

JEREMY J. BAUER, Ph.D., CFPh, CXLT

Forensic Biomechanist
 Accredited Traffic Accident Reconstructionist
 Certified Forensic Photographer
 Forensic Illustrator and Animator
 and
 Certified Remote Pilot for Small Unmanned Aircraft Systems



Bauer Forensics, LLC
 2610 11th Ave. E.
 Seattle, WA 98102
 Office: (503) 912-8660
 Email: jjb@bauerforensics.com
 Web: www.bauerforensics.com

Education

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| B.S., Physical Education (Biomechanics Emphasis), Boise State University | May 1997 |
| M.S., Human Performance (Biomechanics), Minor in Zoology, Oregon State University Thesis: Kinetics and Kinematics of Prepubertal Children Participating in Osteogenic Physical Activity. | June 2000 |
| Ph.D., Human Performance (Biomechanics), Minor in Zoology, Oregon State University Dissertation Title: Defining Intensity of Skeletal Loading in Children. | June 2006 |

Experience

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| Instructor of skiing and snowboarding, Bogus Basin Ski Resort, Boise, ID | 1989-1997 |
| Divisional Clinic Leader (DCL), American Association of Snowboard Instructors Northern Intermountain (AASI-NI) | 1996-1998 |
| Graduate Teaching Assistant, Oregon State University (PAC 220 – In-line Skating, HHP 231 Lab, HHP 231 Website) | 1997-2004 |
| Graduate Research Assistant, Bone Research Laboratory, Oregon State University National Institutes of Health, “Fall Biomechanics and Hip Fracture Risk” National Institutes of Health, “The Effects of Jumping on Growing Bones” International Olympic Committee, Biomechanical Analysis of Long Track Speed Skating Technique with new “Clap” skates | 1998-2004 |
| Photographer’s Assistant, Sinclair Studio, Boise, ID | 1996-1997 |
| Biomechanist, Reconstructionist, Lab Director, Hayes+Associates, Inc., Corvallis, OR | 1999-2017 |
| Owner, Bauer Forensics, LLC, Seattle, WA | 2017-Present |

Professional Affiliations

International Society of Biomechanics (ISB) – Member #3813
 Accreditation Commission for Traffic Accident Reconstruction – Member #2763
 Society of Automotive Engineers (SAE) – Member #6135576500
 American Society for Testing Materials (ASTM) – Member #1871062
 -Committee E30 on Forensic Sciences
 -Committee E58 on Forensic Engineering
 -Committee F13 on Pedestrian/Walkway Safety and Footwear
 -Committee F48 on Exoskeletons and Exosuits (Human Factors and Ergonomics)
 Institute of Transportation Engineers (ITE) – Member #1068868
 Law Enforcement & Emergency Services Video Association International, Inc. (LEVA)
 Washington Association of Technical Accident Investigators (W.A.T.A.I.)
 International Association for Identification (IAI) – Member #35240

