

Curriculum Vitae

Joan A. Bytheway, Ph.D.

Assistant Professor

Sam Houston State University

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EDUCATION: B.A., 1995 Physical Anthropology, Summa Cum Laude, University of Pittsburgh
Ph.D. 2003 Physical Anthropology, University of Pittsburgh
“Sex Determination of the Adult Human Fragmented Pelvis Utilizing Euclidean Distance Matrix Analysis”

MAJOR AREA OF ACADEMIC SPECIALIZATION: Forensic Anthropology/ Human Osteology
MINOR AREA OF ACADEMIC SPECIALIZATION: Human trauma and pathology

COURSES TAUGHT:

Introduction to Forensic Science	Introduction to Physical Anthropology
Forensic Anthropology	Human Skeletal Analysis
Ethics and Quality Assurance in Forensic Science	
Human Anatomy and Physiology	Introduction to Physical Anthropology: an Overview
Introduction to Anthropology	Proseminar in Forensic Science

ADDITIONAL EDUCATION:

2002 Survival Skills and Ethics Workshops, University of Pittsburgh
2001 Human Remains: Search, Recovery and Identification, University of New Orleans
2000 Practical Applications in Forensic Anthropology, University of New Orleans
1996 Internship, Allegheny County Coroner’s Office, Pittsburgh, Pennsylvania
1996 Laboratory Methods in Forensic Anthropology, Mercyhurst College, Pennsylvania
1996 Workshop in Forensic Anthropology, University of Southern California

PROFESSIONAL AFFILIATIONS:

- Member, American Academy of Forensic Science
- Member, American Association of Physical Anthropology
- Member, International Association of Identification
- Society of Forensic Anthropology

FELLOWSHIPS AND AWARDS:

- 2002** Beyond the Call of Duty Award, University of Pittsburgh
1998 Graduate Teaching Excellence Award, University of Pittsburgh
1998 Graduate School Teacher's Fellowship, University of Pittsburgh
1997 Graduate School Teacher's Fellowship, University of Pittsburgh
1996 Graduate School Teacher's Assistantship, University of Pittsburgh

GRANTS

- 2008** Bureau of Justice Travel Scholarship
2008 InnovX-systems X-ray Fluorescence Academic and Research Relations
2008 Southeast Texas Applied Forensic Science Human Decomposition Center
2008 Enhancement Grant for Research, Sam Houston State University
2008 Research Facility Development Grant, Sam Houston State University
1996 Summer grant, University of Pittsburgh

RESEARCH INTERESTS:

Logistical processing of mass fatalities in the laboratory
Blunt Force Trauma of the Os Coxae
Sex determination of the fragmented os coxa utilizing 3-D data
Digitization of race characteristics in the human skull
Taphonomy

EMPLOYMENT HISTORY:

- 2006 to present Assistant Professor, College of Criminal Justice, Chemistry and Forensic Science, Sam Houston State University, Huntsville, Texas
2006 Adjunct Professor, Department of Anthropology, University of Houston, Houston, Texas
2005 Forensic Anthropologist/Lab Analyst, Mass Graves, Baghdad, Iraq
2004 Adjunct Faculty, Department of Anthropology, California University of Pennsylvania, Pennsylvania
2002-2004 Research Associate, Primate Research Center, University of Pittsburgh, Pittsburgh
1997- 2004 Adjunct Faculty, Department of Anthropology, University of Pittsburgh, Greensburg

FIELD/LAB EXPERIENCE:

- 2007 to present Forensic Anthropologist, Montgomery County Sheriff's Office
March 2006 to present Forensic Anthropologist, Galveston County Medical Examiner's Office.
January - July 2005 Forensic Anthropologist. Reconstruction and analysis of skeletal remains of individuals of the Iraqi population found in mass graves. Baghdad, Iraq.
July 2005 Co-designer. Mass Graves Proposal presented to the United States Department of Justice, Washington, D.C.
April 2005 Author. Power point presentation presented to all visitors at the Iraqi Mass Graves Laboratory. Baghdad, Iraq.

- April 2005 Forensic Anthropologist Lab Analyst participant in *Discovery Times* documentary “A Case Against Saddam” airing June 2005.
- March 2001– present Project Osteologist. Exhumation, reconstruction and analysis (including research, cataloguing and record keeping) of Monongahelan Indian skeletal remains dating 1300 BP. Coordinated through Carnegie Museum and Westmoreland County Archeological Society, Irwin, Pa.
- May 2001-July 2001 Project Manager. Preparation and burial of human skeletal remains, Greensburg, Pa.
- June 2000 Forensic Anthropologist. Search for missing person and analysis of faunal skeletal remains. Westmoreland County Sheriff’s Department, Washington, Pa.

PUBLICATIONS

Peer-Reviewed Journals

“A Geometric Morphometric Approach to Sex Determination of the Adult Human Os Coxa”
American Journal of Physical Anthropology, under review

“Insect successional pattern of a corpse in cooler months of subtropical southeastern Texas: A case report” J Forensic Sci Accepted (March 2009)

Book Review: Forensic Anthropology and Medicine: Complementary Sciences from recovery to cause of death J Forensic Sci. May Vol 52 (3) pp 746-747 2007

Thesis

“Sex Determination of the Adult Human Fragmented Pelvis Using Euclidean Distance Matrix Analysis”
Doctoral Thesis, University of Pittsburgh 2003

Course Book

“Introduction to Physical Anthropology: An Overview” External Studies Course Book, University of Pittsburgh 1997

ABSTRACTS

WHAT LIES BENEATH: RE-EXAMINING A COLD CASE HOMICIDE FROM A FORENSIC ANTHROPOLOGICAL PERSPECTIVE: A CASE REPORT Joan A. Bytheway¹, Kathryn Moss², Stephen M. Pustilnik³, Sam Houston State University, College of Criminal Justice¹, University of Houston, Anthropology Department², Galveston County Medical Examiner’s Office³.

