

CURRICULUM VITAE

Name: Samuel Darrel Stout
Address: Department of Anthropology
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The Ohio State University
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Education:

Ph.D. 1976 Washington University, St. Louis, Missouri
Major: Anthropology
Subfield: Physical Anthropology
Dissertation: "Histomorphometric Analysis of Archeological Skeletal Populations"
M.A. 1968 Florida State University, Tallahassee, Florida
Major: Anthropology
B.S. 1966 Florida State University, Tallahassee, Florida
Major: Biology
Minors: Anthropology and Chemistry

Administrative Experience:

1998-2000 Chair, Department of Anthropology, University of Missouri-Columbia
1987-1992 Chair, Department of Anthropology, University of Missouri-Columbia
1981-1983 Vice Chair and Director of Graduate Studies, Department of Anthropology, University of Missouri-Columbia

General Academic Experience:

2006- Professor, Department of Anthropology, Ohio State University
2001-2006 Professor (part-time), Department of Anthropology, Ohio State University
2000- Professor Emeritus, Department of Anthropology, University of Missouri
1988 - 2000 Professor, Department of Anthropology, University of Missouri
1981 - 1987 Associate Professor, Department of Anthropology, University of Missouri
1976 - 1980 Assistant Professor, Department of Anthropology, University of Missouri
1973 Lecturer, University of Missouri-St. Louis Department of Anthropology
1969 - 1972 Instructor, University of South Florida, Tampa, FL, Department of Anthropology
1968 - 1969 Research Biologist, United States Air Force Arctic, Desert, Tropic Information Center, Maxwell AFB, Alabama (This work involved research into survival techniques for Air Force personnel in hostile environments.)

Forensic Anthropology Related Experience:

1981-2000	Director, Department of Anthropology Human Skeletal Identification Laboratory, UMC
1992-2000	Adjunct Professor, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine
1991-1993	St. Louis University Death Investigation Faculty
1989-1998	Commissioner, State of Missouri Unmarked Human Burial Consultation Committee (gubernatorial appointment)

Publications:

Articles in Refereed Journals

- Peck JJ, Stout SD. 2008. The effects of total hip arthroplasty on the structural and biomechanical properties of adult bone. *American Journal of Physical Anthropology*. In Press.
- Peck, J. and Stout, S.D. (2007) Intraskelatal Variability in Bone Mass. *American Journal of Physical Antropology* 132(1):89-97.
- Cho, H., Stout, S.D., Bishop, T.A. (2006) A Comparison of Cortical Bone Remodeling Rates between African American and European American Skeletal Remains. *American Journal of Physical Anthropology* 130:214-226.
- Cho, H., Stout, S.D., Streeter, J; and Madsen, R.W. (2002) Population-Specific Histological Age-Estimating Method: A model for known African-American and European-American Skeletal Remains. *Journal of Forensic Sciences* 47(1):12-18.
- Streeter, M, Stout, SD, Trinkaus, E., Stringer, CB, Roberts, MB, and Parfitt, SA (2001) Histomorphometric Age Assessment of the Boxgrove 1 Tibial Diaphysis. *Journal of Human Evolution* 40(4):331-338.
- Stout, S.D., Brunsdn, B., Hildebolt, C., Commean, P., Smith, K., and Tappen, N.C. (1999) Computer Assisted 3D Reconstruction of Serial Sections of Cortical Bone to Determine the 3D Structure of Osteons. *Calcified Tissue International* 65:280-284.
- Robling, A. and Stout, SD (1999) Morphology of Drifting Osteons. *Cells, Tissues and Organs* 164:192-204.
- Iwaniec, UT, Crenshaw, TD, Schoeninger, MJ, Stout, SD, and Ericksen, MF (1998) Methods for Improving the Efficiency of Estimating Total Osteon Density in the Human Anterior Mid-Diaphyseal Femur. *American Journal of Physical Anthropology* 107:13-24.
- Stout SD, Porro MA, and Perotti B (1996) Brief Communication: A Test and Correction of the Clavicle Method of Stout and Paine for Histological Age Estimation of Skeletal Remains. *American Journal of Physical Anthropology* 100(1)139-142.
- Stout, SD and Lueck R (1995) Bone remodeling rates and maturation in three archaeological skeletal populations. *American Journal of Physical Anthropology* 98(2):161-171.
- Stout, SD, Dietze, WA, İş can MY and Loth SR (1994) Estimation of age at death using cortical histomorphometry of the sternal end of the fourth rib. *Journal of Forensic Sciences* 39 (3):778-784.
- Stout, SD and Paine, RR (1994) Bone Remodeling Rates. A Test of an Algorithm for Estimating Missing Osteons. *American Journal of Physical Anthropology* 93:123-129.
- Stout SD, and Paine RR (1992) Histological age estimation using the rib and clavicle. *American Journal of Physical Anthropology* 87:111-115.
- Stout SD, and Stanley SC (1991) Percent osteonal bone vs. osteon counts: the variable of choice for estimating age at death. *American Journal of Physical Anthropology* 86:515-520.
- Dix J, Stout SD, and Moseley J (1991) Bones, Blood, Pellets, Glass and no Body.