Specialized Training

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| Institute of Police Technology and Management (IPTM), Eugene, OR Advanced Traffic Crash Investigation | Nov 2013 |
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| FARO Technologies Laser Scanning Training | Mar 2015 |
| Excel Tribometers CXL T Certification Program (Slip Resistance Training) | Nov 2015 |
| WATAI (Washington Assn. of Technical Accident Investigators) Live Crash Testing | Oct 2018 |
| iINPUT-ACE: Video Evidence Workflow Training | Oct 2018 |
| Institute of Police Technology and Management (IPTM) Bosch® CDR Tool Technician Training | Dec 2018 |
| WATAI (Washington Assn. of Technical Accident Investigators) Fall Conference Occupant Kinematics; Special Uses of Bosch CDR 900 | Oct 2019 |
| Institute of Police Technology and Management (IPTM) Event Data Recording Use in Traffic Crash Reconstruction | Nov 2019 |
| Institute of Police Technology and Management (IPTM) Fundamental Techniques of Crash Investigation (Roadway Evidence; Tire Examination; Safety Belt Examinations; Lamp Examinations; Case Preparation) | Oct 2020 |
| WATAI (Washington Assn. of Technical Accident Investigators) Spring Conference GoPro Use in Collision Reconstruction; Freightliner ECM Data; 3D Forensics; Autonomous Vehicles; EDR Downloads and Updates | May 2021 |
| The Mountaineers – Friction Climbing: Basic | May 2021 |
| International Mountain Guides (IMG) 3.5 Day Mt. Rainier DC Summit Climb Mountain skills instruction: Self-arrest, crampons and team rope/harness skills | Aug 2021 |
| Institute of Transportation Engineers (ITE) Webinar “Pavement Markings - What, Where, Why, When and Liability Concerns” | Oct 2021 |
| WATAI (Washington Assn. of Technical Accident Investigators) Fall Conference Human Factors (Equipment & Tools; Perception Response Time; Nighttime Recognition; Fatigue, Distraction and Impairment; Motorcycle Incidents; Using Photographs/Videos; Object Detection; Stopped or Slow Moving Vehicles on Highway); Lighting (Measuring Light; Headlight Illumination; Retroreflective Materials) | Oct 2021 |
| American Institute for Avalanche Research and Education (AIARE) – AIARE 1 | Jan 2022 |
| iINPUT-ACE: 2022 Video Evidence Symposium How Filters Affect the Interpretation of Video; Maintaining Chain of Custody; Speed and Motion: Interpreting Use of Force from Video Images; The Evolution of Court Acceptance; The Impact of Allowing Officers to View Video Evidence Prior to Providing a Statement; The Role of Video Evidence in the Kyle Rittenhouse Trial. | Mar 2022 |
| WATAI (Washington Assn. of Technical Accident Investigators) Spring Conference Advanced Reconstruction with EDR Applications; Using Excel in Traffic Collision Reconstruction. | May 2022 |
| WATAI (Washington Assn. of Technical Accident Investigators) Fall Conference Traffic Signals 1 & 2; Reconstructing Crashes at Traffic Signals 1 & 2; Multi-Tasking & Sight Distance; Red light cameras; Bicycle Facilities & MUTCD; Traffic Calming & Streetscapes. | Oct 2022 |
| Forensic Photography Symposium Science of lighting and how to quantify light; Forensic Macro photography; Lighting on accident scenes for mapping and documentation; Post-mortem surface documentation; Visualizing blood; Ethical considerations in scientific photography; Forensic post-mortem photography and the modern autopsy; Scientific workflow for forensic image and video enhancement. | Jan 2023 |
| World Reconstruction Exposition (WREX) 2023 Live crash testing (Semi-trucks, school bus, pedestrians, bicycles, scooter, sedans); Dashboard Cameras and Human Vision; Video Analysis in Collision Reconstruction; The use of Mobile Device Lidar in Collision Reconstruction. | April 2023 |

Academic Coursework Completed

EXSS 523 Biomechanics of Motor Activities (EXSS = Exercise and Sport Science)
EXSS 525 Biomechanics of the Skeletal System
EXSS 526 Biomechanical Analysis Techniques
EXSS 533 Advanced Exercise Physiology
EXSS 538 Skeletal Adaptations to Exercise

EXSS 573 Measurement in Human Movement
 EXSS 575 Research in Human Movement
 EXSS 577 Multivariate Analysis in Human Performance
 ME 317 Dynamics (ME = Mechanical Engineering)
 ME 536 Advanced Dynamics
 ME 552 Instrumentation
 ME 537 Vibration Analysis
 MTH 265 Applied Differential Equations (MTH = Math)
 MTH 581 Mathematical Methods for Engineers and Scientists
 MTH 582 Mathematical Methods for Engineers and Scientists
 MTH 583 Mathematical Methods for Engineers and Scientists
 ST 511 Methods of Data Analysis (ST = Statistics)
 ST 521 Mathematical Statistics
 ST 552 Statistical Methods
 CH 519 Computer Animation (CH = Computer Science)
 CH 595 Electronics for Scientists
 CH 596 Computer Interfacing
 STC 527 Advanced Technical Writing
 Z 530 Principles of Physiology (Z = Zoology)
 Z 531 Vertebrate Physiology
 Z 532 Vertebrate Physiology

Certification/Accreditation

Remote Pilot for Small Unmanned Aircraft Systems (sUAS). Federal Aviation Administration (FAA #3970672)
 Certified Forensic Photographer (CFPh). International Association for Identification (IAI #FP10112)
 Accident Reconstructionist. Accreditation Commission for Traffic Accident Reconstruction (ACTAR #2763)
 CXLT Certification, Excel Tribometers (Certificate #1511572)
 FARO Focus 3D Scanner Certification Program
 National Institutes of Health Human Participant Protections Education for Research Teams
 American Association of Snowboard Instructors (AASI) Level III/Examiner/Clinician (Non-Active)
 Professional Ski Instructors of America (PSIA) Level II Certified (Non-Active)
 Technical Diving International (TDI) Nitrox Certification
 Professional Association of Dive Instructors (PADI) Rescue Diver Certification
 Professional Association of Dive Instructors (PADI) Advanced Open Water Certification
 Professional Association of Dive Instructors (PADI) Medic First Aid

