

CURRICULUM VITAE

CARRIE PENLAND EARTHMAN, PHD, RD, LD

Work Address:

Department of Behavioral Health and Nutrition
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EDUCATION:

1999 **Ph.D. Nutritional Sciences**, University of Arizona, Tucson, Arizona
1995 **M.S. Nutritional Sciences**, University of Illinois, Champaign, Illinois
1991 **R.D. Dietetic Internship**, Shadyside Hospital, Pittsburgh, Pennsylvania
1989 **B.S. Human Nutrition and Foods**, Virginia Tech University, Blacksburg, Virginia

REGISTRATION AND CERTIFICATION:

Licensed Medical Radiation Technician, Limited to Bone Densitometry (Certificate # 10138; by the State of Delaware Authority on Radiation Protection; 7/25/19 – 7/25/22)
Registered Dietitian (R.D., R-801156; by the Commission on Dietetic Registration through The American Dietetic Association; 1991 - present)
Licensed Dietitian (L.D., #2329; by the State of Minnesota Board of Dietetics and Nutrition Practice; 2003 – 2019)

PROFESSIONAL EXPERIENCE:

2019 – **Professor, Nutrition**
Department of Behavioral Health and Nutrition, University of Delaware, Newark, DE

2019 – **Research Director, Nutrition Clinic at STAR Health**
Science, Technology and Research (STAR) Center Campus, University of Delaware, Newark, DE

2019 – 2022 **Fulbright Specialist**, US Department of State, Bureau of Educational and Cultural Affairs

2017 – 2018 **Advisor to the Department Head** (*1 of 4 members of a leadership council appointed to advise the new Department Head*)
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN

2017 – 2019 **Co-Chair, Undergraduate Program in Nutrition**

2015 – 2019 **Professor, Nutrition**

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- Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 2009 – 2015 **Associate Professor, Nutrition**
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 2013 – 2019 **Adjunct Faculty Member**, Department of Medicine, Division of Diabetes, Endocrinology and Metabolism, University of Minnesota-Twin Cities, MN
- 2013 – 2019 **H.T. Morse Alumni Distinguished Teaching Professor**
- 2009 – **External Advisor/Executive Committee Member**, Doctoral Program in Physiology and Nutrition, Department of Medicine and Surgery, University of Rome – Tor Vergata, Rome, Italy
- 2011 – 2012 **Visiting Professor**, Department of Nutrition and Dietetics, Hanze University of Applied Sciences, Groningen, the Netherlands
- 2010 – 2011 **Visiting Scholar**, Department of Nutrition and Dietetics, VU University Medical Center, Amsterdam, the Netherlands
- 2003 – 2009 **Assistant Professor, Nutrition**
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 2007 – 2013 **Adjunct Assistant Professor**, Department of Medicine, Division of Endocrinology and Diabetes, University of Minnesota-Twin Cities, MN
- 2003 – **Graduate Faculty in Nutrition**, Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 2005 – 2019 **Director of the Didactic Program in Dietetics**
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 2003 – 2006 **Director of the Coordinated Program in Dietetics**
Department of Food Science and Nutrition, University of Minnesota, St. Paul, MN
- 1999 – 2002 **Assistant Professor, Nutrition**
Department of Human Nutrition, Foods and Exercise, Virginia Tech University, Blacksburg, VA
- 1995 – 1998 **Graduate Teaching Assistant**
Department of Nutritional Sciences, University of Arizona, Tucson, AZ
- 1998 **Graduate Teaching Assistant**
Department of Nutritional Sciences, University of Arizona
- 1995 – 1998 **Graduate Research Assistant**
Department of Nutritional Sciences, University of Arizona
- 1995 – 1999 **Consulting Dietitian (HIV/AIDS)**
El Rio Special Immunology Associates, Tucson, Arizona
- 1997 – 1998 **Consulting Dietitian (Eating Disorders)**
Cottonwood de Tucson, Tucson, Arizona
- 1996 – 1998 **Clinical Dietitian (Nutrition Support)**

- St. Mary's Hospital, Tucson, Arizona
1993 – 1995 **Graduate Teaching Assistant**
Division of Nutritional Sciences, University of Illinois, Urbana, Illinois
1993 – 1995 **Graduate Research Assistant**
Division of Nutritional Sciences, University of Illinois, Urbana, Illinois
1991 – 1993 **Clinical Dietitian and Intern Preceptor**
Shadyside Hospital, Pittsburgh, Pennsylvania
1990 **Public Health Nutritionist**
Portsmouth Public Health, WIC Program, Portsmouth, Virginia

