

## Curriculum Vitae

**Stephen J. Lu, EMBA, SHRM-CP**

Updated January 2026

Web: <https://www.StephenJLu.com>

---

### PROFESSIONAL SUMMARY

Stephen's professional endeavors are founded on a life dedicated to public service.

Throughout his varied careers, Stephen has studied everything from mosquitoes and disease biology to bloodstain patterns, bullet trajectories, and digging up clandestine graves.

Today—through innovative, collaborative communication and technology solutions—he works to foster better leadership in the forensics industry and to support and improve the lives of people diagnosed with amyotrophic lateral sclerosis (ALS).

Stephen's previous employers include the University of Arizona, the National Institutes of Health, the California Department of Justice, the Arizona Department of Public Safety, the National Forensic Science Technology Center, and the San Diego County Sheriff's Department.

Stephen has seventeen years of forensic experience, including Forensic Biology, Crime Scene Investigation and Reconstruction, and Firearms Analysis. He has testified as a qualified expert witness in courts in Arizona and California and in front of the U.S. District Court for the Central District of California. As an active member since 2007, he has served as the Regional Director South and Lead Webmaster for the California Association of Criminalists. In these roles, he increased public visibility by transforming the website and guiding the leadership through the transition to online training during the COVID-19 pandemic.

Before his career in forensics, Stephen worked for six years as a published research scientist. Under Dr. Michael Wells at the University of Arizona, he studied protease regulation in the Yellow Fever mosquito, *Aedes aegypti*. He also completed an internship at the National Institutes of Health/NIDDK, studying neutral lipid trafficking in Niemann-Pick Type C disease under Dr. E. Joan Blanchette-Mackie.

Stephen holds an Executive MBA with Honors from Quantic School of Business and Technology and a Bachelor of Science with Honors, *magna cum laude*, in Biochemistry and Molecular Biophysics and Molecular and Cellular Biology from the University of Arizona, where he was elected to Phi Beta Kappa. He is a Society for Human Resource Management Certified Professional (SHRM-CP).

## **EDUCATION & PROFESSIONAL CREDENTIALS**

**Executive Master of Business Administration** with Honors: Business Administration and Management. Quantic School of Business and Technology, July 2023. Specializations in Entrepreneurship and Strategy; Quantic Entrepreneurs.

**Bachelor of Science** with Honors: Biochemistry and Molecular and Cellular Biology. University of Arizona, May 2005, *magna cum laude*. Undergraduate Biology Research Program, Phi Beta Kappa, Golden Key, Galileo Circle Scholar, Biochemistry Ambassador, DaVinci Award.

**Society for Human Resource Management Certified Professional (SHRM-CP)**  
Issued January 2023

**Federal Bureau of Investigation San Diego Citizens Academy**  
Class of 2023

## **PROFESSIONAL EXPERIENCE**

**San Diego County Sheriff's Department**  
Regional Crime Laboratory  
*Criminalist II (Ret.)*

**01/2012 – 01/2022**

**Duties:** *Forensic Firearms Examiner (10/2015 – 1/2022)*: Performed operability examinations on questioned firearms, assault weapon determinations, and serial number restorations; performed microscopic examination of firearms and firearm accessories, fired bullets, cartridge cases, shotshells and shell components, and other tool marks; examined gunshot residue patterns; performed distance determination and ejection pattern analysis; prepared written technical reports to document analyses and results; provided peer verification of bullet and cartridge case identifications; reviewed reports and case notes for technical and administrative accuracy and clarity. Provided expert testimony in court.

*Crime Scene Investigation: Trajectory Analysis (9/2013 – 1/2022), Bloodstain Pattern Analysis (7/2014 – 1/2022), and Crime Scene Reconstruction (9/2013 – 1/2022)*: Performed crime scene reconstruction. Assisted detectives, officers, and forensic evidence technicians with the identification, collection, and preservation of physical evidence. Prepared written reports to document analyses and results. Provided expert testimony in court.

*Crime Scene Response (2013 – 2019)*: Responded to crime scenes to diagram and document the scene and to evaluate and preserve evidence. Evaluations included trajectory analysis, presumptive blood and semen testing, latent blood enhancement, and bloodstain pattern analysis.