Journal of Forensic Sciences 36(3):949-952.

- Stout SD, and Ross L. (1991) Bone Fragments a Body Can Make. *Journal of Forensic Sciences* 36(3):953-957.
- Dunn R, and Stout SD (1991) A Unique Case of Congenital Bilateral Absence of Parietal Bones in an Infant. *Journal of Forensic Sciences* 36:593-598.
- Stout SD (1988) The use of histomorphology to estimate age. *Journal of Forensic Science*. 33(1):121-125.
- Stout SD. (1986) The use of bone histomorphometry in skeletal identification: The case of Francisco Pizarro. *Journal of Forensic Sciences* 31 (1):296-300.
- Stout SD, and Gehlert SJ (1982) Effects of field size when using Kerley's histological method for determination of age at death. *American Journal of Physical Anthropology*. 58: 123-125.
- Stout SD (1982) The effects of long-term immobilization on the histomorphology of human cortical bone. *Journal of Calcified Tissue International*. 34:337-342.
- Stout SD, and Gehlert SJ (1980) The relative accuracy and reliability of histological aging methods. *Journal of Forensic Science International*. 15:181-190.
- Stout SD (1979) The use of histomorphology to identify individuals among mixed skeletal remains. *Current Anthropology*. 20:803-805.
- Stout SD (1978) Histological structure and its preservation in ancient bone. *Current Anthropology*. 19:601-603.
- Stout SD, and Teitelbaum SL (1976) Histomorphometric determination of formation rates of archaeological bone. *Journal of Calcified Tissue Research*. 21:163-169.
- Stout SD, and Teitelbaum SL (1975) Histological analysis of undecalcified thin sections of archeological bone. *American Journal of Physical Anthropology*. 44:263-270.

Book Chapters:

- Stout, SD (2008) Small Bones of Contention. In Steadman, DW, (ed.): *Hard Evidence: Case Studies in Physical Anthropology (Second Edition)*. Prentice Hall, 234-244.
- Robling, AG, and Stout, SD (2008) Methods of determining age at death using bone microstructure. In Katzenberg, MA and Saunders, SR (eds.): *Biological Anthropology of the Human Skeleton (Second Edition)*. New York: Wiley-Liss, 149-171. (updated)
- Stout, SD and Streeter, M (2006) Histomorphometric Analysis of the Cortical Bone of the Rib of Hanaab-Pakal. Tiesler, V and Cucina, A (eds): *Studying Janaab'Pakal and Recreating Maya Dynastic History*. University of Arizona Press.
- Stout, SD and Streeter, M (2004) Un Analisis Histomorfologico del Hueso Cortical de la Costilla de Janaab'Pakal. Tiesler, V and Cucina, A (eds): *Janaab'Pakal De Palenque: Vida Y Muerte De Un Gobernante Maya*. Universidad National Automoma de Mexico.
- Robling, AG and Stout, SD (2003) Histomorphology, geometry, and mechanical loading in past populations. In Agarwal, S and Stout, SD (eds): *Bone Loss and Osteoporosis: An Anthropological Perspective*. New York: Kluwer Academic/Plenum Publishers, 189-205.
- Cho, H and Stout, SD (2003) Bone Remodeling And Age-Associated Bone Loss In The Past: An Histomorphometric Analysis Of The Imperial Roman Skeletal Population Of Isola Sacra. In Agarwal, S and Stout, SD (eds): *Bone Loss and Osteoporosis: An Anthropological Perspective*. New York: Kluwer Academic/Plenum Publishers, 207-228.
- Streeter, M and Stout, SD (2003) The Histomorphometry Of The Subadult Rib: Age-Associated Changes In Bone Mass And The Creation Of Peak Bone Mass. In Agarwal, S and Stout, SD (eds): *Bone Loss and Osteoporosis: An Anthropological Perspective*. New York: Kluwer Academic/Plenum Publishers, 91-101.
- Stout, SD (2003) Small Bones of Contention. In Steadman, DW, (ed.): *Hard Evidence: Case*

