



Education:

California State University, Fresno, August 2006 - December 2008
M.S., Forensic Science

California State University, Fresno, August 2002 - May 2006
B.A., Chemistry

Accredited courses:

Introduction to Forensic Science

The following course work was completed to address the recommendations of the Scientific Working Group on DNA Analysis Methods (SWGDM) for individuals involved in forensic DNA analysis:
Biochemistry, Molecular Genetics/Cellular Biology, Molecular Biology, and Statistics

Certifications:

Association of Firearm and Tool Mark Examiners, Firearms Examination, 2017, 2022
American Board of Criminalistics, Diplomate Drug Analysis Examination, 2014, 2019

Additional Qualifications:

California Department of Public Health, Forensic Alcohol Analyst, May 2009

Relevant Work Experience:

March 2019 – Present

Assistant Laboratory Director
California Department of Justice
Fresno Regional Laboratory
Firearms, Fire Debris, Controlled Substances/Clan Labs, Crime scenes

June 2022 – Present

Lead Advisor and Mentor
KLTW Group
Pro-bono forensic mentoring group

September 2014 – March 2019

Senior Criminalist
California Department of Justice
Fresno Regional Laboratory

CURRICULUM VITAE

Jessica A. Winn

July 2008 – August 2014

*Criminalist
California Department of Justice
Fresno Regional Laboratory*

August 2007 – July 2008

*Student Assistant/Intern
California Department of Justice
Fresno Regional Laboratory*

Training Received:

Managerial/Quality Assurance training:

*Ethics in Forensic Science for Managers & Supervisors, CCI, April 2023
Feedback in the Workplace, OPD, August 2022
Leading Effectively, CALHR, March 2022
Corrective Action Process and Cause Analysis for Forensic Service Providers, ANAB, Dec 2021
Coaching and Career Conversation Training for Supervisors, OPD, November 2021
6 Critical Practices for Leading a Team, OPD, February 2021
5 Choices to Extraordinary Productivity, OPD, August 2020
E-mail Best Practices, OPD, August 2020
Implementing Strengths Based Leadership, CalHR, June 2020, May 2022
Emotional Intelligence, CalHR, June 2020
Difficult People: Handle with Care, OPD, May 2020
Making the Most of Change, OPD, April 2020
Increasing Positivity in the Workplace, OPD, April 2020
Project Management Fundamentals, OPD, April 2020
Risk Based Thinking, ANAB, February 2020
17025:2017 Internal Assessor Training, ANAB, February 2020
7 Habits of Leader Implementation, OPD, January 2020
The 7 Habits of Highly Effective People, OPD, January 2020
Communicating for Results, OPD, November 2019
Overview of ISO/IEC 17025:2017, ANAB, September 2019
Cause Analysis and Corrective Action, ANAB & Qualtrax, August 2019
Basic Supervision for State Supervisors, Part 1, Cal HR, June 2019
Basic Supervision for State Supervisors, Part 2, Cal HR, April 2019
CCI, Cognitive and Human Factors in Forensic Decision Making, Nov. 2018
Preparing for Supervision, Office of Professional Development, Dec. 2017
California Criminalistics Institute, Excelling as a Manager or Supervisor, Oct. 2017
ASCLD/LAB-International Measurement Confidence Training, May 2012
 Measurement Uncertainty in Firearms
ASCLD/LAB-International Measurement Confidence Training, April 2012
 Traceability, Measurement Assurance, Uncertainty Concepts
California Criminalistics Institute, Ethics in Forensic Science, January 2011
Uncertainty of Measurement Workshop, CSU Fresno, June 2009*

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Technical training:

Firearms/Tool Mark:

California Association of Criminalists, Firearms Study Group, Nov 2023
Challenges in Courtroom Firearms Testimony for the FA Examiner, CCI, June 2023
80% Guns: A Current Discussion of what Forensic Firearms..., AFTE, July 2022
Forensic Considerations for Less Lethal Options, CCI, March 2022
NIJ RTI Firearm and Toolmarks Policy and Practice Forum, January 2022
California Association of Criminalists, Firearms Study Group, Dec 2021
California Association of Criminalists, Firearms Study Group, Dec 2020
California Association of Criminalists, Firearms Study Group, May 2020
California Criminalistics Institute, Gunshot Residue & Distance Determination, June 2019
2018 BFS Congress of Criminalists Firearms Discipline, Oct. 2018
California Association of Criminalists, Firearms Study Group, Sept. 2018
2018 Crime Gun Seminar, Fresno P.D., Forensic Technology, Shotspotter, Mar. 2018
California Association of Criminalistics, Northern Study Group – Firearms, April 2017
California Criminalistics Institute, Comparison Criteria Examination, October 2013
IBIS Data Analysis and Correlation Course, Forensic Technology, January 2012
California Criminalistics Institute, Shooting Incident Reconstruction, October 2011
Bureau of Alcohol, Tobacco, Firearms and Explosives National Firearms Examiners Academy, October 2010 – September 2011
California Criminalistics Institute, Fundamental Manufacturing Processes, July-Nov. 2010
California Criminalistics Institute, Firearm Safety, November 2008