*Forensic Biology (1/2012 – 10/2015)*: Examined items of evidence for biological fluids which may include blood, semen, urine, saliva, and feces. Performed DNA analysis on items of probative value. Prepared written technical reports to document analyses and results. Reviewed reports and case notes for technical and administrative accuracy and clarity. Provided expert testimony in court. Performed and assisted in the validation of new

methods or protocols and instruments. Attended formal training and pursued continuing education.

**National Forensic Science Technology Center**

**8/2009 – 10/2015**

*Contract Assessor*

**Duties:** Performed DNA laboratory audits around the United States as required, working as part of an audit team. Responsibilities included performing analyst interviews, checking the physical condition and set up of laboratories, and performing case reviews. Audits were performed to ensure that laboratory practices met the operating standards under the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories.

**Arizona Department of Public Safety, Tucson**

**5/2008 – 12/2011**

Southern Regional Crime Laboratory

*Criminalist II*

**Duties:** Examined items of evidence for biological fluids which may include blood, semen, urine, saliva, and feces. Performed DNA analysis on items of probative value. Prepared technical written reports to document analyses and results. Reviewed reports and case notes for technical and administrative accuracy and clarity. Provided expert testimony in courts throughout the state. Responded to crime scenes to assist agencies with the identification, collection, and preservation of physical evidence. Performed and assisted in the validation of new methods or protocols. Provided IT support to lab personnel and maintained computer-related equipment in the laboratory. Attended formal training and pursued continuing education.

**Arizona Department of Public Safety, Phoenix**

**4/2007 – 5/2008**

Central Regional Crime Laboratory

*Criminalist I*

**Duties:** Examined items of evidence for biological fluids which may include blood, semen, urine, saliva, and feces. Prepared technical written reports to document analyses and results. Reviewed reports and case notes for technical and administrative accuracy and clarity. Assisted agencies in testing and preserving evidence. Attended formal training and pursued continuing education.

**University of Arizona, Tucson**

**4/2006 – 4/2007**

Dr. Michael A. Wells, Department of Biochemistry and Molecular Biophysics

*Research Specialist*

**Duties:** Conducted research on the regulation of digestive proteases and the metabolic fate of blood meal amino acids in the female mosquito, *Aedes aegypti*; maintained and arranged for equipment repairs and general lab upkeep; and mentored and oversaw the work of an undergraduate student on a relevant lab project.

**California Department of Justice, Attorney General's Office**

**9/2005 – 4/2006**

Jan Bashinski DNA Laboratory, Richmond, CA

*Criminalist*

**Duties:** Documented the collection and entry of convicted felon buccal swab samples for STR analysis and upload into the CALDNA Databank; handled and entered up to 5,000 samples each month; maintained and used BSD 600 equipment and Hamilton robots for DNA sample partition, extraction, and quantitation for in-house analysis; organized

and shipped buccal swab samples for outsourcing; researched a sodium hydroxide DNA extraction protocol and compared it with lab extraction protocols. Trained in DNA Analyst Training for Databank Users.

**National Institute of Diabetes and Digestive and Kidney Diseases      6/2003 – 8/2003**

Dr. E. Joan Blanchette-Mackie, Laboratory of Cell Biology and Biochemistry  
National Institutes of Health  
*Research Internship*

**Duties:** Conducted research on neutral lipid trafficking in Niemann-Pick Type C mutant fibroblasts.

**University of Arizona, Tucson      9/2000 – 9/2005**

Dr. Michael A. Wells, Department of Biochemistry and Molecular Biophysics  
*Research Technician*

**Duties:** Conducted research on the regulation of digestive proteases and the metabolic fate of blood meal amino acids in the female mosquito, *Aedes aegypti*.

**PROFESSIONAL TRAINING RECEIVED**

**2023 FBI San Diego Citizens Academy**

Federal Bureau of Investigation, San Diego Office  
March 7 – April 24, 2023

**California Association of Criminalists General Seminar**

Hosted by the Los Angeles Sheriff's Department Scientific Services Bureau  
Long Beach, CA, April 13 – 15, 2022

**AFTE Virtual Seminar**

Hosted by the Miami-Dade Police Department  
Online Meeting, August 24 – 26, 2021

**Glock Talk Training Course**

Hosted by the California Criminalistics Institute  
Online Meeting, January 11, 2021

**California Association of Criminalists Virtual Study Group – Firearms**

Hosted by the California Association of Criminalists  
Online Meeting, December 8, 2020

