



# *Kauderer & Associates, Inc.*

Traffic Accident Reconstruction Experts

## CURRICULUM VITAE OF JAHNA BEARD (JAHNA RINALDI), ACTAR

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### PROFESSIONAL CREDENTIALS

- B.S. Sociology, Criminology Option, California State University of Northridge
- Pierce Community College, Studies in Accounting
- Full Accreditation as a Traffic Accident Reconstructionist (ACTAR #2965)
- State of California, Department of Justice, Peace Officers Standards of Training (POST) Basic, Intermediate and Advanced Certificates
- Bosch® Crash Data Retrieval (CDR) Analyst Certification, and Technician Certification
- Vice Chair, California Association of Accident Reconstruction Specialists (CA<sup>2</sup>RS) Board of Directors

### EMPLOYMENT HISTORY

- Northwestern University Center for Public Safety (2020 – Present)  
Adjunct Lecturer –  
Traffic Crash Investigation 1  
Traffic Crash Investigation 2
- Kauderer & Associates, Inc. (2020-Present)  
Traffic Accident Reconstruction Consultant
- Rio Hondo Community College (2013-Present)  
RADAR – Instructor  
LIDAR – Instructor  
Traffic Collision Investigation (P.O.S.T. Learning Domain 29) - Instructor
- Los Angeles Police Department (1993-2020)  
Multi-Disciplinary Collision Investigation Team (M.C.I.T.)  
Valley Traffic Division and West Traffic Division – Traffic Collision Investigator  
and Field Training Officer  
Basic Collision Investigation School – Instructor  
Intermediate Collision Investigation School – Instructor  
Enhanced Collision Investigation – Instructor  
West Valley Area and Wilshire Area Patrol

## EDUCATIONAL BACKGROUND AND SPECIALIZED TRAINING

- "Illuminating the Truth: A Systematic Approach to Nighttime Crash Scene Investigation", with Dr. Jeffrey Muttart, 2 Hours, Virtual Training (2024)
- Fall Conference 2023 Pedestrian Collision Reconstruction, CA<sup>2</sup>RS, 18 hours, South Lake Tahoe, CA (2023)
- Hyundai-Kia & Tesla EDR Tool Training, Get EDR Data, 5 hours, Virtual Training (2023)
- World Reconstruction Exposition, Crash Test Team Member, 40 hours, Orlando, FL (2023)
- Traffic Crash Reconstruction Refresher, Northwestern University Center for Public Safety, 32 hours, Orlando, FL (2023)
- CA<sup>2</sup>RS 1st Quarter Training: What is PRT and how to Apply it to Rear-end Crashes, CA<sup>2</sup>RS, 8 hours, Irvine, CA (2023)
- CA<sup>2</sup>RS Fall Conference 2022 From scanners to Smartphones, and Everything in between, How to Document your Crash Scene and Prepare for Court, CA<sup>2</sup>RS, 18 hours, Irvine, CA (2022)
- CA<sup>2</sup>RS Webinar - Title: ABS and Non-ABS Deceleration Rates on Different Surfaces, 2 hours (2022)
- CA<sup>2</sup>RS Webinar - Title: Understanding and Using Ignition Cycles in your Investigations, 2 hours (2022)
- Crash Data Analysis and Applications Course, Northwestern University Center for Public Safety, 40 hours, Baton Rouge, LA (2022)
- Crash Data Retrieval System Operators Course, Northwestern University Center for Public Safety, 16 hours, Baton Rouge, LA (2022)
- CA<sup>2</sup>RS Webinar - Title: Case Studies and Research on Pedal Misapplication, CA<sup>2</sup>RS Virtual Training, 2 hours (2022)
- CA<sup>2</sup>RS Fall Conference 2021 Day: 1 Accident Investigation Review & Industry Update / Day 2: Accident Reconstruction Review & Industry Update / Day 3: Accident Reconstruction Case Studies, CA<sup>2</sup>RS, 18 hours, South Lake Tahoe, CA (2021)
- CA<sup>2</sup>RS Webinar - Title: Photogrammetry analysis of a single photo: A novel approach to determine vehicle speed, final rest, and ultimately causation., CA<sup>2</sup>RS Virtual Training, 2 hours (2021)
- CA<sup>2</sup>RS Webinar - Drones: New regulations and best way to get licensed., CA<sup>2</sup>RS Virtual Training, 2 hours (2021)
- CA<sup>2</sup>RS Webinar - 3D Scene Visualization and Courtroom Presentation, CA<sup>2</sup>RS Virtual Training, 2 hours (2021)
- CA<sup>2</sup>RS Webinar - An Overview of Collision Reconstruction / Investigation using Crash Data Retrieval Event Data, CA<sup>2</sup>RS Virtual Training, 2 hours (2020)
- CA<sup>2</sup>RS Webinar - How Drivers Respond in Real World Crash & Near Crash Scenarios, CA<sup>2</sup>RS Virtual Training, 2 hours (2020)
- NAPARS 2020 Joint Conference – Motorcycles, Rollovers, Analyzing GoPro GPS Data, PRT for Various Crash Types, Chip-level Data Recovery, Tires & Freightliner CascadiaECM Data, 14 hours, Virtual Training (2020)

