

# Curriculum Vitae

**Lee A. Weidauer, Ph.D.**

**Ethel Austin Martin Program in Human Nutrition**

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## **EDUCATIONAL PREPARATION**

South Dakota State University, Brookings, SD

Doctor of Philosophy in Nutrition, Exercise, and Food Science (May 2012)

*Dissertation: The Effect of Participation in Different Types of Physical Activity and Age on Bone Mass, Density, and Geometric Properties*

South Dakota State University, Brookings, SD

Masters of Science in Exercise Science (May 2009)

*Thesis: The Effect of a Commercially Available Caffeine Based Dietary Supplement on 40-Kilometer Time Trial Performance*

South Dakota State University, Brookings, SD

Bachelors of Science in Athletic Training (May 2007)

## **PROFESSIONAL EXPERIENCE**

2015-Present    Research Associate III, Ethel Austin Martin Program in Human Nutrition, South Dakota State University

2012-2015      Post-Doctoral Fellow, Ethel Austin Martin Program in Human Nutrition, South Dakota State University

2011- 2012     Research Coordinator, Ethel Austin Martin Program in Human Nutrition, South Dakota State University

2009-2011     Research Assistant, National Children's Study, Ethel Austin Martin Program in Human Nutrition, South Dakota State University

**PUBLICATIONS**

**Weidauer, L.**, Binkley, T., Beare, T., Minett, M., McCormack, L., Wey, A., Specker, B. (2015) Do Sex Differences Exist in Rates of Falls and Fractures in Hutterite, Rural, and Non-rural Populations, Aged 20 to 66 Years? *Clinical Orthopedics and Related Research*. 473(8): 2514-2520. PMID: 25762018

**Weidauer L**, McCormack L, Gorres-Martens B, Specker B. High Prevalence of Vitamin D Insufficiency in Farming and Non-Farming Populations in South Dakota: Associations with Parathyroid Hormone, Body Fat and Bone Density. *Topics in Clinical Nutrition*. (in press)

Specker B, Wey H, Binkley T, Beare T, Minett M, **Weidauer L**. (2015) Rural vs. Non-rural Differences and Longitudinal Bone Changes by DXA and pQCT in Men Aged 20-66 years: A Population-Based Study. *Bone*. 79: 79-87. PMID: 25957824

Binkley, T., **Weidauer, L.**, Daughters, S., Vukovich, M. (2015) Changes in Body Composition in Division I Football Players Over a Competitive Season and Recovery in Off-Season. *Journal of Strength and Conditioning Research*. (in press)

**Weidauer, L**, Wey, H, Slater, H, Moyer-Mileur, L, Specker, B. (2014) Estimation of Length or Height in Infants and Young Children Using Ulnar and Lower Leg Length with DXA Validation. *Developmental Medicine and Child Neurology*, 56: 995-1000.

**Weidauer L**, Binkley, T, Vukovich, M, Specker, B. (2014) Greater Polar Moment of Inertia at the Tibia in Athletes Who Develop Stress Fractures. *Orthopaedic Journal of Sports Medicine*, 2(7). PMID: 26535343

**Weidauer LA**, Minett M, Binkley T, Negus C, Vukovich M, Wey H, Specker B. (2014) Odd-Impact Loading Results in Increased Cortical Area and Moments of Inertia in Collegiate Athletes. *European Journal of Applied Physiology*, 114(7): 1429-1438. PMID: 24664495

Roiger T, **Weidauer L**, Kern, B. (2014) A Longitudinal Pilot Study of Depressive Symptomology in Concussed and Injured, Non-Concussed Division I Student-Athletes. *Journal of Athletic Training*, 50(3): 256-261. PMID: 25562455

Binkley, T, Parupsky, E, Kleinsasser, B, **Weidauer, L**, Specker, B. (2014) Feasibility, Compliance, and Efficacy of a Randomized Controlled Trial Using Vibration in Pre-pubertal Children. *Journal of Musculoskeletal and Neuronal Interactions*, 14(3): 294-302. PMID: 25198224

Nichenametla SN, **Weidauer LA**, Wey HE, Beare TM, Specker BL, Dey M. (2014) Resistant starch type 4-enriched diet lowered blood cholesterols and improved body composition in a double blind controlled crossover intervention. *Molecular Nutrition and Food Research*, 58(6): 1365-1369. PMID: 24478107

**Weidauer L**, Binkley T, Berry R, Specker B. (2013) Variation in Cortical Density within the Cortical Shell of Individuals across a Range in Densities and Ages. *Journal Musculoskeletal Neuronal Interactions*, 13(1): 89-96. PMID: 23445918

**Weidauer L**, Eilers M, Binkley T, Vukovich M, Specker B. (2012) Effect of different collegiate sports on cortical bone in the tibia. *Journal Musculoskeletal Neuronal Interactions*, 12(2): 68-73. PMID: 22647279

### **ABSTRACT PRESENTATIONS**

**Weidauer, L.**, Binkley, T., Beare, T., Minett, M., McCormack, L., Specker, B. Falls and Fractures in Three Populations Aged 20 to 66 Years. American Academy of Orthopedic Surgeons Musculoskeletal Sex Differences throughout the Lifespan Research Symposium, July 2014. *Abstract selected for a Young-Investigator Travel Award.*

Zwart, M., Blenkinsop, O., **Weidauer, L.** The Effect of a Six Week Balance Training Program on Postural Stability. National Athletic Trainer's Association Annual Meeting, June 2013.