**California Association of Criminalists Virtual Study Groups – Firearms, CSI**

Hosted by the San Mateo County Sheriff's Office  
Online Meeting, July 21, 2020

**California Association of Criminalists General Seminar**

Hosted by the San Bernardino County Sheriff's Department  
Ontario, CA, October 23 – 25, 2019

**Gunshot Trajectory and Bloodstain Pattern Analysis with Terrestrial LIDAR Scanning**

Eugene Liscio, ai2-3D Forensics, and Mike Russ, San Bernardino Sheriff's Department  
Ontario, CA, October 21, 2019

**Outdoor Recovery**

University of Tennessee, Knoxville, June 10 – 14, 2019

**Association of Firearms and Tool Mark Examiners 2019 Conference**

Nashville, TN, May 26 – 31, 2019

**California Association of Criminalists General Seminar**

Hosted by the Oakland Police Department  
Oakland, CA, May 15 – 17, 2019

**Association of Firearm and Tool Mark Examiners 2018 Conference**

Charleston, WV, June 2 – 8, 2018

**Machining for the Firearm/Tool Mark Examiner Workshop**

Charleston, WV, June 3, 2018

**Math of Bullet Path Analysis**

Charleston, WV, June 3, 2018

**Tour of the Robert C. Byrd Institute Manufacturing Facility**

Charleston, WV, June 7, 2018

**Forensic Firearms Examination Competencies/Training**

Scott Hoopes, San Diego County Sheriff's Department Crime Lab  
2015 – 2017

**Firearms and Toolmarks Introduction I**

Mike Giusto, California Criminalistics Institute  
Sacramento, CA, November 13 – 17, 2017

**Math and Physics for Bloodstain Pattern Analysis**

Fons Chafe, Brian Yamashita, Tri-Tech Forensics  
San Diego, CA, February 20 – 24, 2017

**SHOTShow**

Las Vegas, NV, January 17 – 20, 2017

**California Crime Gun Intelligence Seminar**

Forensic Technology  
Anaheim, CA, August 23, 2016

**Serial Number Restoration**

Kristin Gerber and Jodi Marsanopoli, BATFE  
Ammandale, MD, August 9 – 11, 2016

**Barrel Manufacturing Workshop**

New Orleans, LA, June 2, 2016

**Sub-Class Characteristics Workshop**

New Orleans, LA, May 29, 2016

**Ring of Fire Workshop (History of Jennings Family Firearms Manufacture)**

New Orleans, LA, May 29, 2016

**Association of Firearm and Tool Mark Examiners 2016 Conference**

New Orleans, LA, May 29 – June 3, 2016

**Smith & Wesson Revolver Armorer's Course**

Mike Giusto, California Criminalistics Institute  
Los Angeles, CA, May 3, 2016

**Glock Armorer's Course**

Glock Professional  
San Diego, CA, December 1, 2015

**Basic Practical Microscopy**

Bill Schneck, California Criminalistics Institute  
Rancho Cordova, CA, October 26 – 30, 2015

