

Dr. Isabel Sora Maggiano

(formerly Isabel Sora Wanner)

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EDUCATION

- 2004 - 2007 **Ph.D. Equivalent** (Doctor rerum naturalium, Summa cum laude), Biology (Subdisciplines: bioarchaeology, biomechanics, histomorphology), Biology and Chemistry Department, University Hildesheim, Hildesheim, Germany
- 2002 - 2006 **Certificate of Interdisciplinary Studies** European Migration (EUROMIR), Johannes-Gutenberg University, Mainz, Germany
- 1998 - 2003 **M.A. Equivalent** (Magister), Physical Anthropology (Minors: Ethnology and Sociology), Anthropology Department, Johannes-Gutenberg University Mainz, Germany

ACADEMIC APPOINTMENTS

- 2022 – present **Senior Lecturer**, Department of Anthropology, Sociology, and Psychology, University of West Georgia, Carrollton, Georgia, USA
- 2016 - 2021 **Lecturer**, Department of Anthropology, University of West Georgia, Carrollton, Georgia, USA
- 2015 - 2016 **Limited-Term Instructor**, Department of Anthropology, University of West Georgia, Carrollton, Georgia, USA
- 2013 - 2015 **Research Associate**, Department Anatomy, Physiology, and Pharmacology, University of Saskatchewan, Saskatoon, Canada. Analysing and reconstructing 3D bone structure through Synchrotron Micro-CT images
- 2011 - 2014 **Adjunct Assistant Professor**, Department of Anthropology, The Ohio State University, Columbus, Ohio, USA
- 2009 - 2012 **Post-doctoral Research Fellow**, The Ohio State University, Columbus, Ohio, USA, funded by the German Science Foundation, Bonn, Germany.
Histomorphometric analysis of the endosteal lamellar pocket: The archaeological significance of localized variation in compact bone microarchitecture

SCHOLARSHIPS, GRANTS AND AWARDS

- 2023 **Georgia Affordable Learning Continuous Improvement Grant:** Adoption of 2nd Edition of OER for Introduction to Biological Anthropology Course. \$4,000
- 2023 **Student Research Assistance Program (SRAP-)Funding:** \$1,550, University of West Georgia, Carrollton, Georgia, USA
- 2022 **Student Research Assistance Program (SRAP-)Funding:** \$1,945, University of West Georgia, Carrollton, Georgia, USA
- 2021 **Student Research Assistance Program (SRAP-)Funding:** \$1,400, University of West Georgia, Carrollton, Georgia, USA

- 2020 **Georgia Affordable Learning Textbook Transformation Grant:** Adoption of a free online textbook for Introduction to Physical Anthropology Courses. \$10,000
- 2020 **Student Research Assistance Program (SRAP-)Funding:** \$1,945, University of West Georgia, Carrollton, Georgia, USA
- 2020 **College of Social Sciences International Travel Professional Development Award:** \$500, University of West Georgia, Carrollton, Georgia, USA
- 2020 **College of Social Sciences Momentum Course Redesign: High Impact Practices:** \$2,500, University of West Georgia, Carrollton, Georgia, USA
- 2019 **Student Research Assistance Program (SRAP-)Funding:** \$1,000, University of West Georgia, Carrollton, Georgia, USA
- 2019 **College of Social Sciences Summer Research Initiative:** \$5,000, University of West Georgia, Carrollton, Georgia, USA
- 2019 **College of Social Sciences International Travel Professional Development Award:** \$500, University of West Georgia, Carrollton, Georgia, USA
- 2018 **College of Social Sciences Excellence in Teaching Awards:** \$1,000, University of West Georgia, Carrollton, Georgia, USA
- 2018 **Student Research Assistance Program (SRAP-)Funding:** \$1,000, University of West Georgia, Carrollton, Georgia, USA
- 2018 **College of Social Sciences Summer Research Initiative:** \$5,000, University of West Georgia, Carrollton, Georgia, USA
- 2018 **College of Social Sciences Research Award:** \$1,500, received toward the development of a histological teaching collection
- 2017 **Student Research Assistance Program (SRAP-)Funding:** \$1,000, University of West Georgia, Carrollton, Georgia, USA
- 2016 **Runner-up Best Paper Prize 2016:** Journal of Anatomy
- 2009 - 2012 **Post-doctoral Research Fellow:** \$70,000/year, German Science Foundation (Deutsche Forschungsgesellschaft (DFG)), Bonn, Germany
- 2006 - 2007 **Doctoral Fellowship:** \$19,000, Peter-Fuld-Stiftung, Frankfurt, Germany
- 2000 **Cultural Studies Representative:** \$2,000, National Institute for Educational Development, Seoul, Korea

