

***Accident Reconstruction & Biomechanics, Inc.***  
***DBA Crashteam California Coast***

-  
***Forensic Animations***

8391 Beverly Blvd. #493    268 Bush St. #2931    604 Village Ct.  
Los Angeles, CA 90048    San Francisco, CA 94104    Arroyo Grande, CA 93420

Phone: 800-587-4858    Fax: 800-587-2848  
Email: [jwobrock@arbio.org](mailto:jwobrock@arbio.org)    Website: [www.arbio.org](http://www.arbio.org)  
Email: [info@forensic-animations.com](mailto:info@forensic-animations.com)    Website: [www.forensic-animations.com](http://www.forensic-animations.com)  
Email: [jwobrock@crashteam.com](mailto:jwobrock@crashteam.com)    Website: [www.crashteam.com](http://www.crashteam.com)

**CURRICULUM VITAE**

**Jesse L. Wobrock, Ph.D**  
**ACTAR #1594**  
**President/Senior Engineer**

**FORMAL EDUCATION**

UNIVERSITY OF CALIFORNIA, LOS ANGELES  
*Doctor of Philosophy, Biomedical Engineering*  
Emphasis in Biomechanics, Biomaterials and Tissue Engineering  
Minor field: *Injury Epidemiology*

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE  
*Master of Science, Kinesiology – Graduated with Distinction*  
Emphasis in Biomechanics

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE  
*Bachelor of Science, Kinesiology – Cum Laude*  
Double Major in Health Science and Kinesiology

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO  
*Pre-Medicine and Mechanical Engineering*  
Graduate School Major in Professional Development

**CONTINUING PROFESSIONAL EDUCATION**

TEXAS A&M UNIVERSITY - El Paso, Texas  
*Pedestrian and Bicycle Collision Reconstruction*  
Coursework: Analysis and reconstruction of pedestrian and bicycle vs. automobile collisions.

TEXAS A&M UNIVERSITY - Houston, Texas  
*Analysis of “Low Speed” Collisions*  
Coursework: Analysis, accident reconstruction, biomechanics, and injury mechanisms in low speed automobile collisions.

TEXAS A&M UNIVERSITY – Mesquite, Texas  
*Collision Trauma Biomechanics*  
Coursework: Injury mechanisms in automobile collisions.

UNIVERSITY OF CALIFORNIA, RIVERSIDE – Riverside, CA  
*Computer Assisted Traffic Accident Reconstruction using MathCAD*  
Coursework: Accident reconstruction techniques using MathCAD mathematical software.

UNIVERSITY OF CALIFORNIA, RIVERSIDE – Riverside, CA  
*Occupant Kinematics and Injury Mechanisms During Motor Vehicle Collisions*  
Coursework: Automobile collision biomechanics.

SOCIETY OF AUTOMOTIVE ENGINEERS – Davis, CA  
*Motor Vehicle Accident Reconstruction*  
Coursework: Motor vehicle accident reconstruction and cause analysis.

TNO MADYMO North America – Livonia, MI  
*MADYMO 6.1 Introductory Training*  
Coursework: Education and training regarding modeling applications using MADYMO 6.1.

TNO MADYMO North America – Livonia, MI  
*MADYMO 6.0 Introductory Training*  
Coursework: Education and training regarding modeling applications using MADYMO 6.0.

ENGINEERING DYNAMICS CORPORATION – Northridge, CA  
*EDC Simulation*  
Coursework: Application and physics-based education and instruction for computer simulations in accident reconstruction.

ENGINEERING DYNAMICS CORPORATION – Northridge, CA  
*EDC Reconstruction*  
Coursework: Application and physics-based education and instruction for accident reconstruction.

NORTHWESTERN UNIVERSITY TRAFFIC INSTITUTE – Independent Study  
*Traffic Accident Investigation (in progress)*  
Coursework: Instruction regarding investigation and evaluation of traffic accidents.

CALIFORNIA ASSOCIATION OF ACCIDENT RECONSTRUCTION SPECIALISTS  
*Sixth Annual CA<sup>2</sup>RS Training Conference*  
Coursework: Motorcycle investigation and reconstruction.

CALIFORNIA ASSOCIATION OF ACCIDENT RECONSTRUCTION SPECIALISTS  
*2006 Fall Crash Training Conference – Crash Reconstruction, Start to Finish*  
Coursework: Accident Reconstruction Training

AMERICAN BACK SOCIETY & St. MARY'S MEDICAL CENTER  
*Advanced Diagnosis and Treatment for Neck & Back Pain*  
Coursework: Medical topics in neck and back treatment and injuries