**Association of Firearm and Tool Mark Examiners 2015 Conference**

Dallas, TX, May 24 – 29, 2015

**Gunshot and Shotgun Injuries Workshop**

Dallas, TX, May 24, 2015

**California Association of Criminalists General Seminar**

Hosted by the Ventura County Sheriff's Office

Ventura, CA, May 6 – 8, 2015

**California Association of Criminalists Workshop: Forensic Use of High-Speed Photography**

Hosted by the Ventura County Sheriff's Office

Ventura, CA, May 5, 2015

**STRmix Introduction Day**

San Diego Police Department, CA

January 26, 2015

**25<sup>th</sup> International Symposium on Human Identification**

Promega Corporation, Phoenix, AZ

September 29 – October 2, 2014

**Crime Scene Reconstruction**

Joe Rynearson, California Criminalistics Institute

Rancho Cordova, CA, September 8 – 12, 2014

**Crime Scene Investigation and Bloodstain Pattern Analysis Documentation**

Lauren Sautkulis, San Diego County Sheriff's Department Crime Lab

September 2013 – July 2014

**Promega Technology Tour**

Promega Corporation, Hosted by Los Angeles County Sheriff's Department

August 12, 2014

**Identifiler Plus Interpretation and Statistical Analysis**

Michelle Hassler, San Diego County Sheriff's Department Crime Lab

January – August 2014

**California Association of Criminalists DNA Workshop and General Seminar**

Hosted by the San Diego County Sheriff's Department

San Diego, CA, May 6 – 9, 2014

**Advanced Bloodstain Pattern Analysis**

Bevel, Gardner and Associates – Ross Gardner and Iris Dalley

Baton Rouge, LA – Louisiana State Police

April 28 – May 2, 2014

**FARO Laser Scanner**

FARO, San Diego, CA

November 12 – 14, 2013

**24<sup>th</sup> International Symposium on Human Identification**

Promega Corporation, Atlanta, GA

October 7 – 10, 2013

**Advanced Topics in Forensic Mixture Analysis: Statistics to Technology**

Presented by Kevin McElfresh, Lucy Davis, Marty Tracey, and Bruce McCord

Atlanta, GA, October 7, 2013

**2013 International Association of Bloodstain Pattern Analysts Training Conference**

San Diego, CA, October 1 – 4, 2013

**Crime Scene Investigation: Crime Scene Reconstruction**

Lauren Sautkulis, San Diego County Sheriff's Department Crime Lab

December 2012 – September 2013

**Crime Scene Investigation: Firearms Criminalist Training**

Erin Mulligan, San Diego County Sheriff's Department Crime Lab  
December 2012 – September 2013

**Basic Crime Scene Investigation**

Joe Rynearson, NCIT/Sacramento County Sheriff's Department  
Sacramento, CA, August 26 – 31, 2013

**Basic Bloodstain Pattern Analysis**

Jan M. Johnson, Forensic Pieces  
San Diego, CA, July 8 – 12, 2013

**Forensic Shooting Incident Reconstruction Course**

Michael Haag, Forensic Science Consultants  
Glendale, AZ, March 20 – 22, 2013

**Firearms Safety**

Mike Giusto, California Criminalistics Institute  
Lompoc, CA, December 18 – 20, 2012

**California Association of Criminalists DNA Workshop, True Allele and Seminar**

Hosted by the Kern County District Attorney's Crime Lab  
Bakersfield, CA, May 7 – 11, 2012

**Forensic DNA Analysis Competencies/Training**

Michelle Hassler, San Diego County Sheriff's Department Crime Lab  
March – August 2012

**ArmedXpert Software Demo**

Organized by Steve Renteria, Los Angeles Sheriff's Department  
Los Angeles, CA, April 5, 2012

**Biological Screening Competencies/Training**

Michelle Hassler, San Diego County Sheriff's Department  
January – March 2012

**Forensic Explosives Seminar**

Hosted by the Bureau of Alcohol, Tobacco, Firearms, and Explosives Laboratory, San Francisco  
Davis, CA, October 25, 2011

**California Association of Criminalists Workshops and Seminar**

Hosted by the California Criminalistics Institute  
Sacramento, CA, October 24 – 28, 2011

**6<sup>th</sup> Annual Tri-Division Educational Conference**

Arizona Identification Council, Tucson, AZ  
October 4 – 7, 2011

**Applied Biosystems HID Trends Seminar**

Applied Biosystems, Phoenix, AZ  
July 20, 2011

**Mixture Interpretation: Principles, Protocols, and Practice**

Presented by John Butler, Robin Cotton, Catherine Grgicak, and Charlotte Word  
Mesa Police Department, Mesa, AZ, June 6 -7, 2011

**California Association of Criminalists DNA Workshop and Seminar**

Hosted by the Los Angeles County Sheriff's Department  
Long Beach, CA, May 17 – 20, 2011

**Applied Biosystems HID Trends Seminar**

Applied Biosystems, Phoenix, AZ  
August 26, 2010

**AZTWGDAM Meeting**

Tucson Police Department, AZ  
April 20, 2010

**FBI Auditor Training Course**

Federal Bureau of Investigation Online Training  
April 19, 2010

**20<sup>th</sup> International Symposium on Human Identification**

Promega Corporation, Las Vegas, NV  
October 12 – 15, 2009

**Techniques for Challenging Samples**

Promega Corporation, Las Vegas, NV  
October 15, 2009

**Validation of New Techniques and Assays in the Human Identification Laboratory**

Promega Corporation, Las Vegas, NV  
October 12, 2009

**19<sup>th</sup> International Symposium on Human Identification**

Promega Corporation, Hollywood, CA  
October 13 – 16, 2008

**FBI Auditor Training Course**

Richard Guerrieri and Heather Seubert, FBI Laboratory  
19<sup>th</sup> International Symposium on Human Identification, Hollywood, CA  
October 12 – 13, 2008