TEACHING EXPERIENCE

- 2015 – present **Senior Lecturer, Lecturer, or Limited-Term Instructor:** Faces of Culture, Introduction to Biological/Physical Anthropology, Primatology, Bioarchaeology, Skeletal Indicators of Health and Behavior, Anthropology Capstone, online and in person, University of West Georgia, Carrollton, Georgia, USA
- 2010 (4 mo.) **Lab and Field Supervisor:** Workshop on artistic bone reconstruction, Facultad de

Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico

- 2009 (1 wk.) **Teaching Assistant:** Paleohistology workshop (*Biomechanics and the reconstruction of activity patterns in bioarchaeology*), funded by CONACYT, Mexico, Facultad de Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico
- 2008 (1 yr.) **Experience Programs Teacher:** Program presentation, workshops, special event planning, COSI (Center of Science and Industry), Columbus, Ohio
- 1999 - 2003 **Museum Education Assistant:** Guided tours, workshops, assistance in the preparation of special exhibitions, development of educational programs, Federal Museum of Natural History, Mainz, Germany

RESEARCH & FIELD EXPERIENCE

- 2016 - present **Assistant Director:** Biological and Forensic Anthropology Laboratory (BAFAL), Department of Anthropology, University of West Georgia, Carrollton. Undergraduate student research, Community outreach
- 2013 - 2015 **Research Assistant:** Cooper Lab, Department of Anatomy and Cell Biology, University of Saskatchewan, Saskatoon. Complex bone histomorphometric analysis using high resolution 3D Synchrotron Imaging, Hand drawn osteonal network reconstruction and advanced digital image analysis
- 2009 - 2012 **Research Associate & Post-Doctoral Fellow:** The Ohio State University Bioarchaeology Laboratory, Department of Anthropology, The Ohio State University, Columbus, Ohio. Microscopic analysis of histological variation of compact bone
- 2010 (4 mo.) **Visiting Researcher:** Facultad de Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico. Funded by CONACYT, Mexico. Preparation of histological thin sections, microscopic analysis of long bone cross-sections, computerized cross-sectional analyses
- 2005 - 2007 **Visiting Researcher:** Paleopathology Lab, Anatomy and Embryology Department, Georg-August University Göttingen, Germany. Paleohistopathology, paleohistology, human dissection courses, lectures on paleopathology and bone histology
- 2005 (6 mo.) **Visiting Researcher:** Facultad de Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico. Preparation of histological thin sections, palaeopathological analysis, microscopic analysis of long bone cross-sections, computerized cross-sectional analyses, analyses of musculo-skeletal activity markers
- 2005 (1 wk.) **Workshop Participation:** Histomorphometric Workshop held by Prof. Dr. Sam Stout, Facultad de Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico
- 2004 (6 mo.) **Visiting Researcher:** Paleopathology Lab, Anatomy and Embryology Department, Georg-August University Göttingen, Germany. Assisted research on macroscopic and histological analysis of long bone cortices from the medieval sample from Straubing, Germany, embedding and plastination process, thin ground sectioning

- 2002 (6 mo.) **Visiting Researcher:** Facultad de Ciencias Antropológicas, Universidad Autónoma de Yucatán, Mérida, Mexico. Osteometric and occupational activity pattern analyses
- 2002 (4 wks.) **Excavator and Field School Participant:** Archaeological excavation, Chunchucmil field school, Mexico. Classic Maya settlement pattern and technical training in excavation and artefact documentation
- 2000 (6 mo.) **Language Student:** Language Research Institute, Seoul National University, “Program for Overseas Koreans”, National Institute for Educational Development, Seoul, Korea
- 1998 (4 wks.) **Excavator and Field School Participant:** Herxheim field school, “Band Ceramics” settlement, Germany. Excavation techniques, artefact analyses and museum exhibition assistance