**EDUCATIONAL BACKGROUND AND SPECIALIZED TRAINING CONTINUED**

- CA<sup>2</sup>RS 1<sup>st</sup> Quarter Training – *Photography and Video for Reconstructionists and Investigators*, 8 hours, CA<sup>2</sup>RS, Glendora, CA (2020)
- CDAA Training – *Cross-Examination of Strickland and Other Experts*, LACDAA, 3 hours, Los Angeles, CA (2019)
- CA<sup>2</sup>RS Fall Conference, 2019 Electric Scooters, Pedestrians and Bicycles, 18 hours, CA<sup>2</sup>RS, Palm Desert, CA (2019)
- CA<sup>2</sup>RS 2<sup>nd</sup> Quarter Training *Utilizing Video Evidence in Traffic Investigations*, 8 hours, CA<sup>2</sup>RS, Fontana, CA (2019)
- CA<sup>2</sup>RS 1<sup>st</sup> Quarter Training, *The Math and Physics Behind the Equations Used in Accident Reconstruction. Where Do They Come From, Their Verification Using Computer Simulations*, 8 hours, CA<sup>2</sup>RS, Glendora, CA (2019)
- Event Data Recorder Use in Traffic Crash Reconstruction – Level 1, Institute of Police Technology and Management, 40 hours, Irvine, CA (2018)
- CA<sup>2</sup>RS Fall Conference 2018 EDR Update, Heavy for Passenger and Heavy Vehicles, Human Factors Perception and Reaction Time, CA<sup>2</sup>RS, 20 hours, South Lake Tahoe, CA (2018)
- CA<sup>2</sup>RS 3<sup>rd</sup> Quarter Training Evaluating Injury Causation in Motor Vehicle Accidents: Applied Biomechanics and Clinical Science, CA<sup>2</sup>RS, 8 hours, Fontana, CA (2018)
- Crash Investigation Using Aerial Photogrammetry, Aerial Metrics, 32 hours, Anaheim, CA (2018)
- FAA Part 107 Preparation, Aerial Metrics, 8 hours, Orange, CA (2018)
- CA<sup>2</sup>RS 2<sup>nd</sup> Quarter Training Introduction in Pedestrian/Bicycle vs. Auto Collisions, Orange, CA (2018)
- OCTIA Presentation – Occupant Injuries in Traffic Collision Investigations, 2 hours, Irvine, CA (2018)
- CA<sup>2</sup>RS 1<sup>st</sup> Quarter Training Approach and Implementation of a sUAS (Drone) Program for Accident Investigation, CA<sup>2</sup>RS, 8 hours, Glendora, CA (2018)
- CA<sup>2</sup>RS Fall Conference 2017 Rollovers, CSY and Motorcycle Reconstruction, CA<sup>2</sup>RS, 20 hours, Anaheim, CA (2017)
- Using Microsoft Excel for Traffic Crash Reconstruction, Andy Rich & Michelle Rich, 24 hours, Anaheim, CA (2017)
- Accident Reconstruction & Injury Biomechanics: *From Black Box to Broken Bones*, CA<sup>2</sup>RS, 8 hours, Santa Ana, CA (2017)
- Measuring & Documenting Crash Damage, OCTIA, 8 hours, Irvine, CA (2017)
- 48<sup>th</sup> Annual Training Conference, CA Homicide Investigators Association, 20 hours, Las Vegas, NV (2017)
- CA<sup>2</sup>RS Fall Conference 2016 Delta-V, CA<sup>2</sup>RS, 20 hours, South Lake Tahoe, CA (2016)
- Vehicular Homicide & Drug-Impaired Driver Prosecution, CDAA, 22 hours, Garden Grove, CA (2016)
- World Reconstruction Exposition, Crash Test Team Member, 40 hours, Orlando, FL (2016)
- Applying Automotive EDR Data to Traffic Crash Reconstruction, SAE International, 20 hours, Cerritos, CA (2015)