Testimony History

Webb v. Manorcare Health Services, Inc., *et al.*, County Court at Law #2, Dallas County (TX), Case No. CC-00-03458-B. July 24, 2002. (Deposition).
 Smith v. Baxano & Zhuge, Superior Court of Washington for Snohomish County (WA), Case No. 13-2-02714-1, September 4, 2014. (Deposition).
 Zaltsman v. New Flyer Industries, Inc. and Southeastern Pennsylvania Transport Authority, Court of Common Pleas, Philadelphia County (PA), Case No. 130704088, November 13, 2015. (Trial).
 Chin v. New Flyer Industries, Inc. and Southeastern Pennsylvania Transport Authority, Court of Common Pleas, Philadelphia County (PA), Case No. 130900933, December 10, 2015. (Trial).
 Schueller v. Cordrey, Superior Court of the State of Delaware, Newcastle County, Case No. N14C-10-201 EMD, February 22, 2017. (Trial).
 Wilson v. Frates, United States District Court for the District of Oregon, Case No. 3:16-cv-01690-BR, April 12, 2018. (Deposition).
 Teichmann v. Bell-Bernard *et al.*, Superior Court of the State of California for the County of Santa Cruz, Case No. CV182291, April 30, 2018. (Deposition).
 Wilson v. Frates, United States District Court for the District of Oregon, Case No. 3:16-cv-01690-BR, August 1, 2018. (Trial).
 Burnside v. Peterson, Seventh Judicial District, Jefferson County, Idaho, Case No. CV-2016-493, January 10, 2019 (Trial)

Checchio v. Reuben *et al.*, Superior Court of the State of California for the County of Santa Barbara, Case No. 18CV02779, July 31, 2019 (Deposition)

Checchio v. Reuben *et al.*, Superior Court of the State of California for the County of Santa Barbara, Case No. 18CV02779, August 13, 2019 (Trial)

Cottrell v. Stepp *et al.*, United States District Court Southern District of West Virginia at Charleston, Civil Action No. 2:18-cv-01281, August 20, 2019. (Deposition).

White *et al.* v. City of Topeka *et al.*, United States District Court for the District of Kansas, Case No. 18-CV-4050-DDC-JPO, October 9, 2019. (Deposition).

Knoernschild *et al.* v. Stevens Pass Mountain Resort, Superior Court of Washington for King County, Case No. 18-2-06519-4 SEA, October 16, 2019. (Deposition).

Kollin *et al.* v. McCombs *et al.*, United States District Court Eastern District of California, Case No. 1:18-cv-00617 LJO JLT, December 9, 2019. (Deposition).

McGowan *et al.* v. Stutesman *et al.*, United States District Court for the District of Oregon, Eugene Division, Case No. 6:17-cv-00424-MC, February 24, 2020. (Trial).

Morgan. v. City of Los Angeles *et al.*, United States District Court Central District of California, Case No. 2:17-CV-06693-VAP-JEMx, March 12, 2020. (Deposition).

Beltran-Serrano v. City of Tacoma, Superior Court for the State of Washington Pierce County, Case No. 15-2-11618-1, April 22, 2020. (Deposition)

Estate of Marco Gomez v. Village of Forest Park et al., United States District Court for the Northern District of Illinois Eastern Division, Case No. 18-CV-910, July 17, 2020. (Deposition)

Jeanette Hotes-Aprato v. ACI Northwest Inc., United States District Court for the Western District of Washington at Spokane, Case No. 2:19-cv-200-RMP, August 5, 2020. (Deposition)

Bygum v. City of Montgomery *et al.*, United States District Court for the Southern District of West Virginia Charleston Division, Civil Action No. 2:19-cv-00456, August 19, 2020. (Deposition).

Terdik v. Ziering, United States District Court, County of Eagle, State of Colorado, Case No. 2018CV30081, October 16, 2020. (Deposition).