**Promega PowerPlex 16 Training Course**

Jonelle Thompson, Sorensen Forensics  
Pima County Sheriff's Department, Tucson, AZ  
October 7, 2008

**Firearms Safety Training**

Aaron Brudenell and John Maciulla  
Arizona Department of Public Safety, Tucson, AZ  
September 4, 2008

**California Association of Criminalists DNA Workshop and Seminar**

Hosted by The San Diego Police Department  
San Diego, CA  
May 6, 2008

**President's DNA Initiative: DNA Analyst Training**

Compiled and presented by the National Forensic Science Technology Center  
Arizona Department of Public Safety, Phoenix, AZ  
October 2007 – May 2008

**President's DNA Initiative: Statistics and Population Genetics for Forensic DNA Analysts**

Compiled and presented by the National Forensic Science Technology Center  
Arizona Department of Public Safety, Phoenix, AZ  
February 5 – 8, 2008

**Property and Evidence Inventory/Audit Training**

Todd Whittard and Robert Burris  
Arizona Department of Public Safety, Phoenix, AZ  
September 11, 2007



**Firearms Safety Training**

Jon Tew, Arizona Department of Public Safety, Phoenix, AZ  
August 16, 2007

**Biological Screening & Mock Trial Training**

Compiled and presented by the National Forensic Science Technology Center  
Arizona Department of Public Safety, Phoenix, AZ  
April 2007 – June 2007

**Courtskills: Courtroom Presentation of Evidence**

Presented by Raymond Davis and Ron Davis  
Arizona Department of Public Safety, Phoenix, AZ  
May 15 – 18, 2007

**STR II: Analysis and Typing**

Presented by Cristian Orrego and Jeanette Wallin, California Criminalistics Institute  
California Department of Justice, Richmond, CA  
March 6 – 10, 2006

**STR I: Analysis and Typing**

Presented by Jeanette Wallin and Cristian Orrego, California Criminalistics Institute  
California Department of Justice, Richmond, CA  
February 27 – March 3, 2006

**Statistics for DNA Databank Analysts**

Presented by Dr. George Carmody, California Criminalistics Institute  
California Department of Justice, Richmond, CA  
January 31, 2006

**Genetic Typing Methods in Forensic Science**

Presented by Cecilia von Beroldingen, California Criminalistics Institute  
California Department of Justice, Richmond, CA  
January 10 – 13, 2006

**DNA User's Group Meeting: Establishing Identity Using DNA Profiles**

Presented by California Department of Justice, Richmond, CA  
December 7, 2005

**DNA Extraction and Quantitation, Databank**

Presented by Cristian Orrego, California Criminalistics Institute  
California Department of Justice, Richmond, CA  
November 7 – 10, 2005

**Courtroom Testimony: What to Expect and How to Prepare**

Presented by Raymond Davis  
California Department of Justice, Richmond, CA  
September 21, 2005

**AUDITING AND INVENTORY EXPERIENCE**

<b>San Diego County Sheriff's Department (Various Sections)</b>	2013 – 2022
<b>Virginia State Police, Richmond/Norfolk (NFSTC)</b>	12/05/2011 – 12/08/2011
<b>Miami-Dade Police Department, FL (NFSTC)</b>	11/15/2010 – 11/16/2010
<b>Property and Evidence: DPS Phoenix</b>	10/06/2010 – 10/08/2010

<b>Illinois State Police: Springfield (NFSTC)</b>	05/10/2010 – 05/11/2010
<b>Property and Evidence: DPS Phoenix</b>	11/16/2009 – 11/18/2009
<b>Colorado Bureau of Investigation, Grand Junction (NFSTC)</b>	08/17/2009 – 08/18/2009
<b>Sorenson Forensics Site Visit, Utah</b>	08/30/2009 – 08/31/2009
<b>Tucson Police Department</b>	12/15/2008 – 12/16/2008
<b>Property and Evidence: DPS Flagstaff</b>	10/20/2008 – 10/21/2008
<b>Property and Evidence: DPS Phoenix</b>	11/30/2007 – 12/03/2007
<b>Property and Evidence: DPS Tucson</b>	09/11/2007 – 09/12/2007

