

CERTIFICATION

Certified Latent Print Examiner, International Association for Identification (# 04-24, expires 09/2014)
POST Academy Instructor Certification, Level 1

EDUCATION

2012 PhD Anthropology, University of California, Santa Cruz
1998 MA Anthropology, University of Tennessee, Knoxville
1993 BA Anthropology, University of California, Santa Cruz

AREAS OF SPECIALIZATION

Crime scene documentation, processing and investigation; evidence collection and preservation; forensic anthropology laboratory analysis; skeletal trauma; bone and dental histology; forensic fingerprint and latent print automated searching, processing, and examination.

COURT EXPERIENCE

Court qualified as an expert in forensic anthropology and latent print / fingerprint automated database searching, processing and examination.

PROFESSIONAL EXPERIENCE

4/2008 – Current SANTA CRUZ COUNTY SHERIFF’S OFFICE, Santa Cruz, California
Latent Print Examiner / Forensic Anthropologist

- Latent print processing (ALS, chemical, and powder), examination, and comparison
- Manage the Santa Cruz County Latent Print Program
- Automated Fingerprint Identification System (AFIS) Administrator
- Remote Access Network (RAN) Trust Project Manager; including Mobile ID
- Develop and implement policy and procedures relevant to forensic fingerprint examination and biometrics acquisition
- Provide training on AFIS and Live Scan related procedures and equipment
- Provide training on how to recognize, develop, document and preserve latent print evidence
- Forensic anthropological crime scene investigation and laboratory analysis

1999 – Current FORENSIC OSTEOLOGICAL INVESTIGATIONS LABORATORY, UNIVERSITY OF CALIFORNIA, Santa Cruz
Forensic Anthropologist

- Crime scene investigation, recovery, analysis, and identification of skeletal remains
- Research Associate (1999 – 2006), Doctoral Student (2006 – 2012), Post-doc (2012 – current).

2001 – 2008 MONTEREY COUNTY SHERIFF’S OFFICE, Salinas, California
Forensic Evidence Technician / Forensic Anthropologist
(part-time as of 2005)

- Latent print processing (ALS, chemical, and powder), examination, and comparison
- Crime scene investigation, photography (video, 35mm and digital), and evidence collection
- AFIS searches
- Forensic anthropological analysis
- Prepared court exhibits and provided court testimony
- Provided training on methods of crime scene investigation and forensic identification

2000 – 2001 MONTEREY COUNTY SHERIFF’S OFFICE, Salinas, California
Fingerprint Technician

- Performed latent print and fingerprint examination and comparison
- AFIS searches
- Henry fingerprint classification and filing

Lauren Zephro, Ph.D.

831.454.2879 (direct)

shf156@co.santa-cruz.ca.us

- 1998 – 2000
Property Technician MONTEREY COUNTY SHERIFF'S OFFICE, Salinas, California
- Maintained chain of custody and ensured proper packaging and handling of evidence
 - Fingerprint Technician trainee
- July 1999
Forensic Anthropologist CYPRUS PROJECT, PHYSICIANS FOR HUMAN RIGHTS, Nicosia, Cyprus
- Conducted forensic anthropological analysis on exhumed human remains
 - Interviewed families for antemortem information on missing persons
- 1995 – 1998
Graduate Assistant in Forensic Anthropology UNIVERSITY OF TENNESSEE, ANTHROPOLOGY DEPARTMENT, Knoxville
- Crime scene investigation, recovery, analysis, and identification of skeletal remains
 - Teaching assistant for Human Osteology
- 1996 – 1998
Forensic Autopsy Technician UNIVERSITY OF TENNESSEE MEDICAL CENTER, PATHOLOGY DEPARTMENT, Knoxville
- Autopsy assistant to the Knox County Medical Examiner
- May – June 1995
Intern REGIONAL FORENSIC CENTER, Memphis, Tennessee
- Participated in forensic casework, bone processing, and burned bone research for collaboration with “*Bones: Bullets, Burns, Bludgeons, and Blunders, and Why*” Workshop presented to the 1996 annual meeting of the American Academy of Forensic Sciences
- 1994 – 1995
Volunteer UNIVERSITY OF TENNESSEE, ANTHROPOLOGY DEPARTMENT, Knoxville
- Inventoried the William M. Bass donated skeletal collection
- 1992 – 1993
Physical Anthropology Laboratory Technician UNIVERSITY OF CALIFORNIA, ANTHROPOLOGY DEPARTMENT, Santa Cruz
- Curated the primate and human osteological collections
 - Processed skeletal material and maintained a colony of dermestid beetles