- Studies in Physical Anthropology*. Prentice Hall, 234-244.
- Robling, AG, and Stout, SD (2000) Methods of determining age at death using bone microstructure. In Katzenberg, MA and Saunders, SR (eds.): *Biological Anthropology of the Human Skeleton*. New York: Wiley-Liss, 187-205.
- Stout SD (1998) Estimating Time Since Death: The use of Histological Methods in Forensic Anthropology. KJ Reichs (Ed) *Forensic Osteology II*, Charles C. Thomas, pp.237-252.
- Stout SD (1992) Methods of determining age at death using bone microstructure. In SR Saunders and MA. Katzenberg (eds.): *Skeletal Biology of Past Peoples: Advances in Research Methods*. New York: Wiley-Liss, pp.21-35.
- Stout SD (1989) The use of cortical bone histology to estimate age at death. In MY Iscan (ed.): *Age Markers in the Human Skeleton*. Illinois: Charles C. Thomas, pp.195-207.
- Stout SD (1989) Histomorphometric analysis of human skeletal remains. In KK Kennedy, and MY Iscan (eds.): *Reconstruction of Life from the Skeleton*. New York: Alan R. Liss, pp. 41-52.
- Stout SD, and Teitelbaum SL. (1975) Histological analysis of rib bone from the 1600 year old frozen cadaver of an Eskimo female. Park Service Report.

Edited Books:

- 2003 Agarwal, S and Stout, SD (eds): Bone Loss and Osteoporosis: An Anthropological Perspective. New York: Kluwer Academic/Plenum Publishers.

Symposiums and Workshops:

- 2008 Reconstructing Health and Disease from Skeletal and Dental Biology: New Perspectives, New Insights. Wiley-Liss Symposium. (Co-sponsored by Gesellschaft für Anthropologie). Seventy-Seventh Annual Meeting of the American Association of Physical Anthropologists, Columbus OH. (Co-organizer with M Schultz, CS Larsen, and U Wittwer-Backofen)
- 2006 Forensic Bone Histology, American Academy of Forensic Sciences 58th Annual Meetings, Seattle, Washington.
- 2006 Invited workshop on histological methods of age determination. U.S. Army JOINT POW/MIA, Accounting Command, Hickam AFB, Hawaii.
- 2005 Forensic Bone Histology, American Academy of Forensic Sciences 57th Annual Meetings, New Orleans, LA.
- 2001 Age related bone loss: an Anthropological Perspective. Symposium held at the annual meetings of the American Association of Physical Anthropologists. (Co-organizer with S Agarwal)
- 2000 Current and Future Applications of Bone Histology To Biological Anthropology. Symposium held at American Association of Physical Anthropologists. (Co-organizers NL Rogers and M Streeter)
- 1999 Invited workshop on histological methods of age determination. U.S. Army Central Identification Laboratory (CILHI), Hickam AFB, Hawaii.

Published Abstracts (Last 10 years):

- 2006 Sam D. Stout and Haagen D. Klaus: Age Estimation and Paleohistology of a Late Pre-Hispanic Elite: Demography and Health Among the Sicàn Leadership, Lambayeque Valley, Peru. *American Journal of Physical Anthropology* Supplement 42: 172.
- 2006 Joshua Peck and Sam D. Stout: Skeletal Response to Total Hip Arthroplasty in Skeletally Mature Individuals: The Effects of Stress Shielding on Bone Mass and Biomechanical Integrity of the Mid-Shaft Femur. *American Journal of Physical Anthropology* Supplement 42: 145.