MENTORSHIP

- 2024 – present **Undergraduate Mentor:** Students in BIS Interdisciplinary Bachelor in Forensic Science and Investigation, University of West Georgia, Carrollton
- 2017 - present **Undergraduate Supervisor:** Student Research Assistant hired as the BAFAL Lab and Field Coordinator to provide open workshops on various topics in anthropology, informational displays, development and preparation of a faunal collection, educational outreach in cooperation with Carrollton City Schools
- 2016- present **Undergraduate Mentor:** Outreach, research, lab safety, workshop development and search and recovery for local law enforcement, training and supervising 15 - 20 students and community volunteers in the Biological and Forensic Anthropology Laboratory (BAFAL), University of West Georgia, Carrollton

SERVICE

- 2015 - present **BAFAL (Biological and Forensic Anthropology Laboratory) Assistant Director,** University of West Georgia, Carrollton
- 2023 **Committee Member: CACSI Diversity, Equity, and Inclusion Committee,** University of West Georgia, Carrollton
- 2023 **Committee Member: CACSI Faculty Advisory Committee,** University of West Georgia, Carrollton
- 2023 **Principle Organizer:** Waring Distinguished Lecturer Event, Townsend Center, University of West Georgia, Carrollton
- 2018 - 2023 **Waring Endowment Manager,** University of West Georgia, Carrollton. Management of around 40 undergraduate student awards each year
- 2020 - 2021 **Anthropology Program Coordinator,** Department of Anthropology, Psychology, and Sociology. University of West Georgia, Carrollton
- 2020 - 2021 **Committee Member: Program Coordinator Committee,** University of West Georgia, Carrollton

- 2020 - 2021 **Committee Member: College Structure Committee**, University of West Georgia, Carrollton, Georgia, USA
- 2016 - 2022 **Student Supervisor, Principle Designer and Manager of the University of West Georgia Department of Anthropology Homepage:** Including a complete remodel of the University of West Georgia Department of Anthropology Homepage
- 2017-2019 **Elected College of Social Sciences Representative:** Committee for Internationalization and Diversity, University of West Georgia, Carrollton
- 2017 **Recipient:** Summer Professional Development Initiative Support, Advanced Online Course Development, University of West Georgia, Carrollton
- 2017 **Participant:** Independent Improving Your Online (IYOC-)Course, Quality Matters, Statewide Systems
- 2016 **Principal Organizer:** First BAFAL Forensic Lecture Event, Student debate and public evening lecture, University of West Georgia, Carrollton
- 2015 **Event Organizer:** Waring Distinguished Lecturer Series, Dr. Vera Tiesler from the University of Yucatan, Merida, Mexico, student meeting and public evening lecture, University of West Georgia, Carrollton

PUBLICATIONS and FINISHED WORKS

BOOK CHAPTERS

- 2022 **Maggiano C, Maggiano I:** Histomorphology of Un-Decalcified Bone in Mesoamerican Bioarchaeology. In: Tiesler V (Ed.) Routledge Handbook of Mesoamerican Bioarchaeology, Routledge
- 2012 **Maggiano I.** *Analisis microscopico de la variacion en el desplazamiento (drift) por modelacion osea: una comparacion de las poblaciones yucatecas antiguas y modernas.* In: Tiesler V: Métodos y aplicaciones de histomorfología en hueso descalcificado. Universidad Autónoma de Yucatán, Mérida, Mexico

PEER REVIEWED JOURNAL ARTICLES

- 2021 **Maggiano I, Maggiano C, Cooper D:** Osteon circularity and longitudinal morphology: Quantitative and qualitative three-dimensional perspectives on human Haversian systems. *Micron* 140: 102955
- 2018 Suzuki S, **Maggiano I.** Histological age assessment on a prehispanic Maya sample from Xcambó, Yucatan, Mexico: Benefits and Limitations. *Journal of Archaeological Science: Reports* 22:214-222
- 2016 **Maggiano I, Maggiano C, Clement JG, Thomas CDL, Carter Y, Cooper D.** *Three-dimensional reconstruction of Haversian systems in human cortical bone using synchrotron radiation-based Micro-CT: Morphology and quantification of branching and transverse connections across age.* *Journal of Anatomy* 228(5): 719–732
- 2016 Maggiano C, **Maggiano I, Tiesler V, Chi-Keb JR, Stout S.** *Methods and theory in*

bone modeling drift: Comparing spatial analyses of primary bone distributions in the human humerus. Journal of Anatomy 228(1): 190–202