OTHER PROFESSIONAL EMPLOYMENT

- Consultant, Latent Print Examiner* COGENT SYSTEMS, Pasadena, California
AFIS Benchmark, April 18 to 20, 2010

TEACHING EXPERIENCE

Academic Appointments

- Adjunct Instructor, Criminal Justice and Anthropology*, Cabrillo College, Aptos 9/2007 – 6/2008
Lecturer in Anthropology, University of California, Santa Cruz 9/2005 – 9/2006
Teaching Assistant, Department of Anthropology, University of California, Santa Cruz
Teaching Assistant, Department of Anthropology, University of Tennessee, Knoxville

Courses taught (year)

- Forensic Investigation*, Cabrillo College, Aptos (Fall Semester 2007, Spring Semester 2008)
Forensic Anthropology, Cabrillo College, Aptos (Fall Semester 2007)
Human Skeletal Biology, University of California, Santa Cruz (Summer Session 2006, Ind. Study 2007)
Forensic Anthropology, University of California, Santa Cruz (Fall Quarter 2005)

Specialized law enforcement training taught (year)

- Latent Print Processing for First Responders*, Santa Cruz Sheriff's Office, POST 4-hour class (2009)
Latent Print Processing for First Responders, Santa Cruz Police Department, POST 4-hour class (2009)
Latent Prints, California State Parks Academy, 4-hour class (2008)
Latent Print Processing for First Responders, Scotts Valley Police Department, POST 4-hour class (2008)
Latent Print Processing for First Responders, Capitola Police Department, POST 4-hour class (2008)
Crime Scene Investigation and Officer Involved Shootings, California State Parks, 3-hour class (2008)
Crime Scene Investigation and Officer Involved Shootings, California State Parks, 2-hour class (2007)
First Responders, Monterey County Sheriff's Office, POST 8-hour class (2002)

Lauren Zephro, Ph.D.

831.454.2879 (direct)

shf156@co.santa-cruz.ca.us

- Forensic Anthropology*, Department of Justice Advanced Training Center, POST 4-hour class (2000)
- Served as teaching assistant (year)
- Introduction to Human Evolution*, University of California, Santa Cruz (1993, 1999, 2006)
 - Introduction to Archeology*, University of California, Santa Cruz (1994, 2000)
 - Human Osteology*, University of Tennessee, Knoxville (1995, 1996, 1997)
 - Research and the Logic of Inquiry*, University of California, Santa Cruz (1994)
- Selected lectures (year)
- Forensic Science Careers*, Watsonville HS (2011), Scotts Valley HS (2011, 2011), Santa Cruz High (2012)
 - Latent Print Evidence*, Santa Cruz County Court Interpreters (2010)
 - Latent Print Evidence*, Santa Cruz Office of the Public Defender (2009)
 - Latent Print Evidence*, Santa Cruz County Office of the District Attorney (2009)
 - Forensic Anthropology*, Soquel High School (2008, 2012), Pajaro Valley High School (2009)
 - Forensic Anthropology*, Cabrillo College (1999, 2004, 2005, 2006, 2010, 2011)
 - Crime Scene Recovery of Human Remains*, Crime Scene Investigators of the Central Coast (2000, 2004)
 - Recovery and Analysis of Tire Track Evidence*, Crime Scene Investigators of the Central Coast (2003)
 - Trace Evidence: Recognition and Forensic Significance*, University of California, Santa Cruz (2003)
 - Digital Imaging for Law Enforcement*, Crime Scene Investigators of the Central Coast (2002)
 - Rules of Evidence*, University of California, Santa Cruz (2001)
 - Forensic Science*, Santa Cruz High School (2001)

HONORS & AWARDS

- University of California Regents Fellowship (2006 - 2007)
- Monterey County Police Officer's Association Citizen Award (2004)
- Monterey County Sheriff's Office Employee of the Month, December (2003) and January (2001)
- J. Lawrence Angel Award for Best Student Paper, Physical Anthropology Section, AAFS (1998)