- 2006 Margaret Streeter and Sam D. Stout: Age Estimation Method for the Subadult Rib Cortex. *American Journal of Physical Anthropology* Supplement 42: 173.
- 2006 Eborrah C. Pinto, Samuel D. Stout, Meghan-Tomasita J.R. Cosgriff-Hernandez, Lara E. McCormick: Reassessing Oseitis Deformans (Paget's Disease) in a Pre-Contact Population at the Briarwoods Site, Gulf Coast, Florida. *American Journal of Physical Anthropology* Supplement 42: 147.
- 2005 H.L. Ramsay, S.D. Stout, J.E. Buikstra: Bone Density Differences in Rib and Iliac Crest Samples from a Modern and Archaeological Peruvian Population. *American Journal of Physical Anthropology* Supplement 40: 172.
- 2005 J. Peck and S.D. Stout: Intraskelatal Variability in Bone Mass. *American Journal of Physical Anthropology* Supplement 42: 164.
- 2002 H. Cho and S.D. Stout: Age-Related Bone Loss and Intraskelatal Variability in the Imperial Romans. *American Journal of Physical Anthropology* Supplement 34: 53.
- 2001 H. Cho and S.D. Stout: Age-Associated Bone Loss in an Imperial Roman Population. *American Journal of Physical Anthropology* Supplement 32: 49.
- 2001 M. Streeter and S.D. Stout: Change in Bone Mass in Subadults. *American Journal of Physical Anthropology* Supplement 32: 145.
- 2000 M. Streeter, S.D. Stout, E. Trinkaus: Histological Stress Indicators in Late Pleistocene Hominid Diaphyseal Bone. *American Journal of Physical Anthropology* Supplement 30:295.

Papers Presented At Professional Meetings (Last 10 years):

- 2008 The combined use of cortical, endosteal, and trabecular bone histomorphometry to assess health and disease in ancient skeletal Remains. Stout SD, Peck J, Pinto L, McCormick, L In *Reconstructing Health and Disease from Skeletal and Dental Biology: New Perspectives, New Insights*. Wiley-Liss Symposium. (Co-sponsored by Gesellschaft für Anthropologie). Seventy-Seventh Annual Meeting of the American Association of Physical Anthropologists, Columbus OH.
- 2008 Identification of a distinct histomorphological feature of long bones: Potential applications in paleopathology and bioarchaeology. Maggiano CM, Maggiano IS, Kierdorf V, Tielser Blos V, Stout S, Schultz, M. In *Reconstructing Health and Disease from Skeletal and Dental Biology: New Perspectives, New Insights*. Wiley-Liss Symposium. (Co-sponsored by Gesellschaft für Anthropologie). Seventy-Seventh Annual Meeting of the American Association of Physical Anthropologists, Columbus OH.
- 2008 Sternal Rib Histomorphometry: A Test of the Age Estimation Method of Stout et al. (1994). Stout SD, Pinto D, McCormick L, Cosgriff-Hernandez MC, Crescimanno AC. 60th Anniversary Meeting of the American Academy of Forensic Sciences. Washington DC.
- 2008 Evidence of Scurvy in Medieval Eastern Europe—A Possible Case from Giecz, Poland. Agnew AM, Justice HM, Stout SD. 35th Annual Meeting (North America) of the Paleopathology Association, Columbus, OH. (2008)
- 2008 Differential Diagnosis for an Unidentified Orbitofrontal Defect in the Early Medieval (XI—XIIC) Cemetery in Giecz, Poland. Justus HM, Agnew AM, Stout SD 35th Annual Meeting (North America) of the Paleopathology Association, Columbus, OH.
- 2007 A.M. Agnew, M. Streeter, S.D. Stout: Histomorphological ageing of subadults: A test of Streeter's method on a medieval archaeological population. American Association of Physical Anthropologists.
- 2006 Sam D. Stout and Haagen D. Klaus: Age Estimation and Paleohistology of a Late Pre-Hispanic Elite: Demography and Health Among the Sicàn Leadership, Lambayeque Valley, Peru. American Association of Physical Anthropologists.
- 2006 Joshua Peck and Sam D. Stout: Skeletal Response to Total Hip Arthroplasty in Skeletally