Flynn v. Town of Normal, Circuit Court of the Eleventh Judicial Circuit McLean County, Illinois, Case No. 12 L 166, October 22, 2020. (Deposition)

King v. City of Columbus, Ohio et al., United States District Court Southern District of Ohio Eastern Division, Case No. 2:18-cv-1060, January 7, 2021. (Deposition)

Cooper v. City of Columbus, Ohio et al., United States District Court Southern District of Ohio Eastern Division, Case No. 2:19-cv-3105, January 7, 2021. (Deposition).

Kraske & Chung v. UW Medicine, King County Superior Court for the State of Washington, Case No. 20-2-00400-6 SEA, January 14, 2021. (Deposition)

Stevenson & Cokes v. City of Chicago and Ewing, United States District Court for the Northern District of Illinois Eastern Division, Case No. 17 CV 04839, February 3, 2021. (Deposition)

Arrington v. City of Chicago and Ewing, United States District Court for the Northern District of Illinois Eastern Division, Case No. 1:17-cv-05345, February 3, 2021. (Deposition)

Estate of Marco Gomez v. Village of Forest Park et al., United States District Court for the Northern District of Illinois Eastern Division, Case No. 18-CV-910, February 12, 2021. (Deposition)

Merrick et al. v. State of Washington et al., Superior Court for the State of Washington Snohomish County, Case No. 18-2-10085-31, February 25, 2021. (Deposition)

Flynn v. Town of Normal, Circuit Court of the Eleventh Judicial Circuit McLean County, Illinois, Case No. 12 L 166, April 28, 2021. (Deposition)

Dursteler & Dursteler v. Gibbs Farms, LLC and Kelsey, Sixth Judicial District, Caribou County, Idaho, Case#CV-2018-132, June 3, 2021. (Trial).

Chandler & Short v. Rai Express Lines, Ltd., United States District Court for Eastern District of Washington, Case No. 1:20-CV-03016, August 10, 2021. (Deposition)

Hagarman v. Alaska Waterpark Company, Inc. and Prendeville, Superior Court for the State of Alaska, Case No. 3AN-19-1168, October 1, 2021. (Deposition).

MUELLER v. City of Oceanside et al. Superior Court of California, County of San Diego, North County, Case No. 37-2018-00043090-CU-PO-NC, October 6, 2021. (Deposition).

Burback v. American Medical Response and Moss, Superior Court for the State of Washington Cowlitz County, Case No. 16 2 009167, October 20, 2021. (Deposition).

Prassel v. United States of America, United States District Court Northern District of Illinois Eastern Division, Case No. 20 C 2182, November 10, 2021. (Deposition).

Riedesel v. United States of America, United States District Court for the Western District of Washington at Seattle, Case No. 2:21-cv-00033, November 18, 2021. (Deposition)

Herrera v. City of Los Angeles, Superior Court of the State of California for the County of Los Angeles, Case No. BC647423, December 21, 2021. (Deposition).

Romeo v. City of Chicago et al., Circuit Court of Cook County, Illinois County Department – Law Division, Case No. 18 L 012534, January 7, 2022. (Deposition).

Justad et al. v. Morrow Equipment et al., Superior Court of the State of Washington for King County, Consolidated Case Nos. 19-2-33287-7 SEA and 20-2-14782-6 SEA, January 7, 2022. (Deposition).

Shaw v. Thrasher and City of Chicago, Circuit Court of Cook County, Illinois County Department – Law Division, Case No. 2018-L008034, January 28, 2022. (Deposition).

Justad et al. v. Morrow Equipment et al., Superior Court of the State of Washington for King County, Consolidated Case Nos. 19-2-33287-7 SEA and 20-2-14782-6 SEA, February 2, 2022. (Deposition).

Cutting et al. v. Yoke Industrial Corp. et al., United States District Court Western District of Washington at Tacoma, Case No. 3:20-cv-05346-BHS-JRC, February 4, 2022. (Deposition).

Justad et al. v. Morrow Equipment et al., Superior Court of the State of Washington for King County, Consolidated Case Nos. 19-2-33287-7 SEA and 20-2-14782-6 SEA, February 7, 2022. (Trial).

West et al. v. Giese and Village of Mt. Pleasant., United States District Court Eastern District of Wisconsin, Milwaukee Division, Case No. 2:19 CV 1843-PP, February 10, 2022. (Deposition).