#### **PROFESSIONAL AFFILIATIONS**

##### **Phi Beta Kappa**

Member: 2005 – Present

##### **California Association of Criminalists**

Corresponding Member: 2007 – 2012

Full Member: 2012 – 2022

Retired Member: 2022 – Present

##### ***Positions Held:***

Endowment Committee: 2023 – Present

Lead Webmaster: 2018 – 2021

Regional Director South: 2019 – 2020

##### **International Association for Identification**

Member: 2015 – Present

##### **Association of Firearm and Tool Mark Examiners**

Provisional Member: 2015 – 2020

Regular Member: 2020 – Present

##### **Retired Employees of San Diego County**

Member: 2022 – Present

##### **FBI San Diego Citizens Academy Alumni Association**

Alumnus: April 2023 – Present

##### **The Authors Guild**

The American Society of Composers, Authors and Publishers

Public Safety Peer Support Association

American Association of Retired Persons

Hearing Loss Association of America

National Association of the Deaf

The Association of Late-Deafened Adults

Adult Loss of Hearing Association, Southern Arizona

## **HONORS AND AWARDS**

2022 – **Quantic School of Business and Technology** – Powell Impact and Sustainability Scholarship Award  
2022 – **Sheriff (Ret.) William D. Gore** – Letter of Appreciation  
2021 – **California Association of Criminalists** – Perseverance Award  
2008 – **Arizona Department of Public Safety** – Director’s Unit Citation  
2006 – **Attorney General of California** – Team Award Proposition 69  
2005 – **Phi Beta Kappa** – Member Induction  
2005 – **University of Arizona** – Galileo Circle Scholar; DaVinci Award  
2002 – **Golden Key** – Member Induction

## **TEACHING/MENTORING EXPERIENCES**

**NFSTC Mixture Practical: Likelihood Ratio and Population Statistics** – 6/25/2013 – 6/26/2013  
Kentucky State Police

**NFSTC DNA Analyst Training: DNA Amplification Module** – 11/2/2009 – 11/6/2009  
Michigan State Police

**Biochemistry Laboratory Preceptor** – 2004  
University of Arizona, Department of Biochemistry and Molecular Biophysics

**Department of Biochemistry Ambassador** – 2004 – 2007  
University of Arizona, Department of Biochemistry and Molecular Biophysics

## **VOLUNTEERING EXPERIENCES**

**Endowment Committee** – California Association of Criminalists  
2023-Present

**Patient and Family Advisory Council Community Member** – University of California San Diego Health  
2023-2025

**LGBTQ+ Advisory Council Member** – San Diego County Sheriff’s Department  
2022-2024

**Executive Director** – A Lasting Strength, Inc.  
2021-2024

**Regional Director South** – California Association of Criminalists  
2019-2020

**Web Development Team Lead** – California Association of Criminalists  
2018-2021

## **COURTROOM TESTIMONY EXPERIENCE**

**Qualified Subjects:** Forensic DNA Analysis  
Forensic Firearms Analysis  
Crime Scene Investigation and Reconstruction

**Levels of Court:** State (Arizona & California)  
Federal (U.S. District Court for the Central District of California)

**Total Number of Testimonies:** 32

## **LANGUAGES**

**U. S. English** – Native proficiency  
**American Sign Language (ASL)** – Advanced intermediate proficiency  
**French, Mandarin Chinese** – Intermediate proficiency

## **PUBLICATIONS**

Lu, Stephen J., James E. Pennington, April R. Stonehouse, Meta M. Mobula, and Michael A. Wells. "Reevaluation of the Role of Early Trypsin Activity in the Transcriptional Activation of the Late Trypsin Gene in the Mosquito *Aedes Aegypti*." *Insect Biochemistry and Molecular Biology* 36, no. 4 (2006): 336-343. <https://doi.org/10.1016/j.ibmb.2006.01.011>.

Lu, Stephen J. "The Cultural Context of Forensic Laboratories in California." *The CACNews*, Summer 2023, August 29, 2023. <https://www.cacnews.org/news/Summer23.pdf>.

Lu, Stephen J. and Olivia A. Mendoza. "On a Mission to Improve Leadership in Forensics" *Catalyst Magazine* (Tucson, AZ), December 18, 2023. [https://issuu.com/uachembioc/docs/catalyst\\_magazine\\_online\\_fall\\_2023](https://issuu.com/uachembioc/docs/catalyst_magazine_online_fall_2023).