- Mature Individuals: The Effects of Stress Shielding on Bone Mass and Biomechanical Integrity of the Mid-Shaft Femur. American Association of Physical Anthropologists.
- 2006 Joshua J. Peck, Erica Tyler, Donald J. Ortner, Sam D. Stout: A Possible Case of Brucellosis in Roman Britain. 33rd Annual Meeting of the Paleopathology Association.
- 2006 Margaret Streeter and Sam D. Stout: Age Estimation Method for the Subadult Rib Cortex. American Association of Physical Anthropologists.
- 2006 Deborah C. Pinto, Samuel D. Stout, Meghan-Tomasita J.R. Cosgriff-Hernandez, Lara E. McCormick: Reassessing Oseitis Deformans (Paget's Disease) in a Pre-Contact Population at the Briarwoods Site, Gulf Coast, Florida. American Association of Physical Anthropologists.
- 2005 H.L. Ramsay, S.D. Stout, J.E. Buikstra: Bone Density Differences in Rib and Iliac Crest Samples from a Modern and Archaeological Peruvian Population. American Association of Physical Anthropologists.
- 2005 J. Peck and S.D. Stout: Intraskelatal Variability in Bone Mass. American Association of Physical Anthropologists.
- 2003 S. D. Stout and M. Streeter: An Histomorphometric Analysis of the Cortical Bone of the Rib of Hanab Pakal. Society for American Archaeology.
- 2002 H. Cho and S.D. Stout: Age-Related Bone Loss and Intraskelatal Variability in the Imperial Romans. American Association of Physical Anthropologists.
- 2001 H. Cho and S.D. Stout: Age-Associated Bone Loss in an Imperial Roman Population. American Association of Physical Anthropologists.
- 2002 M. Streeter and S.D. Stout: Change in Bone Mass in Subadults. American Association of Physical Anthropologists.
- 2003 M. Streeter, S.D. Stout, E. Trinkaus: Histological Stress Indicators in Late Pleistocene Hominid Diaphyseal Bone. American Association of Physical Anthropologists.
- 1999 H. Cho, S.D. Stout, M. Streeter: Population-specific histological age estimating method: A test. American Association of Physical Anthropologists.
- 1998 Iwaniec et al.: Patterns of cortical bone remodeling in Inuits and Pueblo agriculturalists. American Association of Physical Anthropologists.
- 1998 A. Robling and S.D. Stout: Morphology of drifting osteons. American Association of Physical Anthropologists.
- 1998 N.L. Rogers, S.D. Stout: Selecting a calibration method to reduce bias in histological aging methods. American Association of Physical Anthropologists.
- 1997 Stout, S.D. et al.: The use of 3-D computerized reconstruction to facilitate the analysis of cortical bone histomorphometry. American Association of Physical Anthropologists.
- 1997 H. Cho, S.D. Stout: Population-specific histological age estimating method: a comparison of European-American and African-American rib samples. American Association of Physical Anthropologists.
- 1996 S.D. Stout: A comparison of bone remodeling rates between prehistoric and modern skeletal remains. Gesellschaft für Anthropologie, Berlin, Germany
- 1996 M. Streeter, S.D. Stout, E. Trinkaus: Histomorphometric analysis Of Pleistocene hominid ribs. American Association of Physical Anthropologists.
- 1996 U. Iwaniec, TD Crenshaw, MJ Schoeninger, S.D. Stout: Predicting bone remodeling activity in the anterior mid-diaphyseal femur anterior area subsamples. American Association of Physical Anthropologists.

Recent Unpublished Forensic Cases and Reports:

- 2008 Recovery of human remains for Columbus Ohio Police Department. An osteological and histological analysis of the recovered remains was undertaken and a report submitted to the Franklin County Coroner's Office.

- 2008 Recovery of human remains from Perry County, Ohio. An osteological and histological analysis was undertaken and a report submitted to the Perry County Sheriff's Office and Franklin County Coroner's Office.
- 2007 Report of histological analysis of bone (femur) sample recovered from Sall Saints, Shelley, England. The analysis was undertaken to confirm that remains recovered from the church are those of Elizabeth Tliney, sister of Bartholomew Gosnold whose remains were recovered during the "Jamestown Rediscovery." Agency: National Museum of Natural History, Smithsonian Institution.
- 2004 Report of results of my analysis of bone (femoral) samples recovered from the 8 individuals recovered from the Confederate Submarine H.L. Hunley. Agency: National Museum of Natural History, Smithsonian Institution.
- 2005 Report of results of histological age estimation for an isolated human femora. Case received from Dr. Robert Whitmore, Office of the Medical Examiner, San Diego, CA.
- [Over 19 years as Director of the University of Missouri Human Skeletal Identification Laboratory over **60 forensic reports** were submitted to various state and federal agencies.]

