

# CHRISTOPHER P. SHERWOOD

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## EXPERIENCE

### Senior Consultant

2013 — present

#### Biomechanics Consulting and Research, LLC

Charlottesville, VA

- Coordinates technical aspects of NFL Engineering Roadmap to prevent concussions.
- Project leader for video reconstructions of concussions causing in football.
- Research and testing of sports equipment including helmets, shoulder pads, thigh pads, and cleats.
- Developed metrics for quantifying the long-term impairment caused by injuries, based on the Functional Capacity Index.

### Senior Research Engineer

2007 — 2013

#### Insurance Institute for Highway Safety

Ruckersville, VA

- Led development of IIHS small overlap crashworthiness test program. Analyzed real world injury biomechanics, performed full scale research tests, developed test protocols and rating guidelines.
- Leader of the IIHS booster seats ratings program. Developed repeatable IIHS test protocol and rating guidelines, published and presented research results.

### Senior Research Scientist

2001 — 2007

#### Center for Applied Biomechanics, University of Virginia

Charlottesville, VA

- Analyzed occupant kinematics and injury mechanics for NHTSA CIREN project.
- Performed analyses of NASS and FARS crash investigation cases.
- Conducted research on child restraints including experimental sled tests and computer modeling.
- Performed injury tolerance testing.

### Research Engineer

1997 — 2001

#### Insurance Institute for Highway Safety

Ruckersville, VA

- Coordinated full scale vehicle crash tests

## EDUCATION

- B.S. Mechanical Engineering, University of Virginia, 1991
- M.S. Biomechanics, Arizona State University, 1995

## SELECTED PUBLICATIONS

McMurry, T, Sherwood, C, Poplin, G, Segui-Gomez, M, Crandall, J. (2015) Implications of functional capacity loss and fatality for vehicle safety prioritization. *In 59<sup>th</sup> Annual Proceedings of the Association for the Advancement of Automotive Medicine.*

Sherwood, C, Mueller, B, Nolan, J, Zubay, A, Lund, A. (2013) Development of a frontal small overlap crashworthiness evaluation test. *Traffic Injury Prevention, 14* (Sup 1): S128-S135.

Schneider, L, Rupp, J, ... Sherwood, C, et al. (2011) BioTab- A new method for analyzing and documenting injury causation in motor-vehicle crashes. *Traffic Injury Prevention, 12*(3): 256-265.

Reed, M, Ebert, S, Sherwood, C, Klinich, K, Manary, M. (2009) Evaluation of the static belt fit provided by belt-positioning booster seats. *Accident Analysis & Prevention, 41*(3): 598-607.

Sherwood, C, Shaw, C, van Rooij, L, Kent, R, Gupta, P, Crandall, J, Orzechowski, K, Eichelberger, M, Kallieris, D. (2003) Prediction of cervical spine injury risk for the 6-year-old child in frontal crashes. *Traffic Injury Prevention, 4*(3): 206-213.