Seized Drug:

Forensic Technology Center of Excellence, ASCLD 2016: Firearms, April 2020
Forensic Technology Center of Excellence, ASCLD Train the Director-Marijuana Analysis in a New Frontier, April 2020
Forensic Technology Center of Excellence, Marijuana or Hemp: From Farm Bill to Forensic Analysis, January 2020
California Criminalistics Institute, Fentanyl and its Analogs, November 2017
California Criminalistics Institute, Butane Honey Oil Labs, August 2016
NES Global, Fentanyl for First Responders, July 2016
California Criminalistics Institute, Clandestine Lab Analysis and Synthesis, Feb. 2010
Officer Screening Training, DOJ Fresno Laboratory, September 2009
DOJ Advanced Training Center, Clandestine Laboratory Safety Certification, May 2009
California Criminalistics Institute, Mass Spectra Theory and Interpretation, October 2008
California Criminalistics Institute, Interpretation of Infrared Spectroscopy, Sept. 2008
CAC Drug Study Group, Oakland Police Department, June 2008

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Forensic Alcohol:

Alcohol Correlation Study, DOJ Fresno Laboratory, October 2019

Breath Alcohol Testimony, CCI, June 2020

Hamilton, Microlab 500 Diluter Training, December 2015

Alcohol Correlation Study, DOJ Fresno Laboratory, November 2014

Alcohol Correlation Study, DOJ Fresno Laboratory, November 2011

California Criminalistics Institute, Forensic Alcohol Interpretation, June 2010

Alcohol Correlation Study, California Criminalistics Institute, June 2010

Alcohol Correlation Study, CA DOJ Santa Barbara Laboratory, 2009

Alcohol Correlation Study, DOJ Fresno Laboratory, October 2008

Alcohol Correlation Study, DOJ Central Valley Laboratory, September 2008

Crime Scenes/General Criminalistics:

California Criminalistics Institute, Photoshop for Forensic Examiners, Nov. 2017

Uncertainty of Measurement in Bloodstain Pattern Analysis Webinar, March 2017

California Criminalistics Institute, Forensic Photography, February 2015

California Criminalistics Institute, Crime Scene Reconstruction, July 2013

California Criminalistics Institute, Technical Writing for the Criminalist, March 2012

California Criminalistics Institute, Crime Scene Investigation II, September 2010

California Criminalistics Institute, Microscopy and Sexual Assault Evidence, June 2010

CVAI Advanced Explosives Recognition, May 2010

California Criminalistics Institute, Bloodstain Pattern Interpretation, June 2009

CVAI Advanced Explosives Recognition, May 2009

California Criminalistics Institute, Crime Scene Investigation I, April 2009

California Criminalistics Institute, Fire Debris Analysis II, March 2009

California Criminalistics Institute, Fire Debris Analysis I, February 2009

California Criminalistics Institute, Crime Scene Photography, December 2008

Armorer's Courses attended:

California Criminalistics Institute, Glock Pistols, 4 hours, April 2018

California Criminalistics Institute, Sig Sauer Pistols, 4 hours, April 2018

California Criminalistics Institute, Smith & Wesson Pistols, 8 hours, April 2018

California Criminalistics Institute, Smith & Wesson Revolvers, 8 hours, April 2018

California Criminalistics Institute, Colt 45 Series Pistols, 4 hours, April 2018

California Criminalistics Institute, M1 Garand and M1A1 Rifles, 4 hours, April 2018

California Criminalistics Institute, AR Series Rifles, 4 hours, April 2018

California Criminalistics Institute, Remington 870 Shotguns, 4 hours, April 2018

AFTE Hi-Point Familiarization / Armorer's Course, Albuquerque, NM, June 2013

Machine Gun Conversion Course, ATF-FTB, 8 hours, March 2011

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Conferences attended:

54th Annual AFTE Training Seminar, Anchorage, AK, May 2024
53rd Annual AFTE Training Seminar, Austin, TX, May 2023
52nd Annual AFTE Training Seminar, Atlanta, GA, May 2022
California Association of Criminalists 136th Seminar, April 2022
51st Annual AFTE Training Seminar, Miami, FL, August 2021
California Association of Criminalistics, Spring Training Seminar – May 2017
47th Annual AFTE Training Seminar, New Orleans, LA, May 2016
45th Annual AFTE Training Seminar, Seattle, WA, May 2014
44th Annual AFTE Training Seminar, Albuquerque, NM, June 2013
State Technical Exchange Program, Monterey, CA - July 2012
43rd Annual AFTE Training Seminar, Buffalo, NY, June 2012
California Association of Criminalists, Technical Program and Seminar, April 2010

Institutions visited:

Smith & Wesson, May 2011
Savage Arms, Inc., May 2011
O.F. Mossberg & Sons, May 2011
Colt Manufacturing Company, May 2011
Connecticut Shotgun, May 2011
Drill Masters El Dorado, May 2011
Lyman Products Corporation, May 2011
Tri Town Precision Plastics, May 2011
Charter Arms Corp., May 2011
Yankee Hill Machine, April 2011
Remington Arms, Marlin Firearms Company, Bushmaster and H&R, April 2011
Sturm, Ruger & Company Inc., April 2011
Sig Sauer, April 2011
Kahr Arms, April 2011
Springfield Armory, April 2011
Remington Arms Company, Inc., February 2011

BFS Training Plans completed:

Firearms/Toolmarks: Distance Determination, July 2021
Firearms/Toolmarks: Firearm and Firearm Component Comparisons, July 2012
Firearms/Toolmarks: No-Gun Examination, April 2012
Firearms/Toolmarks: Function Testing, January 2012
Firearms/Toolmarks: Serial Number Restoration, January 2012
Crime Scene Response: Shooting Incident Reconstruction, October 2016
Crime Scene Response: Primary Scene Processing, January 2014
Crime Scene Response: Primary Clan Lab Responder, July 2012
Crime Scene Response: Secondary Crime Scene Responder, December 2010
Controlled Substances: Controlled Substances Analysis, March 2010

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BFS Training Plans completed:

Controlled Substances: Pill/Tablet ID, January 2009
Controlled Substances: Marijuana ID, September 2008
Alcohol Analysis: Blood Alcohol Analysis and Interpretation, Oct 2016

Relevant Teaching Experience:

August 2019 – present Adjunct Faculty Instructor (Part-time)
California State University Fresno
Forensic Science

May 2014 – present Successful PowerPoint Presentations Instructor
California State Department of Justice
Fresno Regional Laboratory

May 2013 – present PEBT Instructor
California State Department of Justice
Fresno Regional Laboratory

July 2009 – March 2020 Adjunct Faculty Instructor (Part-time)
Columbia College – NAS Lemoore, CA
Chemistry, Physical Science

August 2012 – August 2015 Adjunct Faculty Instructor (Part-time)
Fresno City College – Fresno, CA
Forensic Science

August 2006 – August 2008 Teaching Assistant
California State University, Fresno
Chemistry Department

Courses taught:

CSU Fresno – Criminology 113 (Forensic Science)
Columbia College – Physical Science 108 (Physical Science Survey)
Columbia College – Chemistry 110 (Intro Chemistry)
Fresno City College – Criminology 9 (Forensic Science)

Additional Training Given: April 2014, Fresno County Public Defender's Office – General criminalistics, crime scenes, and laboratory services

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Research and Publications:

Research:

July 2008 – Present:

Criminalist/Senior Criminalist

CA Department of Justice, Fresno Regional Crime Lab.

- *Effects of Forensic Blood Alcohol Analysis*
- *Effects of finishing processes on machining marks (firearms/toolmarks related)*
- *Cartridge case and bullet comparisons*

August 2005 – December 2008: *Research Assistant*

California State University, Fresno

- *Elemental identification of lithium in methamphetamine samples*
- *Enhancing fire debris analysis for light weight molecules*
- *Educational applications of fire debris analysis*
- *Effects of Forensic Blood Alcohol Analysis*

Publications:

"The Effect of Vibratory Finishing on Broaching Marks as a Function of Time," Jessica A. Winn, M.S., AFTE Journal, Volume 45, No. 4, Fall 2013, pgs. 350 – 360.

"The Effect of Hematocrit Concentration of Forensic Blood Alcohol Analysis," Jessica A. Savopolos, M.S., Master's Thesis, CSU Fresno, Forensic Science Master's Program, December 2008.

"Date Rape Drugs and Children's Toys," Jessica A. Savopolos, B.A. and Eric C. Person, PhD, Journal of Clandestine Laboratory Investigating Chemists Association, Vol. 18, No.1, January 2008.