**EDUCATIONAL BACKGROUND AND SPECIALIZED TRAINING CONTINUED**

- CA<sup>2</sup>RS Fall Conference 2015 CDR & Pedestrian Reconstruction, CA<sup>2</sup>RS, 20 hours, Anaheim, CA (2015)
- 46<sup>th</sup> Annual Training Conference, CA Homicide Investigators Association, 20 hours, Las Vegas, NV (2015)
- Crash Data Retrieval User's Summit, BOSCH/CDR, 24 hours, Houston, TX (2015)
- CA<sup>2</sup>RS Fall Conference 2014 Reconstruction Methods, CA<sup>2</sup>RS, 20 hours, South Lake Tahoe, CA (2014)
- Traffic Crash Reconstruction – 1, Northwestern University Center for Public Safety, 80 hours, Henderson, NV (2014)
- Human Factors in Traffic Crash Reconstruction, IPTM, 40 hours, Pomona, CA (2014)
- CA<sup>2</sup>RS Fall Conference 2013 Commercial Vehicles, CA<sup>2</sup>RS, 20 hours, Long Beach, CA (2013)
- CA<sup>2</sup>RS Fall Conference 2012, CA<sup>2</sup>RS, 20 hours, South Lake Tahoe, CA (2012)
- Event Data Recorder Use in Traffic Crash Reconstruction, IPTM, 40 hours (2012)
- CA<sup>2</sup>RS Fall Conference 2011, CA<sup>2</sup>RS, 20 hours, Anaheim, CA (2011)
- Vetronix/BOSCH Preferred Crash Data Retrieval System Technician Course, CSI-CSTARS-LASD, 8 hours, Whittier, CA (2011)
- Vehicular Homicide Seminar, CA District Attorneys Association, 40 hours, Sacramento, CA (2011)
- Forensic Mapping, Factual Diagram, Kent E. Boots, 40 hours, Anaheim, CA (2011)
- Crash Data Retrieval User's Summit, BOSCH/CDR, 24 hours, Houston, TX (2011)
- CA<sup>2</sup>RS Fall Conference 2010, CA<sup>2</sup>RS, 20 hours, South Lake Tahoe, CA
- CA<sup>2</sup>RS Fall Conference 2009, CA<sup>2</sup>RS, 20 hours, Anaheim, CA
- Vehicular Homicide Seminar, CA District Attorneys Association, 40 hours, San Diego, CA (2009)
- Human Factors for Traffic Accident Reconstruction, 40 hours, Sacramento, CA (2009)
- CA<sup>2</sup>RS and SOAR Anniversary Reconstruction Conference, CA<sup>2</sup>RS, 20 hours, Sacramento, CA (2008)
- Reconstruction Grab Bag Conference, CA<sup>2</sup>RS, 20 hours, Anaheim, CA (2007)
- Crash Data Retrieval System – Analyst Course, CSI, 32 hours, North Las Vegas, NV (2007)
- Crash Data Retrieval System – Technician Course, WeCARE- CA<sup>2</sup>RS-OCSD, 8 hours, Anaheim, CA (2007)
- Investigating Emergency Vehicle Collisions, CA<sup>2</sup>RS, 24 hours, Temecula, CA (2005)
- Motorcycle Collision Investigation and Reconstruction Course, CA<sup>2</sup>RS, 24 hours, Santa Rosa PD (2004)
- Linear Momentum Review, CA<sup>2</sup>RS-WeCARE, Rudy Degger, 8 hours, Anaheim PD (2004)
- Engineering Dynamics Corporation – HVE Forum, San Francisco, CA (2004)
- Auto-Pedestrian Traffic Accident Investigation Course, WeCARE- CA<sup>2</sup>RS, 40 hours-P.O.S.T., Anaheim PD (2004)
- Engineering Dynamics Corporation – Reconstruction, Engineering Dynamics Corporation, 40 hours, Northridge, CA (2004)