Blaylock v. Central Puget Sound Transit Authority et al., Superior Court of the State of Washington in and for the County of King, Case No. 19-2-04009-2 SEA, March 22, 2022. (Deposition).

Riley v. Central Puget Sound Transit Authority, United States District Court for the Western District of Washington, Case No. 2:20-cv-01498-JCC, April 5, 2022. (Deposition).

Estate of Millard McKinley Jimerson, Jr. v. Grieco, Superior Court of the State of Washington in and for the County of King, Case No. 20-2-13431-7 KNT, April 21, 2022. (Perpetual Deposition).

Comer v. Muckleshoot Indian Tribe, Muckleshoot Tribal Court of the Muckleshoot Reservation, Case No. MUC-CIV-01/21-008, May 13, 2022. (Deposition).

Logiudici v. City and County of San Francisco et al., Superior Court of the State of California for the County of San Francisco, Case No. CGC-21-588917, July 7, 2022. (Deposition).

Stevenson and Cokes v. City of Chicago and Ewing, United States District Court for the Northern District of Illinois Eastern Division, Case No. 17 CV 04839; Arrington v. City of Chicago and Ewing, United States District Court for the Northern District of Illinois Eastern Division, Case No. 17 CV 05345, August 25, 2022. (Trial).

Haskins v. Goodwin, District Court, Arapahoe County, State of Colorado, Case No. 2021CV32139, September 13, 2022. (Deposition).

Harris et al. v. Entergy Arkansas, Inc., Circuit Court of Jefferson County, Arkansas Civil Division, Case No. 35cv-18-683, September 19, 2022. (Deposition).

Green v. Kootenai Heart Clinics et al., Superior Court of the State of Washington, County of Spokane, Case No. 19-2-04491-32, September 20, 2022. (Deposition).

Vandivere et al. v. Vertical World and C3 Manufacturing, Superior Court of the State of Washington in and for the County of King, Case No. 19-2-27385-2 SEA, September 29, 2022. (Deposition).

Balfanz v. Friday et al., Circuit Court of Cook County, Illinois County Department – Law Division, Case No. 2019 L 009641, November 10, 2022. (Deposition).

Castillo et al. v. J.T. McKinney Co., Inc. et al., Superior Court of the State of Washington in and for the County of King, Case No. 20-2-07273-7-SEA, December 8, 2022. (Deposition).

Hirmas and Alqasem v. Amazon.com et al., Superior Court for the State of Washington in the County of King, Case No. 21-2-06569-1 SEA, December 12, 2022. (Trial).

Pierce and Baxter v. Santiago-Miranda et al., US District Court for the Middle District of Florida, Case No. 6:2021cv00718, December 16, 2022 (Deposition).

Anderson v. Olson and Olson, Superior Court of the State of Washington in and for Snohomish County, Case No. 22-2-03092-31, December 13, 2023 (Deposition).

King v. City of Columbus, Ohio et al., United States District Court for the District for the Southern District of Ohio Eastern District, Case#2:18-cv-1060, January 18, 2023 (Trial).

Stocker v. University of Washington, Superior Court of the State of Washington in and for the County of King, Case No. 20-2-13171-7 SEA, January 27, 2023 (Deposition).

Shannon v. Hill et al., United States District Court Middle District of North Carolina, Case No. 1:21-cv-00629-WO-JLW, February 3, 2023 (Deposition).

- Gunn et al. v. City of Chicago et al., Circuit Court of Cook County, Illinois County Department, Law Division, Case#2019-L-006416, March 27, 2023 (Trial).
- Kackley v. The City of Seattle, Superior Court of the State of Washington for King County, Case No. 20-2-15189-1 SEA, March 29, 2023 (Deposition).
- Hoksbergen v. Whatcom Transportation Authority et al., Superior Court of the State of Washington in and for the County of Whatcom, Case No. 21-2-00716-37, April 5, 2023 (Deposition).
- Baros v. Mayfield's Hoisting Service, Inc., Superior Court of the State of Washington in and for the County of King, Case No. 22-2-06399-8 SEA, April 26, 2023 (Deposition).
- Kinne v. Sai River Oaks, PLLC et al., District Court 270th Judicial District of Harris County, Texas, CAUSE NO. 2022-38872, May 31, 2023 (Deposition).
- Schwartz v. King County, Superior Court of the State of Washington in and for the County of Pierce, Case No. 17-2-12349-3, June 1, 2023 (Deposition).
- Stocker v. University of Washington, Superior Court of the State of Washington in and for the County of King, Case No. 20-2-13171-7 SEA, May 24, 2023 and May 31, 2023 (Trial).

