

Saori Hanaki-Martin, M.S., A.T.C.

Department of Health and Sport Sciences

University of Louisville

Crawford Gym

Louisville, Kentucky 40292

saori.hanakimartin@louisville.edu

Education

Ph.D., Exercise Science (Biomechanics)

- University of Kentucky - Lexington, KY
- Research Area: Biomechanics of Cycling
- Graduate Teaching Certificate Program
- Expected in December, 2010

M.S., Kinesiology and Recreation (Biomechanics)

- Illinois State University - Normal, IL, August, 2005
- Thesis Title: Kinematic Differences between One- and Two-Leg Drop Landings (Advisor: Dr. Steven T. McCaw)

B.S., Health and Human Performance (Athletic Training)

- The University of Montana - Missoula, MT, May, 2000

Research Experience

Research Assistant, 2005 – 2010

- University of Kentucky
- Topics: Biomechanics of Different Landing Techniques, Effects of Osteoarthritis Unloading Brace, Human Gait Analysis, Cycling Biomechanics
- Skills: Extensive knowledge of Motion Analysis kinematic, kinetic, electromyography system, Visual3D (movement analysis) and Matlab (technical mathematical programming), SPSS (statistical analysis) programs

Research Assistant, 2003 – 2004

- Illinois State University
- Topics: Comparison between One- and Two-leg Landing, Difference between High School and College Female during Landing
- Skills: Peak Motus ground reaction force and movement analysis system

Teaching Experience

Lecturer, Present

- University of Louisville
- Courses: Structure and Function of the Movement Sciences (HSS 386); Biomechanics (HSS 387)

Instructor, 2006 – 2010

- University of Kentucky
- Course: Anatomical and Mechanical Kinesiology/Biomechanics of Human Movement (Lecture & Laboratory)

Instructor, 2004 – 2005

- Illinois State University
- Course: Human Anatomy and Physiology (Laboratory)

Clinical Instructor, 2001 – 2004

- Illinois State University
- Supervision of Students in Athletic Training Education Program

Clinical Experience

Certified Athletic Trainer, 2007 - 2009

- Drayer Physical Therapy Institute – Lexington, KY

Certified Athletic Trainer, 2003 - 2005

- Gamma Phi Circus
- Illinois State University – Normal, IL

Certified Athletic Trainer, 2001 – 2004

- Normal Community High School – Normal, IL
- Illinois State University – Normal, IL

Athletic Training Fellow, 2000 - 2001

- New Hampshire Musculoskeletal Institute—Manchester, NH

Other Experience

Reviewer, 2009 - Present

- Journal of Sports Rehabilitation

Session Chair, 2010

- International Society of Biomechanics in Sports Annual Meeting Pre-Conference (Teaching Biomechanics – NASPE), Marquette, MI

Co-Coordinator, 2006

- ACL Research Retreat, Lexington, KY

Presentations

International Society of Biomechanics in Sports Annual Meeting

- Saori Hanaki-Martin, David R. Mullinaeux, Kyoungkyu Jeon, & Robert Shapiro (2010). Forward Seat Position Effects on Cycling Kinematics
- Saori Hanaki-Martin, David R. Mullineaux, & Stacy M. Underwood (2009). Effects of Independent Crank Arms and Slope on Pedaling Mechanics

Kentucky Athletic Trainers' Society Annual Meeting

- Saori Hanaki-Martin (2010). General Cycling Mechanics & Factors Associated with Injury

World Congress of Biomechanics

- David R. Mullineaux, Saori Hanaki-Martin, Kyoungkyu Jeon, Tommy J. Cunningham, Robert Shapiro, Brian W. Noehren, Daisuke Sugimoto (2010). Kinematics to estimate three-dimensional joint kinetics during walking

American College of Sports Medicine Annual Meeting

- Saori Hanaki & Steven McCaw (2005). A Comparison of Lower Extremity Kinematics of One- and Two-Leg Landings

International Society of Biomechanics Congress

- Saori Hanaki & Steven McCaw (2005). Quantification of Energy Absorbed by the Lower Extremity Depends on Endpoint of the Impact Phase

Illinois Association for Health, Physical Education, Recreation and Dance (IAHPERD) - Student-Mentor Award

- Saori Hanaki (2004). A Comparison of Lower Extremity Kinematics Between One- and Two-Leg Drop Landings (Mentor: Dr. Steven T. McCaw)
- Saori Hanaki (2003). Current Concepts in Low Back Exercise (Mentor: Dr. Steven T. McCaw)

Awards and Honors

- Graduate Student Travel Support Award – University of Kentucky, 2009 & 2010
- Jorndt Research Award – Illinois State University, 2005
- Academic Honor & Scholarship – University of Montana, 2000

Affiliations/Qualifications

- National Athletic Trainers' Association (1998-Present)
 - Board of Certification Exam (April, 2000)
- International Society of Biomechanics in Sports (2009 – Present)
- International Society of Biomechanics (2005-2008, Present)
- American Society of Biomechanics (2005-Present)
- American College of Sports Medicine (2005 -2006, 2009 - Present)
- American Red Cross First Aid, CPR & AED (1997-Present)
- Comprehensive experience with Microsoft Office, Visual 3D, Matlab, SPSS, SAS
- EMT – Basic Training
- Bilingual - Japanese and English