"Elemental Identification of Lithium in Clandestine Laboratory Casework by Atomic Emission Spectroscopy," Eric C. Person, PhD, and Jessica A. Savopolos, B.A., Journal of Clandestine Laboratory Investigating Chemists Association, Vol. 16, No. 3, July 2006.

Presentations:

"What about us? Mental Health and the Forensic Scientist." Jessica Winn, M.S., 54th Annual AFTE Training Seminar, Anchorage, AK, May 2024.

"Hog Wild for Distance Determination – A Case Study." Jessica Winn, M.S., 54th Annual AFTE Training Seminar, Anchorage, AK, May 2024.

"There's a Hole in my Barrel: A Case Study," Jessica A. Winn, M.S., 51st Annual AFTE Training Seminar, Miami, FL, August 2021.

"A Curious Case of Firing Pin Aperture Shear," Jessica A. Winn, M.S., California Association of Criminalistics, Spring Training Seminar – May 2017.

CURRICULUM VITAE

Jessica A. Winn

"A Curious Case of Firing Pin Aperture Shear," Jessica A. Winn, M.S., 47th Annual AFTE Training Seminar, New Orleans, LA, May-June 2016.

"The Effect of Vibratory Finishing on Broaching Marks as a Function of Time," Jessica A. Winn, M.S., DOJ STEP 2012 – Firearms Breakout Session, Monterey, CA, July 2012.

"The Effect of Vibratory Finishing on Broaching Marks as a Function of Time," Jessica A. Winn, M.S. 43rd Annual AFTE Training Seminar, Buffalo, NY, June 2012.

"The Effect of Vibratory Finishing on Broaching Marks as a Function of Time," Jessica A. Savopolos, M.S. ATF National Firearms Examiners Academy, Ammendale, MD, September 2011.

"The Effect of Hematocrit Concentration on Forensic Blood Alcohol Analysis," Jessica A. Savopolos, M.S. California Association of Criminalists Conference, Fishcamp, CA, April 2010.

"The Effect of Hematocrit Concentration on Forensic Blood Alcohol Analysis," Jessica A. Savopolos, B.A. Master's Defense, CSU Fresno, Forensic Science Master's Program, October 2008.

"Effects of Hematocrit on Forensic Blood Alcohol Analysis," Jessica A. Savopolos, Central California Research Symposium, April 2008.

"The Invisible Crime: Gamma-hydroxybutyrate (GHB) and Sexual Assaults," Jessica A. Savopolos, California State University, Fresno, Chemistry Department, October 2007.

Membership in Professional Societies:

Technical Advisory Groups:

BFS Controlled Substances and Clan Lab, Facilitator – 2024 - Present

BFS Controlled Substances and Clandestine Laboratory, 2010 – 2014

BFS Uncertainty of Measurement, Firearms, 2012 - 2020

BFS Blood Alcohol, 2009 – 2010

Membership in Professional Organizations:

California Association of Criminalists (CAC), 2020 - present

Association of Firearm and Tool Mark Examiners (AFTE), Distinguished member, 2012 – present

Clandestine Laboratory Investigating Chemists Association (CLIC), 2010 – present

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Jessica A. Winn

Professional Involvement:

CAC Northern Firearm Study Group Co-Chair, 2019 – present
AFTE Membership Secretary, 2019 – present
AFTE Anaheim Training Seminar Committee, 2020 – present
AFTE Training Seminar Steering Committee, 2023 - present
AFTE Training Manual Subcommittee, 2013 – 2021
AFTE Journal Editorial Review Committee, 2017 – present
AFTE New Orleans Conference Committee, 2014 – 2016

Court Testimony:

Clandestine Laboratories – US District Court, Fresno

Controlled substances – Fresno County Superior Court, Fresno County Juvenile Court, Madera County Superior Court, Tulare County Superior Court, Tulare County Municipal Court, Kings County Superior Court

Crime Scene – Mono County Superior Court

Firearms – Fresno County Superior Court, Kings County Superior Court, Tulare County Superior Court (Porterville, Visalia), Madera County Superior Court, Riverside County Superior Court, Santa Barbara County Superior Court, Mono County Superior Court

Forensic alcohol analysis – Inyo County Superior Court, Stockton DMV, Madera Superior Court, Mariposa County Superior Court, Inyo County Superior Court, Mono County Superior Court

Forensic alcohol interpretation – Tulare County Superior Court, Kings County Superior Court, Fresno County Superior Court, US District Court – Yosemite, Mariposa County Superior Court, Inyo County Superior Court, Mono County Superior Court