Academic Services

Peer review for manuscripts submitted to the following journals:

Journal of Biomechanics
Journal of Biomechanical Engineering
Medical Engineering & Physics
Medicine and Science in Sports and Exercise
Measurement Science & Technology
Sports Biomechanics

Honors and Awards

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| Physical Education Department Student of the Year, Boise State University | 1997 |
| Northwest American College of Sports Medicine Conference Highlighted Research | 2000 |
| Oregon State University Graduate Student Conference "Best Oral Presentation" | 2000 |
| Oregon State University Graduate Student Conference "1 st Place Oral Presentation" | 2001 |
| Inductee into the Keith Stein Blue Thunder Marching Band Hall of Fame – Boise State University | 2007 |

Publications

A. Peer-Reviewed Publications

1. Fuchs, R.K., Bauer, J.J., and Snow, C.M.: Jumping improves hip and lumbar spine bone mass in prepubescent children: a randomized controlled trial. *J. Bone Mineral Res.* 16: 148-56, 2001.
2. Bauer, J.J., Fuchs, R.K., Smith, G.A., and Snow C.M.: Quantifying force magnitude and loading rate from drop landings that induce osteogenesis. *J. Appl. Biomech.*, 17: 142-152, 2001.
3. Kosma, M., Gardner, R.E., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: Psychosocial determinants of stages of change and physical activity among adults with physical disabilities. *Adapted P Act Q*, 23 (1): 49-64, 2006.
4. Kosma, M., Ellis Gardner, R., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: The mediating role of intention and stages of change in physical activity among adults with physical disabilities: An integrative framework. *Journal of Sport and Exercise Psychology*, 29:20-37, 2007.
5. Bauer, J.J., Pavol, M.J., Snow, C.M., and Hayes, W.C.: MRI-derived body segment parameters of children differ from age-based estimates derived using photogrammetry. *J. Biomech.*, 40(13): 2904-10, 2007.
6. Ellis, R., Kosma, M., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: Physical activity beliefs and behavior of adults with physical disabilities. *Disability and Rehabilitation. An International Multidisciplinary Journal*, 29:1221-1227, 2007.

7. Kosma, M., Ellis, R., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: Psychosocial predictors of physical activity and health-related quality of life among adults with physical disabilities: An integrative framework. *Disability and Health Journal*, 2:104-109, 2009.
8. Ellis, R., Kosma, M., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: A Comparison of Two Measures of Physical Activity Among Adults with Physical Disabilities: The Issue of Scale Correspondence. *J Dev Phys Disabil*, 2009, DOI 10.1007/s10882-009-9150-z.
9. Kosma, M., Ellis, R., and Bauer, J.J.: Longitudinal Changes in Psychosocial Constructs and Physical Activity Among Adults with Physical Disabilities. *Disability and Health Journal*, 5:1-8, 2012.
10. Erickson, M.S., Bauer, J.J. and Hayes, W.C.: The accuracy of photo-based three-dimensional scanning for collision reconstruction using 123D catch. SAE International, 2013-01-0784, 2013.
11. Power, E., Bauer, J.J., & Hayes, W.C. Reconstruction of a Shooting Incident to Determine Position of Shooter and Timing of Each Shot Fired. *Ann Forensic Res Anal* 5(1):1050, 1-3, 2018.
12. Ellis, R., Kosma, M., Agnew, S. and Bauer, J.J.: Do Temporal Scores of Motivational Constructs Correspond with Physical Activity Levels? *Disability and Health Journal*, 12:51-57, 2019.
13. Power, E.D., Bauer, J.J., & Hayes, W.C. Impact Forces and Injury Potential from Landing on Large Inflatable Airbags. *J Forensic Biomed* 10(1):142, 2-6, 2019.

