

Boster, Kobayashi & Associates

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JANET H. JHOUN, Ph.D.

Curriculum Vitae

EDUCATION:

Ph.D. Biomedical Engineering, Northwestern University Evanston, 1997

M.S. Biomedical Engineering, Northwestern University Evanston, 1993

B.S. Engineering, University of California, Los Angeles 1989

PRESENT POSITION:

Boster, Kobayashi & Associates, Livermore, CA: 1998 – Present

Associate of Boster, Kobayashi & Associates, a consulting firm specializing in the technical aspects of accident reconstruction and highway design. Typical assignments involve application of the laws of physics and principles of biomedical engineering in accident reconstruction, premises liability and injury causation.

RESEARCH EXPERIENCE:

Northwestern University, 1997-1998, Postdoctoral Fellow

- * Northwestern University Prosthetics Research Laboratory & Rehabilitation Engineering Program.

- * Documented and submitted peer-reviewed research articles in applying engineering science to biomedical research.

Northwestern University, 1993-1997, Doctoral Studies

- * Ph.D. dissertation title: *Studies of Human Standing, Stepping and Gait Initiation.*

- * Investigated human movements concerning balance and locomotion.

- * Assessed and analyzed specific gait patterns using principles of biomechanics, physics and engineering.

- * Conducted human testing.

- * Numerically simulated/reconstructed standing and gait initiation tasks.

- * Interpreted and elucidated data to deduce underlying mechanisms and causal factors.

RESEARCH EXPERIENCE: (continued)

Northwestern University, 1989-1993, Master's Studies

- * Master of Science Thesis: *Pressure Measuring Transducers and Interface Contact Stresses: Limb Prosthetic Socket Applications.*
- * Investigated transducers used in biomedical application of limb prosthetic interface pressures.
- * Conducted mechanical testing that simulated transducer use against human soft tissue.
- * Reconstructed the experimental results via a computational model.
- * Interpreted and specified the mechanical interaction between transducer and semi-solid material under investigation.

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Society of Mechanical Engineers
American Society of Biomechanics
Society of Automotive Engineers
American Society for Testing and Materials

PUBLICATIONS AND ABSTRACTS:

Braun, T.A., et al. (2001). Rear-End Impact Testing with Human Test Subjects. SAE 2001-01-0168 (also presented at SAE 2001 World Congress, 6 March 2001)

Jhoun, J.H., and Childress, D.S. (1997) Pelvic Obliquity during Gait Initiation. Abstracts of the North American Society of Gait and Clinical Movement Analysis 2nd Annual Meeting, April 9-12, 1997, Chicago, *Gait and Posture*, 5(2):181

Chan, R.C., Jhoun, J.H. and Childress, D.S. (1997). A Simple Equation describing Standing Balance. Abstracts of the North American Society of Gait and Clinical Movement Analysis 2nd Annual Meeting, April 9-12, 1997, Chicago, *Gait and Posture*, 5(2):186.

Chan, R.C., Jhoun, J.H. and Childress, D.S. (1997). An Investigation of Tracking Behavior exhibited during Balance and Standing. Abstracts of the 19th Annual International Conference IEEE/EMB Society, Oct. 30 - Nov. 2, 1997, Chicago.

Jhoun, J.H. and Childress, D.S. (1998). Use of Diaphragm Transducers in the Measurement of Pressures on Soft Materials. *Medical & Biological Engineering & Computing*, 36(6):772-776

PUBLICATIONS AND ABSTRACTS: (continued)

Chan, R.C., Childress, D.S. and Jhoun, J.H. (submitted to ASME Winter Annual Meeting in Nov, 1998 at Anaheim, California.). Comparing Standing Characteristics of Prosthesis Users and Normal Subjects using a Tracking Model.

Jhoun, J.H. (1997). *Studies of Human Standing, Stepping and Gait Initiation*. Ph.D. dissertation at Northwestern University.

SPECIALIZED TRAINING AND EXPERIENCE:

42nd Annual Stapp Car Crash Conference – November 1998

Attended technical sessions on Biomechanics & Modeling, Biomechanics of Injury, Crash Testing & Restraint System Performance

Injuries, Anatomy, Biomechanics & Federal Regulation – August 1998

Society of Automotive Engineers Professional Development Seminars
A three-day workshop presenting vehicle safety performance. Topics included injury and anatomy; human tolerance and biomechanics; occupant protection; and testing as well as federal rulemaking.

Vehicle Safety Restraint Systems: Performance, Technologies, and Implementation Strategies
TOPTEC[®] – August 1999

Society of Automotive Engineers Professional Development
A two-day topical, technical workshop (TOPTEC) presenting the latest developments and ongoing research in vehicle safety restraint systems.

Accidental Injury: Biomechanics & Prevention – October 1999

University of California School of Medicine, La Jolla, California
A two-day course presenting a state of the art review of the biomechanics of human injury.

Nikon School of Photography – 2000

The Basics of Crash Injury and Biomechanics – October 2003

Association for the Advancement of Automotive Medicine Specialized Course
A seminar presenting the history of the science of impact biomechanics, terminology, biomechanical parameters and occupant restraints.

50th Annual AAAM Scientific Conference – October 2006

Attended technical sessions on Computer Modeling, Epidemiology, Frontals, Rollovers and Side Impacts, Trauma and Outcome, Aging Child Restraints