## **PROFESSIONAL EXPERIENCE**

- April '09- **Crashteam California Coast**  
*Partner for the counties of Los Angeles, Sonoma, Napa, Marin, Solano, Contra Costa, San Francisco, Alameda, San Mateo, Santa Cruz, Santa Clara, Monterey, San Luis Obispo, Santa Barbara, and Ventura in the State of California.*
- March '08- **Forensic Animations**  
Los Angeles, San Francisco, Fresno, Folsom, Arroyo Grande, CA  
Present *Owner*  
Research, preparation, and design of forensic animations.
- March '05- **Accident Reconstruction & Biomechanics, Inc.**  
Present Los Angeles, San Francisco, Fresno, Folsom, Arroyo Grande, CA  
*President/Senior Engineer*  
Reconstruction and biomechanical analysis of accidents, including but not limited to wrongful death, homicide, criminal matters, slip/trip and falls, falls from heights, human factors issues, industrial accidents, gun shots, aviation accidents, law enforcement, fireworks accidents, high and low speed vehicle collisions, pedestrian collisions, tractor-trailer collisions, motorcycle collisions, bicycle collisions, and helmet/protective equipment issues.
- Sep '06- **California State Polytechnic University**  
Jan '07 San Luis Obispo, CA  
*Baseball Team Biomechanist*  
Biomechanical analysis of baseball players.
- March '04- **Biomechanics Engineering Accident Reconstruction**  
Feb '05 Davis, Sherman Oaks, San Diego, CA  
*Associate Biomechanics and Accident Reconstruction Consultant*  
Reconstruction and biomechanical analysis of accidents, including but not limited to slip-and-falls, industrial, law enforcement, automobiles, trucks, motorcycles, bicycles, and pedestrians.
- Sep '03- **Society of Automotive Engineers**  
Sep '04 Detroit, MI  
*Scientific Publication Reviewer*  
Volunteer reviewer of scientific research publications pertaining to accident reconstruction and forensic biomechanics.
- Jan '03- **Head Protection Research Laboratory**  
April '04 Paramount, CA  
*Biomechanist/Data Analyst*  
Research regarding select biomechanical topics in relation to motorcycle crashes and motorcycle helmets.
- Jan '03- **Roger Clark Associates**  
Feb '04 Paramount, CA  
*Biomechanics and Accident Reconstruction Consultant*  
Reconstruction and biomechanical analysis of accidents, including but not limited to slip-and-falls, industrial, law enforcement, automobiles, trucks, motorcycles, bicycles, and pedestrians

- Jan '03-  
April '03      **University of California, Los Angeles**  
Los Angeles, CA  
*Graduate Student Researcher*  
Researcher in the department of Biomedical Engineering with emphasis on biomechanical topics.
- Jan '00 –  
Dec '02      **Accident Research and Biomechanics**  
Valencia, CA  
*Research Associate*  
Reconstruction and biomechanical analysis of accidents, including but not limited to slip-and-falls, industrial, law enforcement, automobiles, trucks, motorcycles, bicycles, and pedestrians.
- Jan '01-  
Dec '01      **California State University, Northridge**  
Northridge, CA  
*Part-time Faculty – Graduate Teaching Assistant*  
Instructor of biomechanics laboratory, which is an undergraduate upper division course.
- Aug '98-  
Jan '00      **Los Robles Regional Medical Center**  
Thousand Oaks, CA  
*Physical Therapy Specialist*  
Application of therapeutic modalities, assisted and observed patient assessments and evaluations, coached patients through exercise programs, wound care, patient education, and patient ambulation assistance.

### **VENUES TESTIFIED AT TRIAL**

Los Angeles County Superior Court, CA  
Fresno County Superior Court, CA  
Tulare County Superior Court, CA  
San Francisco County Superior Court, CA  
Washoe County Superior Court, NV  
Orange County Superior Court, CA  
Sonoma County Superior Court, CA  
Santa Barbara County Superior Court, CA  
San Luis Obispo County Superior Court, CA  
Stanislaus County Superior Court, CA  
Riverside County Superior Court, CA  
San Bernardino County Superior Court, CA

Qualified as an accident reconstruction and biomechanical engineering expert in civil, criminal, and federal venues

### **PROFESSIONAL CERTIFICATIONS**

Full Accreditation as a Traffic Accident Reconstructionist (ACTAR #1594)

### **PROFESSIONAL ASSOCIATIONS**

American Mensa  
UCLA Alumni Association  
California Association of Accident Reconstruction Specialists (CAARS)

American Society of Mechanical Engineers (ASME)  
National Association of Traffic Accident Reconstructionists and Investigators (NATARI)  
Association for the Advancement of Automotive Medicine (AAAM)  
Society of Automotive Engineers (SAE)  
American Society of Biomechanics (ASB)  
International Society of Biomechanics (ISB)  
The Accident Reconstruction (ARC) Network

### **PROFESSIONAL ACTIVITIES**

27<sup>th</sup> Annual Injuries in Baseball Course  
American Sports Medicine Institute  
Houston, Texas – January 2009

2006 International IRCOBI Conference on the Biomechanics of Impact  
Sponsored by International Research Council on the Biomechanics of Impact  
Madrid, Spain – September 2006

31<sup>st</sup> International Workshop on Human Subjects for Biomechanical Research  
Sponsored by NHTSA  
San Diego, CA – October 2003

47<sup>th</sup> Stapp Car Crash Conference  
Sponsored by the Stapp Organization  
San Diego, CA – October 2003

International Whiplash Trauma Congress  
Sponsored by Spinal Injury Foundation  
Denver, Colorado – October 2003