B. Peer-Reviewed Abstracts

1. Bauer, J.J., Fuchs, R.K., Smith, G.A., Costello, M., and Snow, C.M.: Kinetic and kinematic characteristics of children participating in osteogenic exercise. *Med. Sci. Sports Exerc.* 32:S268. (Presented on poster March 18, 2000, at NWACSM meeting in Boise, ID, and orally June 1, 2000, at National ACSM meeting in Indianapolis, IN).
2. Bauer, J.J., Fuchs, R.K., and Snow, C.M.: Force characteristics from drop landings are not greater in trained children versus untrained children. *Med. Sci. Sports Exerc.* 33:S43. (Presented on poster March 16, 2001, at NWACSM meeting in Salem, OR, and presented orally May 29, 2001, at National ACSM meeting in Baltimore, MD).
3. Bauer, J.J. and Snow, C.M.: Independent analysis of load magnitude and loading rate: Variables in osteogenesis. (Presented on poster August 10, 2001, at the ASB meeting in San Diego, CA).
4. Owings, T.M., Bauer, J.J., Grabiner, M.D., and Snow, C.M.: Knee joint kinematics of healthy youth during a landing task are not influenced by gender. *Med. Sci. Sports Exerc.* 34:S85. (Presented orally on May 29, 2002, at the National ACSM meeting in St. Louis, MO).
5. Bauer, J.J., Snow, C.M., and Hayes, W.C.: How do ground reaction forces from drop landings compare to those from running? *Med. Sci. Sports Exerc.* 34:S85. (Presented orally on May 29, 2002, at the National ACSM meeting in St. Louis, MO).
6. Bauer, J.J., Hayes, W.C., and Snow, C.M.: Force characteristics from drop landings are asymmetrical between legs in 7-11 year old children. [CD-ROM]. IV World Congress Biomechanics Proceedings CD. (Presented orally on August 7, 2002 at the IV World Congress Biomechanics meeting in Calgary, AB, Canada).
7. Bauer, J.J., Maddalozzo, G.F., and Snow, C.M.: Side-side forces and loading rates in a jumping program for increasing bone mass in postmenopausal women. *Med. Sci. Sports Exerc.* 35:S323. (Presented on poster May 31, 2003, at the National ACSM meeting in San Francisco, CA).

8. Bauer, J.J., Miller, K.R., Hayes, W.C., and Snow, C.M.: Loading rates at the ground are unattenuated to the hip during drop landings. *Med. Sci. Sports Exerc.* 36:S229. (Presented orally on June 2, 2004, at the National ACSM meeting in Indianapolis, IN).
9. Lulay, A.T., Bauer, J.J., Snow, C.M., and Pavol, M.J.: Drop Jump Exercise does not increase maximum jump height in children. 28th Annual Meeting of the American Society of Biomechanics. (Presented on poster September 9-10, 2004, at ASB meeting in Portland, OR).
10. Bauer, J.J., Pavol, M.J., Hayes, W.C. & Snow, C.M.: Coronal knee motion in children performing drop landings is not influenced by gender. 28th Annual Meeting of the American Society of Biomechanics. (Presented on poster September 9-10, 2004, at the ASB meeting in Portland, OR).
11. Bauer, J.J., Pavol, M.J., Edwards, D.C., Snow, C.M., and Hayes, W.C.: Pelvic width predicts hip joint center location in children. *Med. Sci. Sports Exerc.* 37:S409. (Presented orally on June 2, 2005, at the National ACSM meeting in Nashville, TN).
12. Ellis Gardner, R., Kosma, M., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A. Physical activity beliefs and behavior of adults with physical disabilities. Poster presentation at the NASPSPA conference, Denver, CO, June, 2006.
13. Ellis Gardner, R., Kosma, M., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: The mediating role of intention in physical activity among adults with physical disabilities. Paper presentation at the North American Society for the Psychology of Sport and Physical Activity (NASPSA) conference, Denver, CO, June, 2006.
14. Kosma, M., Ellis Gardner, R., Cardinal, B.J., Bauer, J.J., and McCubbin, J.A.: The mediating role of the stages of change in physical activity among adults with physical disabilities. Paper presentation at the 26th International Congress of Applied Psychology, Athens, Greece, July, 2006.
15. Kosma, M., Ellis Gardner, R., Cardinal, B.J., Bauer, J.J., & McCubbin, J.A. Health-related quality of life predictors for adults with physical disabilities. Poster presentation at the American Alliance for Health, Physical Education, Recreation and Dance convention, Baltimore, MD, March, 2007.
16. Kosma, M., Ellis, R., & Bauer, J.J. Longitudinal changes in psychosocial constructs and physical activity among adults with physical disabilities. Paper presentation at the International Conference of the Athens Institute for Education and Research (ATINER), Athens, Greece, June, 2011.
17. Ellis, R., Kosma, M., & Bauer, J.J. Changes in physical activity levels and motivational constructs by disability severity and type. *Annals of Behavioral Medicine*, 49 (Supplement 1), S29, 2015.

