

## Jie Zhou, Ph.D.

### Expert Qualifications Summary:

- Biomechanics
- Slips, Trips, Missteps and Falls
- Biomechanics of Injury Investigation
- Biomechanics of Injury Analysis
- Biomechanics of Injury Reconstruction
- Kinematics [a v d t]
- Kinetics [f m a]
- Dynamics
- Neural Control of Human Movement
- Motor Control
- Human Factors & Ergonomics
- Analysis of Human Error Causation
- Human Factors Engineering Design Principles for Workplace Design
- Consultation on Human Performance Capabilities & Limitations
- Anthropometrics
- Biomechanical Models
- Computer Coding - MATLAB
- Research Methodology and Design

### Education:

- 09/2014 – 08/2018: Doctor of Philosophy (Ph.D.) in Biomechanics and Ergonomics  
University of California at Davis, Davis, California, United States  
Supervisor: Dr. Fadi Fathallah  
Dissertation Title: Investigation of the relationship between Magnetic Resonance Imaging parameters and mechanical loading of the intervertebral disc
- 08/2012 – 08/2014: Master of Science (M.Sc.) in Industrial Engineering (Ergonomics)  
West Virginia University, Morgantown, West Virginia, United States  
Supervisor: Dr. Xiaopeng Ning  
Thesis Title: Trunk biomechanical responses during sudden loading

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