- 2015 **Maggiano I**, Maggiano C, Tiesler V, Chi-Keb JR, Stout S. *Drifting diaphyses: Asymmetry in diametric growth and adaptation along the humeral and femoral length.* Anatomical Record 298(10): 1689–1699
- 2011 **Maggiano I**, Maggiano C, Tiesler V, Kierdorf H, Stout S, Schultz M. *A distinct region of microarchitectural variation in femoral compact bone: Histomorphology of the endosteal lamellar pocket.* International Journal of Osteoarchaeology 21:743-50
- 2008 **Maggiano I**, Schultz M, Kierdorf H, Sierra Sosa T, Maggiano C, Tiesler V. *Cross-sectional analysis of long bones, occupational activities and long- distance trade of the Classic Maya from Xcambó: archaeological and osteological evidence.* American Journal of Physical Anthropology 136(4): 470- 477
- 2007 **Wanner I**, Sierra Sosa T, Alt KW, Tiesler V. *Lifestyle, Occupation, and Whole Bone Morphology of the Pre-Hispanic Maya Coastal Population from Xcambó, Yucatan, Mexico.* International Journal of Osteoarchaeology 17: 253–268

THESES AND DISSERTATIONS

- 2007 **Wanner I.** *Occupational activity pattern of the Classic Maya population from Xcambó and the ancient Bavarian population from Barbing-Kreuzberg – examination of histological, biomechanical and macromorphological stress indicators of the long bones* Belastungsmuster und habituelle Aktivitäten der klassischen Maya von Xcambó und der altbairischen Population von Barbing-Kreuzhof – Untersuchung histologischer, biomechanischer und makromorphologischer Belastungsmerkmale am Langknochen. PhD Thesis. In holdings at the University Hildesheim, Germany
- 2003 **Wanner I.** *The Maya from Xcambó (Yucatan, Mexico) – An osteometrical study.* Die Maya von Xcambó (Yukatan, Mexiko) – eine osteometrische Studie. Magister Thesis (German equivalent to a Masters Degree). In holdings at the Johannes-Gutenberg University Mainz, Germany

PRESENTATIONS, ABSTRACTS and CONFERENCE ACTIVITY

- 2019 **Recent Advancements on the Analysis of Bone Microstructure.** Co-Symposium Organizer at AAPA (American Association of Physical Anthropologists), Cleveland
- 2019 *Morphological characteristics of inter-osteonal transverse connections in human Haversian tissue.* **Maggiano I**, Maggiano C, Cooper D. Poster, Symposium Recent Advancements in the Analysis of Bone Microstructure at AAPA, Cleveland
- 2017 *Longitudinal variation of osteon circularity in three-dimensional reconstructions of Haversian networks.* **Maggiano I**, Maggiano C, Clement J, Thomas D, Cooper D. Poster, Symposium honoring Sam Stout at AAPA, New Orleans
- 2016 *Circumferentially drifted osteons: Detailed histology of an unaddressed modeling drift tissue and implications for general histomorphological analyses.* Maggiano C, **Maggiano I.** Poster at AAPA, Atlanta