GRANTS

- Faculty Grant for Student Success, Cabrillo College (2007)
- Summer Travel Grant, UCSC Anthropology Department (2007)
- Forensic Sciences Foundation Inc. Lucas Grant (1999)
- University of Tennessee Graduate Travel Grant (1998)

PROFESSIONAL MEMBERSHIPS

- Fellow* – American Academy of Forensic Sciences, Physical Anthropology Section
- Active Member* – International Association for Identification
- Active Member* – California State Division IAI
- Member* – Society of Forensic Anthropology

COMMITTEE MEMBER

- SOFA Board of Directors (2005 – 2008, 2011 - current)
- SOFA Unknown to Identified Forensic Anthropological Methods Database Committee
- SWGANTH Ethics Committee
- Cogent Users Group International Technical Committee, Co-Chair, since 2008
- SOFA Ethics Committee – ethics statement accepted and adopted by SOFA February 2009

SPECIALIZED TRAINING

- December 2011 Court Room Testimony Techniques (2 days)
San Francisco, CA, Presented by Ron Smith and Associates
Instructor: Ron Smith
- March 2011 ASCLD/LAB – *International Internal Auditor Training Course* (4 days)
Emeryville, CA
Instructor: Ajna Einsein

Lauren Zephro, Ph.D.

831.454.2879 (direct)

shf156@co.santa-cruz.ca.us

February 2010	From Fingerprint Individualization to Fingerprint Statistics (40 hours) <i>Forensic Science Service, UK</i> <i>Sponsored by the Oregon State Police, Portland, OR</i> Instructors: Cedric Neumann and Glenn Langenburg
February 2009	Analysis of Distortion in Latent Prints (16 hours) <i>Sponsored by the Oregon State Police, Clackamas, OR</i> Instructor: Alice V. Maceo
October 2008	POST Academy Instructor Certificate Course – IDI Level 1 (40 hours) <i>Sponsored by Napa Valley College, in Santa Cruz, CA</i> Instructors: Various
July 2008	Advanced ACE-V Applications for Latent Print Examiners (40 hours) <i>Sponsored by the Oregon State Police, Clackamas, OR</i> Instructor: Glenn Langenburg
February 2008	Fordisc 3.0: Method, Theory and Applications (8 hours) <i>Presented by the University of Tennessee, Knoxville, in Bethesda, MD</i> Instructors: Richard Jantz, Steve Ousley and Colleagues
October 2007	Forensic Ridgeology (40 hours) <i>Sponsored by the Santa Cruz Sheriff's Office and Cabrillo College, Aptos, CA</i> Instructor: David Ashbaugh
July 2004	Shooting Incident Investigation / Reconstruction (40 hours) <i>Sponsored by the Monterey County Sheriff's Office, Salinas, CA</i> Instructor: Ed E. Hueske
January 2004	State and Local Post-Blast Investigation (32 hours) <i>Department of the Treasury, Bureau of Alcohol, Tobacco and Firearms</i> <i>Sponsored by the Davis Police Department, Davis, CA</i> Instructors: Various
October 2002	Tire Track and Tire Impression Evidence Examination (40 hours) <i>California Criminalistics Institute, Sacramento, CA</i> Instructor: William J. Bodziak
October 2002	Blood Stain Pattern Interpretation (40 hours) <i>University of North Texas Police Academy, Denton, TX</i> Instructor: T. Paulette Sutton
June 2002	Law Enforcement Video Association: Forensic Video Analysis and the Law (40 hours) <i>Sponsored by the Los Angeles Sheriff's Department, Whittier, CA</i> Instructors: Grant Fredricks and Colleagues
January 2002	Field Evidence Technician Course (80 hours) <i>Center for Criminal Justice Research and Training, California State University, Long Beach, CA</i> Instructors: Various

Lauren Zephro, Ph.D.

