona State University, School of Earth and Space Exploration, Tempe, AZ	2019 – Present
Analytical Studies Intern Smithsonian Museum Conservation Institute, Suitland, MD	2019 – 2019
Research Technician Arizona State University, School of Earth and Space Exploration, Tempe, AZ	2019 – 2019
Biological Science Technician USDA Agricultural Research Services at Western Human Nutrition Research Center, Davis, CA	2018 – 2019
Analytical Studies Intern Smithsonian Museum Conservation Institute, Suitland, MD	2017 – 2017
R&D Chemistry Laboratory Technician Kelly Services, Johnson & Johnson – Advanced Sterilization Products, Irvine, CA	2017 – 2017
Agricultural Science Research Technician USDA Agricultural Research Services at Western Human Nutrition Research Center, Davis, CA	2015 – 2016

PUBLICATIONS

Sarancha, J. J., and G. Gordon. A Critical Review of Standards for Isotopic Analysis of Bone: Current Availability and Needs. (In Preparation)

Sarancha, J. J., and G. Gordon. An Evaluation of Calcium Removal During Demineralization of Bone for Staple Isotope Analysis of Collagen. (In Preparation)

Sarancha, J. J., and G. Gordon. The Impact of Chemical Maceration on Elemental Concentrations and $^{87}\text{Sr}/^{86}\text{Sr}$ Values in Bone. (In Preparation)

Sarancha, J. J., J. Eerkens, C. Hopkins, D. Goncalves, E. Cunha, I. Oliveira-Santos, A. Vassalo, and G. Gordon. (2022) The effects of burning on isotope ratio values in modern bone: Importance of experimental design for forensic applications. Forensic Science International. 337.

Cleland, T. P., **J. J. Sarancha**, and C. A. M. France. (2021) Proteomic profile of bone “collagen” extracted for stable isotopes: Implications for bulk and single amino acid analyses. Rapid Commun Mass Spectrom. 35:e9025.

PRESENTATIONS

Sarancha J. J. (2024, February). An Evaluation of Calcium Removal During Demineralization of Bone for Stable Isotope Analysis of Collagen. Paper presented at the 76th Annual Scientific Meeting of American Academy of Forensic Sciences, Denver, CO.

Sarancha J. J., and G. Gordon. (2024, February). The Impact of Chemical Maceration on Elemental Concentrations and $^{87}\text{Sr}/^{86}\text{Sr}$ Values in Bone. Paper presented at the 76th Annual Scientific Meeting of American Academy of Forensic Sciences, Denver, CO.

Sarancha, J. J., and G. Gordon. (2023, February). Reference Materials for Stable Isotope Analysis of Bone: Current Availability and Needs. Paper presented at the 75th Annual Scientific Meeting of American Academy of Forensic Sciences, Orlando, FL.

Sarancha, J. J., G. Gordon, J. Eerkens, C. Hopkins, E. Cunha, D. Goncalves, I. Oliveira-Santos, A. Vassalo. (2022, October). Experimental design matters for forensic stable isotope analysis of burned bone. Paper presented at the 1st Cremations in Archaeology Conference, Ghent, Belgium.

Sarancha J. J., G. Gordon. (2022, July). Current Landscape and Needs for CRMs of Human Bone. Presented at the Identifying Measurement Services & Measurement Sciences Needs for Isotope Metallomics Workshop of the Goldschmidt Conference, HI. (presented virtually)

Sarancha J.J., A. Baide, C. Dittmore, T. Delgado, and G. Bowen. (2022, February). Developing a tissue specific multi-isotope ($^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$) to estimate region of origin. Paper presented at the 74th Annual Scientific Meeting of American Academy of Forensic Sciences, Seattle, WA. (Virtual)

France, C. A. M. and **J. J. Sarancha.** (2020, April). Sulfur isotopes in modern deer bones of Virginia, USA - establishing $\delta^{34}\text{S}$ isotope for archaeological studies of East Coast North America. Poster accepted for the American Association of Physical Anthropologists, Los Angeles, CA. (Conference Cancelled)

Sarancha, J. J., G. Gordon, J. Eerkens, C. Hopkins, E. Cunha, D. Goncalves, I. Oliveira-Santos, A. Vassalo. (2019, September). Isotope Ratio Preservation in Burned Pig and Human Bones. Paper presented at the 7th Conference of the Forensic Isotope Ratio Mass Spectrometry Network, San Michele all'Adige, Italy.