SKELETAL REMAINS IN A FLUVIAL ENVIRONMENT: MICROSCOPIC EVIDENCE OF GLYCOPROTEINOUS ADHESIVE OF *BALANUS IMPROVISUS* ON THE OCCLUSAL SURFACE OF MANDIBULAR TEETH Amanda Johnson¹, Joan A. Bytheway², Stephen M. Pustilnik³, Sam Houston State University, College of Criminal Justice^{1,2}, Galveston County Medical Examiner’s Office³.

FORENSIC LOGISTIC LABORATORY PROCESS OF THE MASS FATALITY UTILIZING SUPPLY-CHAIN OPERATIONS REFERENCE MODEL, J.A. Bytheway¹, R.D. Bytheway². Criminal Justice, Sam Houston State University¹, Satellite Logistics Group, Houston, Texas².

3-D LANDMARK COORDINATE DATA SEX DETERMINATION OF THE ADULT HUMAN FRAGMENTED OS COXA AND THE POTENTIALITY OF EUCLIDEAN DISTANCE MATRIX ANALYSIS. Joan Bytheway, Anthropology, University of Pittsburgh.

SEX DETERMINATION OF THE ADULT HUMAN FRAGMENTED PELVIS USING EUCLIDEAN DISTANCE MATRIX ANALYSIS J.A. Bytheway, Anthropology, University of Pittsburgh.

TRAUMA, PATHOLOGY, AND NON-METRIC VARIANTS IN A MONONGAHELAN INDIAN POPULATION J.A. Bytheway, Anthropology, University of Pittsburgh

EXERCISE TRAINING LEADS TO INCREASED PARTICIPATION IN COGNITIVE TESTING IN FEMALE CYNOMOLGUS MONKEYS. J.A. Bytheway*^{1,2}, H.Lange³, J. Lamb³, K. McCormick³, N.I. Williams⁴, W.T. Greenough⁵, and J.L. Cameron¹. Depts. Psychiatry¹, Anthropology², Neuroscience³, Univ. Pittsburgh, Pittsburgh, PA 15213; Pennsylvania State Univ.⁴, and Univ. Illinois at Champaign-Urbana⁵.

TECHNICAL REPORTS

Forensic Report 2006 to present	Biological Profiles of various cases at Galveston County Medical Examiner's Office, Texas City, Texas
Forensic Report 2005	Osteological Analysis of skeletal remains from the mass grave site Ninawa0002, near Al Hatra, Iraq. Initially examined by CID. Submitted to RCLO, Army Corps of Engineers, St. Louis, Missouri
Forensic Report 2005	Osteological Analysis of skeletal remains from the mass grave, Province of Maysan, Iraq. Submitted to the United States Army Corp of Engineers, St. Louis, Missouri, United States Department of Justice, Washington D.C. and the Iraqi Special Tribunal, Baghdad, Iraq.
Forensic Report 2005	Osteological analysis of skeletal remains from the mass grave, Muthana Province, Iraq. Submitted to Regime Crimes Liaison Office, United States Embassy, Baghdad, Iraq and the United States Army Corps of Engineers, St. Louis, Missouri

PRESENTATIONS AND POSTERS

June 2007	"Forensic Science" Criminal Justice Summer Camp, Sam Houston State University, Huntsville, Texas
September 2006	"Forensic Anthropology" Sam Houston State University, Huntsville, Texas
January 2006	"Voices out of the Desert: Victims of Saddam Hussein Finally Speak", University of Pittsburgh, Greensburg
January 2006	"Forensic Anthropology, Mass Graves in Iraq" Greensburg Rotary Club, Greensburg, Pennsylvania
December 2005	"Mass Graves in Iraq" Hohnsberger Live, Television broadcast
December 2004	"The Gift of So Many: Bioarchaeology at the Consol Site"
July 2004	"Forensic Art: Facial Reconstruction", California University of Pennsylvania

SERVICES

Sept 2008	Student Recruitment and Development Committee, Chair, Sam Houston State University
Sept 2008	Women's Advisory Committee, Member, Sam Houston State University
June 2008	

	Forensic Anthropology Laboratory Accreditation Committee, Member, Society of Forensic Anthropology
June 2008	International Association of Identification, Texas Division, Keynote Speaker
March 2008	“Let’s Talk!” A Night of Conversation “Voices Out of the Desert: Mass Grave Victims of Saddam Hussein’s Regime Tell the Details of their Death Through Skeletal Remains”, Sam Houston State University
2008	Scholarship Committee, Sam Houston State University
2008	“Crack the Case in CSI: The Experience”, Consultant, Houston Museum of Natural Science, Houston, Texas
2007 to present	Academic Advisor, Phi Sigma Pi, Sam Houston State University
2007 to present	Student Disciplinary Hearing Committee, Sam Houston State University
2006 to present	Forensic Science Committee, Sam Houston State University
2006 to present	Student Recruitment and Development Committee, Sam Houston State University
2007	Forensic Anthropology analysis of cases, Montgomery County Sheriff’s Office
2006 to present	Forensic Anthropology analysis of forensic cases, Galveston County Medical Examiner’s Office
2005	Peer Reviewer of 131 forensic cases
2005	Author, Standard Operating Procedures for DNA collection procedures in Mass Graves.
2005	Co-author, Standard Operating Procedures for Forensic Anthropology analysis of Mass Graves
2004	Reviewer, American Journal Physical Anthropology
2004	Judge, Student’s Scholarship and Creative Poster Presentations, California University of Pennsylvania