831.454.2879 (direct)

shf156@co.santa-cruz.ca.us

- October 2001 Combined Advanced Ridgeology, Demystifying Palm Prints, and Comparison Techniques (80 hours)
Forensic Identification Training Seminars, Arlington, TX
Instructors: David Ashbaugh, David Grieve, Ron Smith, and Pat Wertheim
- September 1999 Fingerprint Pattern Recognition (24 hours)
California Department of Justice
Sponsored by the Monterey County Sheriff's Office, Salinas, CA
Instructors: Various

PROFESSIONAL CONFERENCES ATTENDED

- American Academy of Forensic Sciences Annual Meeting (1995-1998, 2000-2004, 2007, 2008, 2012)
CAL-ID Managers Meeting, Sponsored by Sacramento Sheriff's Office (2011)
Cogent Users Group International Annual Meeting (2008, 2009, 2010, 2011)
Looking to the Future of Forensic Anthropology, Syracuse University Dialogues in Forensic Science (2010)
California Department of Justice Business Managers Alliance Meeting (Fall 2010, Fall 2011, Spring 2012)
California State Division IAI Annual Training Conference (2002, 2009)
International Association for Identification Annual Training Conference (2007, 2008)
American Association of Physical Anthropology Annual Meeting (1996)

ADDITIONAL TRAINING

- Northern California Fingerprint Study Group, 2011 (2 hours); Adobe Photoshop CS4 Basics, SCSO CSI Unit, 2009 (7 hours); Daubert Challenges to Latent Print Testimony, 2008, IAI meeting (8 hours); Analysis of Distortion in Latent Prints, 2008 IAI meeting (2 hours); Documenting the ACE-V Methodology, 2008 IAI meeting (4 hours); Cogent AFIS System Training (2008); Introduction to GIS, Monterey County Information Technology Center (2003); Department of Justice Presumptive Drug Testing Certification Course (1999, 2001, 2003); Digital Photography (CCAI 2002); PC 832 Firearms, Cabrillo College (2001); 'MORE HITS' 2.1/ Adobe PhotoShop, PC Pros (2000); DNA Evidence, CAL DOJ (2000)

PUBLICATIONS

- Wedel, V, Galloway, A, and **Zephro, L**
in press Broken Bones: Anthropological Analysis of Blunt Force Trauma, 2nd Edition. Springfield: Charles C. Thomas Publisher.
- Zephro, L**
in press Rib fractures in the elderly: a case study using microscopic analysis to determine injury timing. In *Broken Bones: Anthropological Analysis of Blunt Force Trauma, 2nd Edition*. Wedel, V, Zephro, L and Galloway, A, eds. Springfield: Charles C. Thomas Publisher.
- Zephro, L**
2011 Checklist for crime scene recovery of human remains. Society for Forensic Anthropology Newsletter: Summer 2011. www.sofainc.org.
- Hughes, C, Juarez, C, **Zephro, L**, Fowler, G, and Chacon, S
2010 Past or present? Differentiating California prehistoric Native American remains from forensic cases: an empirical approach. *International Journal of Osteoarchaeology*, 22:110-118.
- Galloway, A, and **Zephro, L**
2005 Skeletal trauma analysis of the lower extremity. In *Forensic Medicine of the Lower Extremity: Human Identification and Trauma Analysis of the Thigh, Leg, and Foot*. Rich J, Dean DE, Powers RH eds. New Jersey: Humana Press.
- Rockhold (Zephro), L**, and Herrmann, NP
1999 A case study of a vehicular hit-and-run fatality: direction of force. In *Broken Bones: Anthropological Analysis of Blunt Force Trauma*. Galloway, A ed. Springfield: Charles C. Thomas Publisher.
- Bennett, JL, and **Rockhold (Zephro), L**
1999 Use of an alternate light source for tattoo recognition in the extended postmortem interval. *Journal of Forensic Sciences*, 44(1): 182-184.

PUBLISHED ABSTRACTS

Wescott, D, and **Zephro, L**

2012 Secular change in the femur. *Proceedings of the American Association of Physical Anthropologists*.

Galloway, A, and **Zephro, L**

2005 Internal cranial fractures. *Proceedings of the American Academy of Forensic Sciences*.

Galloway, A, and **Zephro, L**

2004 Skeletal evidence of homicidal compression. *Proceedings of the American Academy of Forensic Sciences*.

Zephro, L

2003 Forensic anthropology for sale: a perspective from law enforcement. *Proceedings of the American Academy of Forensic Sciences*.

Rockhold (Zephro), L, Herrmann, NP, and Bennett, JL

1998 What fracture is this? Recent casework in East Tennessee. *Proceedings of the American Academy of Forensic Sciences*.

