

## **Tyler B. Weaver, Ph.D., M.Sc., B.Kin.**

### **Expert Qualifications Summary:**

#### Specialized training in:

- Biomechanical Principles
- Biomechanics of Injury
- Injury Causation, Anatomy and Musculoskeletal Biomechanics
- Human Motion Analysis
- Injury Risk Evaluation
- Human Balance Control – Effects of Age and Pathology
- Slips, Trips, Missteps and Falls
- Premise Liability & Slips/Trips/Falls
- Fall Prevention
- Neural Control of Human Movement
- Motor Control
- Neuromechanics
- Human Factors & Ergonomics
- Human Factors Forensic Analysis
- Analysis of Human Error Causation
- Human Factors Engineering Design Principles for Workplace Design
- Human Performance Capabilities & Limitations
- Anthropometrics
- Instrumentation and Signal Processing for Biophysical Research
- Computer Coding - MATLAB
- Research Methodology and Design

### **Education:**

09/2018 – 06/2019: The Center for Entrepreneurial Leadership – CORE program  
School of Management  
University of Buffalo, Buffalo, NY

01/2013 – 09/2017: Doctor of Philosophy (Ph.D.) in Kinesiology (Biomechanics)  
University of Waterloo, Waterloo, Ontario, Canada  
Supervisor: Dr. Andrew Laing  
Thesis Title: New insights into the landing phase of reactive stepping:  
predictors of control, muscle recruitment, movement restraints and two-step  
responses

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