Lu, Stephen J. 2024. *CSI to CEO: What the Dead Can Teach Us About Life and Leadership*. Edited by Eve Porinchak. 1st ed. San Diego: Independent. <https://www.CSItCEO.com>.

## **WEB DESIGN & DEVELOPMENT PROJECTS**

Dec. 2024 – Present

### **Striae: A Firearms Examiner's Comparison Companion**

URL: <https://www.striae.org>

- Designed and developed Striae, an innovative web application tailored for firearms examiners to create detailed annotations for comparison images
- Streamlined labeling, note-taking, and PDF-generation workflows, enhancing review efficiency and transparency for forensic firearms examination
- Built as a cloud-native app leveraging Cloudflare infrastructure for scalability, security, and robust performance
- Utilized modern web technologies including React, Remix, Vite, TypeScript, JavaScript, and CSS to deliver a fast, responsive, and user-friendly experience

Jan. 2019 – Sept. 2021

### **California Association of Criminalists Website**

URL: <https://www.cacnews.org>

- Overhauled the CAC website to modernize technologies, enhance visitor engagement, and improve communication tools
- Implemented a mobile-responsive design using Bootstrap, ensuring accessibility and compatibility across devices
- Developed and maintained frontend architecture with HTML, CSS, and JavaScript
- Enhanced site functions, speed, reliability, and security with Cloudflare backend infrastructure

## **PRESENTATIONS GIVEN**

March 30, 2024

### **Forensic Leaders Training Center®**

Online Lecture

*US Employment Law 101*

Stephen J. Lu, Forensic Leaders Training Center®

April 14, 2022

### **California Association of Criminalists**

2022 General Seminar, Long Beach, CA

*Increasing Cultural Intelligence (CQ) in Forensic Laboratories*

Stephen J. Lu, Forensic Leaders Training Center®

October 3, 2017

### **Regional Crime Scene Investigators Study Seminar, San Diego, CA**

Organized by Cathy Chang, San Diego County Sheriff's Department

*Triple Fentanyl Overdose Case Presentation*

Stephen J. Lu, San Diego County Sheriff's Department

- December 7, 2010      **California Association of Criminalists**  
Southern Study Groups, DNA  
Hertzberg-Davis Forensic Science Center, Los Angeles, CA  
*Of Meth and Men: The Story of a Willcox Murder, Meth, and \$170*  
Stephen J. Lu, Arizona Department of Public Safety Southern Regional Crime Lab
- January 29, 2005      **University of Arizona, Tucson**  
The Undergraduate Biology Research Program  
*Regulation of Midgut Protease Expression and Oogenesis in Aedes aegypti.*  
Stephen J. Lu, Tracey L. Paetow, James E. Pennington, and Michael A. Wells.
- April 16, 2004      **University of California, San Francisco**  
UCSF Alliances for Graduate Education and the Professoriate Colloquium  
*Characterizing the Transcriptional Regulation of Late Trypsin Expression in Aedes aegypti.*  
Stephen J. Lu, James E. Pennington, and Michael A. Wells.
- November 20, 2003      **University of Arizona, Tucson**  
The Undergraduate Biology Research Program  
DATBLITZ Presentation  
*Neutral Lipid Trafficking Differentiates Niemann-Pick C (NPC) 1 from NPC2 Mutant Fibroblasts*  
Stephen J. Lu
- August 7, 2003      **Section of Lipid Cell Biology/LCBB, NIDDK, National Institutes of Health, Bethesda, MD**  
Undergraduate Summer Internship Program  
*Neutral Lipid Trafficking Differentiates Niemann-Pick C (NPC) 1 from NPC2 Mutant Fibroblasts*  
Stephen Lu, Nancy Dwyer, Marcy Comly, and Joan Blanchette-Mackie.
- January 25, 2003      **University of Arizona, Tucson**  
The Undergraduate Biology Research Program  
*Characterizing the Transcriptional Regulation of Late Trypsin Expression in Aedes aegypti.*  
Stephen J. Lu, James E. Pennington, and Michael A. Wells.
- August 2, 2002      **University of Arizona, Tucson**  
The Undergraduate Biology Research Program  
National Science Foundation/Research Experience for Undergraduates  
*Exploration of Peptide Factors that Regulate Late Trypsin Synthesis in Aedes aegypti.*  
Stephen J. Lu, James E. Pennington, and Michael A. Wells.