Hanline, V., **Weidauer, L.**, Olson, B. Test-Retest Reliability of the Stability Evaluation Test of VSR™ Sport in a Pediatric Sample. National Athletic Trainer's Association Annual Meeting, June 2013.

**Weidauer L.** Bone Changes in Athletes: Beyond Bone Density. South Dakota State University Health and Nutrition Conference, March 2013.

**Weidauer L.**, Eilers M, Negus C, Wey H, Vukovich M, Specker B. Bone changes in athletes throughout a competitive season. American Society for Bone and Mineral Research Annual Meeting, October 2012. *ASMBR Annual Meeting President's Poster Competition Award Winner.*

**Weidauer L**, Eilers M, Vukovich M, Binkley T, Specker B. (2011) The effect of different sport activities on cortical bone in the tibia. *Med Sci Sports Exerc* 43(5): 248-249. Abstract presented at the ACSM Annual Meeting in May of 2011.

**RESEARCH FUNDING**

South Dakota State University Scholarly Excellence Grant: “The Role of Female Sex Hormones on Neuromuscular Factors Related to ACL Injuries”, 2014-2015. \$9,000

Role: Principal Investigator

South Dakota State University Academic and Scholarly Excellence Grant: “A Longitudinal Examination of Post-Concussion Depressive Symptomology in Division I Student-Athletes”, 2014-2015. \$2,900

Role: Co-Investigator

National Children’s Study Formative Research Project “LOI3 PHYS-02: Assessment of Growth in Infants and Children from Birth to 5 Years of Age using Ulnar and Lower Leg Length”, 2010-2011. \$10,489

Role: Co-Principal Investigator with Dr. Bonny Specker

**JOURNAL REVIEWER**

Clinical Orthopedics and Related Research                      2016

International Journal of Sports Medicine                              2015

Developmental Medicine and Child Neurology                      2014

Bone    2014

Clinical Interventions in Aging    2013

Journal of Athletic Enhancement    2013

**HONORS AND AWARDS**

2014    Young Investigator Award: American Academy of Orthopedic Surgeons Musculoskeletal Sex Differences throughout the Lifespan Research Symposium

2012    President’s Poster Competition Award at the American Society for Bone and Mineral Research Annual Meeting

2008    Phi Kappa Phi

2008 Golden Key National Honour Society

2006 Mark Amundson and Margaret Schmidt Amundson Athletic Training Scholarship

**PROFESSIONAL MEMBERSHIPS**

American College of Sports Medicine

American Society for Bone and Mineral Research

**SKILLS AND TRAINING**

Extensive background in biostatistics, epidemiology, and experimental design

Competency in data analysis using STATA, R, and JMP statistical software

Certified Athletic Trainer, ATC

Skill in densitometry using both dual-energy x-ray absorptiometry (DXA) and peripheral quantitative computed tomography (PQCT): attended the International Society for Clinical Densitometry Clinician's Course for Clinical Densitometrists in December, 2011

**TEACHING EXPERIENCE**

*Fall 2012-Present:* Instructor for Introduction to Athletic Training

*Fall 2012-Present:* Instructor for Prevention and Care of Athletic Injuries Lab

*Fall 2009-Spring 2010:* Clinical Instructor for the Athletic Training Education Program  
Responsibilities: Managing and supervising students during clinical experience, teaching students to apply classroom knowledge and skills in professional practice, teaching hands-on skills, and assessing competencies.

*Fall 2009:* Teaching Assistant in Athletic Training Techniques: General Medical Assessment  
Responsibilities: Preparing and presenting lecture material, preparing assessment tools, instructing students during the laboratory portion, and assessing competencies.

**ACADEMIC AND COMMUNITY SERVICE**

- 2013-2015     Selection committee for bachelors and master's degree athletic training education programs
  
- 2013-2015     Search committee for graduate assistant athletic trainer position.
  
- 2012-2015     Hosted a field trip for high school seniors to introduce them to the various opportunities that are present in scientific careers.
  
- 2012            Mentored a fellow PhD student in the statistical analysis for their dissertation
  
- 2011            Student mentor for an English as a second language masters student