Theses and Dissertations Directed:

- 2006 Amanda Agnew: Histomorphological aging of subadults: A test of streeter's method on a medieval archaeological population. M.A. Thesis, Department of Anthropology, The Ohio State University.
- 2005 Josh Peck: Intraskkeletal variation in bone mass. M.A. Thesis, Department of Anthropology, The Ohio State University.
- 2005 Emily Middleton: Intra-Skeletal Variability in Osteon Size. Senior Honors Thesis, Department of Anthropology, The Ohio State University.
- 2005 Margaret A. Streeter: Histomorphometric Characteristics of the Sub-Adult Rib Cortex: Normal Patterns of Dynamic Bone Modeling and Remodeling During Growth and Development. Ph.D. dissertation, Department of Anthropology, University of Missouri.
- 2002 Helen Cho: Age-Associated Bone Loss in an Imperial Roman Population: An Histological Analysis of Inter-Skeletal and Intra-Skeletal Variability. Ph.D. dissertation, Department of Anthropology, University of Missouri.
- 2001 Kristina Hayen: A Comparison of Age-Associated Bone Loss in Archaeological and Modern Populations. M.A. thesis, Department of Anthropology, University of Missouri.
- 1999 Margaret Streeter: Histomorphometric Analysis of Pleistocene Hominid Fossil Bone. M.A. thesis, Department of Anthropology, University of Missouri.
- 1995 Alexander G. Robling: Histomorphometric Assessment of Mechanical Loading History From Human Skeletal Remains: The Relation Between Micromorphology and Macromorphology at the Femoral Midshaft. Ph.D. dissertation, Department of Anthropology, University of Missouri.
- 1994 Christine Ruth: Intraskkeletal Variability in Osteon Population Density: A Comparison of Tetracycline-Based and Static Histomorphometry. M.A. research paper, Department of Anthropology, University of Missouri.
- 1993 William H. Dietze: Estimation of Age at Death Using Cortical Histomorphometry of the Sternal End of the Fourth Rib. M.A. research paper, Department of Anthropology, University of Missouri.
- 1990 Robert Dunn: A Unique Case of Congenital Bilateral Absence of Parietal Bones in a Neonate. M.A. thesis, Department of Anthropology, University of Missouri.
- 1986 Sarah C. Stanley: Percent Osteonal Bone Versus Osteon Counts: The Variable of Choice for Estimating Age at Death. M.A. research paper, Department of Anthropology, University of Missouri.

1985 Louis S. Kidder: The Intraskelatal Variability of Type II and Double Zone Osteons. M.A. research paper, Department of Anthropology, University of Missouri.

External Ph.D. Dissertation Committee Member:

2005 David Cooper: 3D Micro-CT Imaging of Human Cortical Bone Porosity: A Novel Method for Estimating Age at Death. Ph.D. dissertation, Department of Archaeology, University of Calgary, Canada.

2000 Sabrina Agarwal: Influence of Age and Sex on Trabecular Architecture and Bone Mineral Density in Three British Historical Populations. Ph.D. dissertation, Department of Anthropology, University of Toronto.

Invited Lectures and Honors:

2006 Workshops on Histomorphometric Methods and Age Estimation in Bioarchaeology. Facultad de Ciencias Antropológicas Universidad Autónoma de Yucatán.

1998 Application of cortical bone histomorphometry in bioarchaeology, paleontology, and forensic anthropology. Department of Anthropology, University of Georgia

1996 Visiting Scholar, Università di Roma 'La Sapienza', Italy

1996 Congress of the Gesellschaft für Anthropologie, Oct. 3-6, 1996, Berlin, Germany. "main speaker" for *Prehistoric Anthropology: Microscopic Aspects* section.

1996 Department of Anthropology of the University of Tennessee Visitor Lecture Program.

International Research Collaboration:

Facultad de Ciencias Antropológicas Universidad Autónoma de Yucatán Drs. Ongoing collaboration with Drs. Vera Tiesler and Andrea Cucina relating to histological analyses of Mayan skeletal remains. Previous work included the analysis of the remains of Hanab (Janaab') Pakal from the temple of Palenque.

Professional Affiliations:

American Association for the Advancement of Science

American Academy of Forensic Sciences (Fellow)

American Association of Physical Anthropologists

International Society of Bone and Mineral Research

Paleopathology Association

Sigma Xi Scientific Research Society