## EDUCATIONAL BACKGROUND AND SPECIALIZED TRAINING CONTINUED

- Bicycle Collision Investigation and Reconstruction Course, CA<sup>2</sup>RS, 24 hours, Anaheim, CA (2003)
- Occupant Kinematics and Injury Mechanisms during Motor Vehicle Collisions, UCR Extension Course, 15 hours (2003)
- Low-Speed Impacts: *Investigation, Reconstruction, and Determination of Injury Mechanisms*, UCR Extension, 40 hours-P.O.S.T. (2003)
- Speed Determination from Crush Analysis, Riverside County Sheriff's Department, 40 hours-P.O.S.T (2002)
- Motorcycle Dynamics – UCR Extension, 15 hours (2002)
- Traffic Collision Reconstruction School, Texas A&M – TEEX, 80 hours (2001)
- Advanced Collision Investigation School, Ventura County Sheriff's Department, 80 hours-P.O.S.T. (1999)
- Los Angeles Police Department Training (Collision Investigation) (1993-1999)  
 Los Angeles Police Department Academy Training, November '93-May '94  
 Basic Collision Investigation School, 40 hours – P.O.S.T., April 1997  
 Intermediate Collision Investigation School, 40 hours – P.O.S.T., July 1998  
 Enhanced Collision Investigation School, 40 hours – P.O.S.T., February 1999

## PROFESSIONAL ASSOCIATION PRESENTER

- Hillsboro Police Department – Multi-agency Collision Reconstruction Team  
 Topics: City liability collisions, officer involved collisions, Nine Cell Matrix, human factors, physical evidence and tire mark identification, case studies, CA (2019)
- CA<sup>2</sup>RS Training Day  
 Topics: Physical evidence identifications; tire mark identification and time distance analysis

## AFFILIATIONS

- Vice Chair on Board of Directors, California Association of Accident Reconstruction Specialists since January of 2011 (CA2RS) (Director at Large 2008-20110) (Member since 2003)
- Member of the National Association of Professional Accident Reconstruction Specialists (NAPARS) (2015)
- Member of the Southwestern Association of Technical Accident Investigators, Inc. (SATAI) (2013)
- Member of the Southern California Traffic Investigators Association (SOCTIA) Formerly – Orange County Traffic Investigators Association (OCTIA)
- California Homicide Investigators Association (CHIA)

## **COURT QUALIFICATIONS**

Qualified in Los Angeles County Criminal Courts and Civil Hearings approximately 30 times as an expert in the fields of traffic collision reconstruction, collision causation, speed, damage analysis and collision factors.

*Not for Purposes of Expert Disclosure*