Sarancha, J.J. (2019, July). Geographic distribution of sulfur isotopes in bone collagen from Eastern North America. Smithsonian Museum Conservation Institute Intern Presentations. Suitland, MD.

Sarancha, J. J., G. Gordon, J. Eerkens, C. Hopkins, E. Cunha, D. Goncalves, I. Oliveira-Santos, A. Vassalo. (2019, February). Conservation of Isotope Ratios in Burned Bones of Pigs and Humans. Paper presented at the 71st Annual Scientific Meeting of American Academy of Forensic Sciences, Baltimore, MD.

Sarancha, J. J., G. Gordon, J. Eerkens, C. Hopkins, E. Cunha, D. Goncalves, I. Oliveira-Santos, A. Vassalo. (2018, June). Fidelity of Isotope Ratios in Burned Bones. Paper presented at Advances in Stable Isotope Techniques and Applications Workshop, Washington D.C.

Sarancha, J.J. (2017, August). Stable isotope analysis of Egyptian mummies: Diagenetic and dietary information. Smithsonian Museum Conservation Institute Intern Presentations. Suitland, MD.

AWARDS

• 2024 Forensic Science Foundation Student Affiliate Scholarship	\$155
• 2023 Graduate and Professional Student Association Career Development Travel Award	\$950
• 2023 Graduate College Travel Award	\$300
• 2023 IsoCamp Tuition Scholarship	\$900
• 2022 Forensic Science Foundation Lucas Research Grant	\$5,806
• 2022 School of Life Sciences Travel Award	\$400

• 2022 Forensic Science Foundation Student Travel Grant	\$1,500
• 2021 Graduate and Professional Student Association Travel Grant	\$950
• 2021 SPATIAL NSF Participation Award	\$2,350
• 2020 National Institute of Justice Graduate Research Fellowship	\$150,000
• 2019 School of Life Sciences Fellowship	\$2,500

PROFESSIONAL DEVELOPMENT

• The Impact of Burning on Skeletal and DNA Evidence Workshop	2024
• American Academy of Forensic Sciences Annual Meeting	2024
• IsoCamp	2023
• The Seven Habits for Highly Effective Standards Development Workshop	2023
• American Academy of Forensic Sciences Annual Meeting	2023
• Cremations in Archaeology Conference	2022
• Conference of the Forensic Isotope Ratio Mass Spectrometry Network	2022
• Identifying Measurement Services & Measurement Sciences Needs for Isotope Metallomics Workshop	2022
• American Academy of Forensic Sciences Annual Meeting	2022
• SPATIAL Isotopes in Biogeochemistry & Ecology Course	2021
• American Academy of Forensic Sciences Annual Meeting	2021
• 25 Years of Crossing Borders: Young Forensic Scientists and Their Collaborations Workshop	2020
• New Advances in Forensic Human Identification: Issues and Approaches Workshop	2020
• American Academy of Forensic Sciences Annual Meeting	2020
• Isoscape Workshop	2019
• Good Practice in IRMS Analysis Workshop	2019
• Conference of the Forensic Isotope Ratio Mass Spectrometry Network	2019
• Workshop on the Source of the Delta IRMS	2019
• Advances in Stable Isotope Techniques and Applications Workshop	2019
• So You Want to Publish? A Basic Primer and Introduction to Forensic Publishing Workshop	2019
• American Academy of Forensic Sciences Annual Meeting	2019
• Advances in Stable Isotope Techniques and Applications Workshop	2018
• American Academy of Forensic Sciences Annual Meeting	2018
• American Academy of Forensic Sciences Annual Meeting	2017
• American Academy of Forensic Sciences Annual Meeting	2016

VOLUNTEER WORK AND UNIVERSITY INVOLVEMENT

• Administrative Assistant of the ASU Gun Devils	2023 – Present
• Volunteer for Ask a Biologist	2021 – Present
• Volunteer Decoy for TSA PHX K9 Unit	2019 – Present
• Grant Reviewer for the Graduate and Professional Student Association	2021 – 2022
• Volunteer for AAFS Annual Meeting	2018 – 2020
• Member of the Coordinating Committee for Self-Supporting Degree Programs	2015 – 2016
• Treasurer of the Forensic Science Student Organization	2015 – 2016
• Vice President of the Cal Poly Pomona Rodeo Team	2010 – 2012