2003 International IRCOBI Conference on the Biomechanics of Impact  
Sponsored by International Research Council on the Biomechanics of Impact  
Lisbon, Portugal – September 2003

47<sup>th</sup> AAAM Annual Scientific Conference  
Sponsored by the Association for the Advancement of Automotive Medicine  
Lisbon, Portugal – September 2003

Southern California Conference on Biomechanics  
Sponsored by Pepperdine University  
Malibu, CA – March 2003

CSUN Student Research and Creative Works Symposium  
Sponsored by CSUN  
Los Angeles, CA – November 2002

Technologies Shaping the Future  
Sponsored by UCLA  
Los Angeles, CA – October 2002

Southern California Tissue Engineering Symposium  
Sponsored by UCLA Biomedical Engineering Society  
Los Angeles, CA – September 2002

TRB 81<sup>st</sup> Annual Meeting  
Sponsored by Transportation Research Board  
Washington, D.C. – January 2002

American Society of Biomechanics Annual Conference  
Sponsored by American Society of Biomechanics  
San Diego, CA – August 2001

SAE World Congress  
Sponsored by Society of Automotive Engineers  
Detroit, MI – March 2001

Clinical Seminar in Sports Medicine, “New Approaches to Disorders of the Spine”  
Sponsored by California State University, Northridge.  
Northridge, CA - March 2000

Motorsports Safety – Presented by John Melvin, Ph.D.  
Sponsored by the Society of Automotive Engineers  
San Luis Obispo, CA – February 2000

SWACSM Annual Conference  
Sponsored by Southwest American College of Sports Medicine  
San Jose, CA – November 1999

Participant and/or human volunteer in “low speed” rear, lateral, frontal, and underride/override impact crash tests.

Participant in pedestrian dummy and bicycle vs. automobile crash tests.

### **AWARDS**

Young Investigator Award - Association for the Advancement of Automotive Medicine (AAAM) 47<sup>th</sup> Annual Scientific Conference

CSUN Student Research and Creative Works Symposium - 1<sup>st</sup> Place Award for College of Health and Human Development

American Society of Biomechanics - 2002 Student Travel Award

Graduate Student Researcher Award - Winter Quarter 2002, UCLA

### **PUBLICATIONS AND PRESENTATIONS**

A large number of professional and educational (MCLE) presentation to large law firms, insurance companies, national organizations and international organizations.

UCLA Graduate Quarterly, Spring 2005. *Graduate Student Profile - Jesse Wobrock, Biomedical Engineering*. Written by Jacqueline Tasch.

Motorcycle Consumer News, July 2006. *Dangerous Design? Read this and you'll never look at a motorcycle the same way again*. Written by Wendy Moon.

Wobrock, JL, Mal, A, Kraus, J, and Wu, B (2006). Pelvic Injury Potential and Motorcycle Gas Tanks. 2006 International IRCOBI Conference on the Biomechanics of Impact.

Wobrock, JL (2005). MADYMO Simulation, Reconstruction, and Biomechanical Analysis of Motorcycle Crashes. University of California, Los Angeles – Ph.D. Dissertation.

Wobrock, JL (2002). Head Impacts and Injury Potential in Motorcycle Collisions. California State University, Northridge - Master Thesis.

Wobrock, JL, Smith, T, Kasantikul, V, and Whiting, B (2003). Effectiveness of Collision-Involved Motorcycle Helmets in Thailand. 47<sup>th</sup> Annual Conference Proceedings for Association for the Advancement of Automotive Medicine.

Fugger, TF, Wobrock, JL, Randles, BC, Stein, AC, and Whiting, WC (2001). Driver Characteristics at Signal-Controlled Intersections. Society of Automotive Engineers, Paper No. 2001-01-0045

Fugger, TF, Randles, BC, Wobrock, JL, Welcher, JB, Voss, DP, and Eubanks, JJ (2002). Human Occupant Kinematics in Low Speed Side Impacts. Society of Automotive Engineers, Paper No. 2002-01-0020.

Fugger, TF, Randles, BC, Wobrock, JL, and Eubanks, JJ (2002). Pedestrian Throw Kinematics in Forward Projection Collisions. Society of Automotive Engineers, Paper No. 2002-01-0019.

Fugger, TF, Randles, BC, Wobrock, JL, Stein, AC, and Whiting, WC (2001). Pedestrian Behavior at Signal-Controlled Crosswalks. Society of Automotive Engineers, Paper No. 2001-01-0896.

Fugger, TF, Randles, BC, Wobrock, JL, and Eubanks, JJ (2001). An Analysis of Pedestrian Dummy Throw Characteristics for Forward Projection Pedestrian Collisions (published abstract). International Research Council on the Biomechanics of Impact (IRCOBI).

Fugger, TF, Randles, BC, Wobrock, JL, Stein, AC, Whiting, WC, and Gallagher, B (2001). Analysis of Elderly Pedestrian Gait and Perception/Reaction at Signal-Controlled Crosswalk Intersections. Transportation Research Board Annual Conference Proceedings.