C. Invited Talks

1. Bauer, J.J. and Snow, C.M. Developing an exercise prescription for bone: Are we closer? 50th annual meeting of the American College of Sports Medicine, San Francisco, CA, May 2003.
2. Bauer, J.J. and Snow, C.M.: What is the prescription for healthy bones? 33rd International Sun Valley Hard Tissue Workshop, Sun Valley, ID, August, 2003.
3. Bauer, J.J. and Snow, C.M.: What is the prescription for healthy bones? *J. Musculoskeletal Neuron Interact*, 3 (4): 352-355, 2003.
4. Bauer, J.J.: Gunshot Wounds in a Digital Human Clear Police in Wrongful Death. Technology Association of Oregon Ignite TAO! v5, Portland, OR, March 2014.
5. Bauer, J.J.: The Forensic Biomechanist. Lecture to Graduate Students in "Law A 504 Torts" class, University of Washington School of Law, Professor William Bailey, Seattle, WA, October 18, 2018.

6. Bauer, J.J.: The Forensic Biomechanist. Lecture to Graduate Students in “Law B 519 Pre-Trial Practice” class, University of Washington School of Law, Professor William Bailey, Seattle, WA, February 21, 2019.
7. Stroth, A. and Bauer, J.J.: Anatomy of a Section 1983 Police Case. Lecture to Law Students in “Anti-Discrimination Law” class, Northwestern University, Professor Cliff Zimmerman, Video Conference Presentation, October 9, 2020.
8. Stroth, A. and Bauer, J.J.: Anatomy of a Section 1983 Police Case. Lecture to Law Students in “Anti-Discrimination Law” class, Northwestern University, Professor Cliff Zimmerman, Video Conference Presentation, February 22, 2022.
9. Stroth, A. and Bauer, J.J.: Anatomy of a Section 1983 Police Case. Lecture to Law Students in “Anti-Discrimination Law” class, Northwestern University, Professor Cliff Zimmerman, Video Conference Presentation, March 1, 2023.

D. Media Contributions

1. Siddique, H. “Mark Duggan Police Shooting: Can Forensic Tech Cast Doubt on Official Report?” The Guardian, June 10, 2020. – ROLE: Performed biomechanical analysis of gun toss and visibility analysis from Officers’ point-of-view. (<https://www.theguardian.com/uk-news/ng-interactive/2020/jun/10/mark-duggan-shooting-can-forensic-tech-cast-doubt-on-official-report>).
2. Ziv, O. “WATCH: Forensic analysis undermines Israeli police narrative of checkpoint killing.” +972 Magazine, February 23, 2021. – ROLE: Consulted regarding vehicle acceleration capabilities. (<https://www.972mag.com/forensic-ahmad-erekat-killing/>) See Also: <https://forensic-architecture.org/investigation/the-extrajudicial-execution-of-ahmad-erekat>
3. ***Awarded Pulitzer Prize on May 9, 2022*** Barker, K., Eder, S., Kirkpatrick, D.D. “How Police Justify Killing Drivers: The Vehicle Was a Weapon.” New York Times, November 6, 2021. – ROLE: Performed shooting incident reconstruction and created demonstratives for published article. (<https://www.nytimes.com/2021/11/06/us/police-traffic-stops-shooting.html>)
4. Flowers, A. “Blood Moon: A Forensic Investigation of a St. Louis Police Killing.” Riverfront Times, January 12, 2022. – ROLE: Consulted regarding shooting incident reconstruction and visibility analysis, lighting and contrast measurement. (<https://www.riverfronttimes.com/news/blood-moon-a-forensic-investigation-of-a-st-louis-police-killing-36940280>)
5. Hassan, Hind and Al Arian, Lama. “Death of a Palestinian Protester: How Did Walid al-Sharif Die?” Vice News, March 18, 2023. – ROLE: Examined video evidence showing a protestor fall to the ground. Evaluated biomechanics of the protestor leading up to his fall to determine his level of consciousness at the time of the fall and the timing of his loss of consciousness. (Article: <https://www.vice.com/en/article/bvj8z3/walid-al-sharif-al-aqsa-death-jerusalem>; Video: <https://youtu.be/pelTbCHYGVs?t=1205>)