Rockhold (Zephro), L, and Bennett, JL

1997 Tattoos in the postmortem interval: sequence of degeneration and recognition. *Proceedings of the American Academy of Forensic Sciences*.

Rockhold (Zephro), L, and Jantz, RL

1996 Secular change in external breadth measures of the femoral midshaft. *Proceedings of the American Association of Physical Anthropologists*.

Rockhold (Zephro), L

1995 Sex determination and estimation of stature and weight from hand and handprint dimensions. *Proceedings of the American Academy of Forensic Sciences*.

UNPUBLISHED WORK

Zephro, L

2012 Determining the Timing and Mechanism of Bone Fracture in Bovine Bone. *Unpublished Doctoral Dissertation*, University of California, Santa Cruz.

Rockhold (Zephro), L

1998 Secular Change in External Femoral Measures from 1840 to 1970: A Biomechanical Interpretation. *Unpublished Masters Thesis*, University of Tennessee, Knoxville.

PROFESSIONAL MEETING PRESENTATIONS, PANELS AND WORKSHOPS

Wescott, D, and **Zephro, L**

2012 Secular change in the femur. *Poster presented to the American Association of Physical Anthropologists*, Portland.

Zephro, L, and Love, J

2007 Crime scene documentation of human remains for forensic anthropological analysis. *Lecture presented to the annual training meeting of the International Association for Identification*, San Diego.

Wedel, V, **Zephro, L**, and Galloway, A

2007 Determination of season of death and age using cementum increment analysis. *Workshop presented to the annual training meeting of the International Association for Identification*, San Diego.

Galloway, A, and **Zephro, L**

2005 Internal cranial fractures. *Paper presented at the annual meeting of the American Academy of Forensic Sciences*, New Orleans.

Galloway, A, and **Zephro, L**

2004 Skeletal evidence of homicidal compression. *Poster presented at the annual meeting of the American Academy of Forensic Sciences*, Dallas.

Zephro, L

2003 Forensic anthropology for sale: a perspective from law enforcement. *Paper presented at the annual meeting of the American Academy of Forensic Sciences*, Chicago.

Zephro, L

2001 *Session Moderator: Aging Methods and Other Assorted Burning Issues. Annual meeting of the American Academy of Forensic Sciences, Seattle.*

Symes, SA, Pope, EJ, Smith, OC, Gardner, CD, and **Zephro, L**

2001 *Burning observations III: analysis of fracture patterns in burned bone. Paper presented at the annual meeting of the American Academy of Forensic Sciences, Seattle.*

Rockhold (Zephro), L, Herrmann, NP, and Bennett, JL

1998 *What fracture is this? Recent casework in East Tennessee. Poster presented at the annual meeting of the American Academy of Forensic Sciences, San Francisco.*

Rockhold (Zephro), L, and Bennett, JL

1997 *Tattoos in the postmortem interval: sequence of degeneration and recognition. Poster presented at the annual meeting of the American Academy of Forensic Sciences, New York.*

Rockhold (Zephro), L, and Jantz, RL

1996 *Secular change in external breadth measures of the femoral midshaft. Poster presented at the annual meeting of the American Association of Physical Anthropologists, Durham.*

Simmons, T, Galloway, A, Haglund, W, **Rockhold (Zephro), L**, and Taylor, K

1996 *Facing the Future of Forensic Anthropology – A Further Appraisal. A participatory discussion presented at the annual meeting of the American Academy of Forensic Sciences, Nashville.*

Symes, SA, Berryman, HE, Smith, OC, Peters, CE, **Rockhold (Zephro), L**, Haun, SA, and Francisco, JT

1996 *Bones: Bullets, Burns, Bludgeons, and Blunders, and Why. Workshop presented to the annual meeting of the American Academy of Forensic Sciences, Nashville.*

Symes, SA, Berryman, HE, Smith, OC, and **Rockhold (Zephro), L**

1995 *Introduction to the biomechanics of burned bone. Workshop presented to the annual meeting of the Mountain, Swamp, and Beach Forensic Anthropologists, Chattanooga.*

Rockhold (Zephro), L

1995 *Sex determination and estimation of stature and weight from hand and handprint dimensions. Poster presented at the annual meeting of the American Academy of Forensic Sciences, Seattle.*

References and testimony experience on request