- 2015 *Synchrotronic three-dimensional reconstruction of cortical bone for analysis of osteonal branching and interconnectivity across age.* **Maggiano I**, Clement J, Thomas D, Carter Y, Cooper D. Poster at AAPA, St. Louis
- 2015 *Osteonal repathing: A broader context for the interpretation of type II osteons and bone remodeling vasculature across development.* Maggiano C, **Maggiano I**, Cooper D. Poster at AAPA, St. Louis
- 2014 *Comparing novel point-count and hand-drawn histomorphometric techniques for analyses of primary bone deposits in human diaphyses.* Maggiano C, **Maggiano I**, Tiesler V, Stout S. Poster at CAPA (Canadian Association for Physical Anthropology), Fredericton, Canada
- 2012 *Visualization and quantification of macroscopic patterning in human primary lamellar bone using novel techniques in stitched polarization microphotography.* Maggiano C, **Maggiano I**, Stout S. Presentation at CAPA, Victoria, Canada
- 2012 *Quantitative histomorphometry of humeral and femoral diaphyses: A longitudinal comparison of osteon population density and primary bone deposition in eight anatomical regions of interest along the bone shaft.* **Maggiano I**, Maggiano C, Tiesler V, Stout S. Poster at AAPA, Portland
- 2011 *Analyzing microscopic variation along the femoral and humeral diaphysis: A histological examination of the ELP as an indicator of long bone modelling drift.* **Maggiano I**, Maggiano C, Tiesler V, Stout S. Poster at AAPA, Minneapolis
- 2011 *The Endosteal Lamellar Pocket as an indicator of childhood and adolescent modeling drift direction and magnitude during long bone growth.* Maggiano C, **Maggiano I**, Tiesler V, Stout S. Poster at AAPA, Minneapolis
- 2009 *Cross-sectional variation at the femoral mid diaphysis: Evidence for sex bias in contour categories.* **Maggiano I**, Kierdorf H, Tiesler V, Schultz M. Poster at AAPA, Chicago
- 2009 *Quantitative histomorphometric evaluation of the Endosteal Lamellar Pocket: Comparing digital and point-count methods for the measurement of modeling drift remnants in the long bones of adults.* Maggiano C, **Maggiano I**, Stout S. Presentation at AAPA, Chicago
- 2008 *Two perspectives on occupational activity patterns: Do examinations of entheses and cross-sectional data result in similar physical activity reconstructions?* **Maggiano I**, Maggiano C, Tiesler V, Kierdorf H, Schultz M. Presentation at AAPA, Columbus
- 2008 *Identification of a distinct histomorphological feature of long bones: Potential applications in paleopathology and bioarchaeology.* Maggiano C, **Maggiano I**, Kierdorf H, Tiesler V, Stout S, Schultz M. Presentation at AAPA, Columbus, OH
- 2007 *The endosteal lamellar pocket: Histomorphometric analysis of a distinct region of microarchitectural variation in the compact bone of the femur.* **Wanner I**, Maggiano C, Kierdorf H, Tiesler V, Schultz M. Poster at GFA (German Society for Anthropology), Freiburg, Germany
- 2007 *Occupational activity patterns: Comparing examinations of cross-sectional*

geometry and musculoskeletal stress markers as methods for activity analysis.
Wanner I, Maggiano C, Tiesler V, Kierdorf H, Sierra Sosa T, Schultz, M.
Poster at GFA, Freiburg, Germany

INVITED LECTURES

- 2018 *Three-dimensional reconstruction of Haversian Systems in cortical bone.*
University of Akron, Integrated Biosciences PhD Program Lecture Series.
- 2018 *3D cortical bone analyses and its bioarchaeological applications.* Participation
and Lecture at Histomorphology Workshop, Autonomous University of
Yucatan, Merida, Mexico.
- 2016 *Skeletal biology in anthropology combining macro- and microscopic
perspectives for analysis of cortical bone.* Max Planck Institute of Colloids and
Interfaces, Biomaterials Program, Potsdam, Brandenburg, Germany
- 2015 *Histological age determination in human bone.* Paleo-histopathology workshop,
Universidad Autónoma de Yucatán, Mérida, Mexico
- 2010 *Histomorphometric analysis of the endosteal lamellar pocket: Localized
variation in compact bone microarchitecture in a Mexican cadaveric sample.*
Histology in Bioarchaeology Workshop, Universidad Autónoma de Yucatán,
Mérida, Mexico
- 2005 *Introduction into bone biomechanics and long bone cross-sectional analyses.*
Presentation at the Facultad de Ciencias Antropológicas, Universidad Autónoma de
Yucatán, Mérida, Mexico

PROFESSIONAL MEMBERSHIPS

American Association of Physical Anthropologist (AAPA)
Canadian Association for Physical Anthropology (CAPA)
German Society for Anthropology (GFA)
Paleopathology Association (PPA)