INDUSTRY AND CONSULTING EXPERIENCE:

- 2014 – 2015 Expert Witness, Clinical Nutrition, Gislason&Hunter LLP
2012 – 2016 Scientific Consultant (Body Composition Expert for Rose Ann DiMaria-Ghalili's Grant #002530-002 "Body Composition Changes and Late Health Outcomes in Older Adults Undergoing Cardiac Surgery"), Nutrition Sciences Department, Drexel University
2011 Scientific Consultant, Advisory Board on "Advancement on Measuring and Activating Protein Anabolism", Baxter Healthcare Corporation
2011 Educational Consultant, Abbott Nutrition
2011– 2015 Scientific Consultant, Clinical Trial Development, Hormel Foods Corporation, Austin, MN
2009 Expert Witness, Clinical Nutrition, Allston and Bird, LLP
2008 Educational Consultant, Presentation: "Evidence Analysis Process of the American Dietetic Association: Applications and Implications", Hormel Foods Corporation, Austin, MN.

ACADEMIC AWARDS AND HONORS:

- 2014 Stanley J. Dudrick Research Scholar Award, American Society for Parenteral and Enteral Nutrition
2013 Horace T. Morse - University of Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education
2013 A.S.P.E.N. Leadership Retreat, 3-day meeting, November 2013.
2012 Distinguished Teaching Award for Tenured Faculty, College of Food, Agricultural and Natural Resource Sciences, University of Minnesota
2010 Selected Participant, Dannon Nutrition Academic Mid-Career Leadership Institute, 5-day meeting, June 2010.
2010 American Dietetic Association Outstanding Dietetics Educator Award for Area 2 (7 Didactic Program in Dietetics Directors representing the 7 geographical regions in the US receive this award annually)
2010 Minnesota Dietetic Association Outstanding Dietetics Educator Award
2010 Nominated for the Horace T. Morse - University of Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education

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- 2008 Distinguished Teaching Award for Non-Tenured Faculty, College of Food, Agricultural and Natural Resource Sciences, University of Minnesota
- 2007 Award for Excellence in the Practice of Dietetics Research, American Dietetic Association
- 2006 New Career Excellence Award, College of Human Ecology, University of Minnesota
- 2000 The American Dietetic Association Research Dietitians Practice Group 2000 First Author Published Paper Award

PROFESSIONAL AFFILIATIONS:

- 1990 – present **Academy of Nutrition and Dietetics**
Current Dietetic Practice Groups: Dietitians in Nutrition Support; Dietitians in Research; Dietetic Educators of Practitioners; Hunger and Environmental Nutrition; Oncology Dietitians
Service to organization:
2010 – 2014: *Member*, Energy Expenditure Update Evidence Analysis Workgroup
- 1991 – present **American Society for Parenteral and Enteral Nutrition**
Service to organization:
2020 – 2021: Co-PI, Research Workshop NIH Grant
2017 – 2018: *Member*, ASPEN Research Agenda Revision Workgroup
2014 – 2017: *Member*, Stanley J. Dudrick Research Scholar Award Selection Committee
2015 – present: *Member*, Leadership Council, Research Section
2013 – 2015: *Chair*, Research Section
2010 – present: *Member*, Research Committee
2012 – 2016: *Member*, Malnutrition Committee
2012 – 2016: *PI*, Research Workshop NIH Grants (for 2013 RW, 2014 RW, 2015 RW)
2021 – 2022 *Co-PI*, Research Workshop NIH Grant for 2022 RW (submitted and under review)
- 2003 – present **Minnesota Academy of Nutrition and Dietetics**
- 2004 – present **American Society for Nutrition** (Nutritional Sciences/Clinical Nutrition), Regular Member
- 2010 – present **European Society of Clinical Nutrition and Metabolism**
- 1999 – 2003 **American Society for Nutritional Sciences/Clinical Nutrition**, Associate Member
- 2001 – 2003 **Sigma Xi, The Scientific Research Society**

TEACHING ACTIVITIES

Courses as Primary Instructor at the University of Delaware:
NTDT 822 Advanced Nutrition Assessment (2021)

NTDT 812 Current Topics in Nutrition (2019, 2020)
NTDT 451 Medical Nutrition Therapy II (2020, 2021)

Courses as Primary Instructor at the University of Minnesota:

FSCN 4665 Medical Nutrition Therapy I (2003 – 2018)
FSCN 4666 Medical Nutrition Therapy II (2003 – 2018)
FSCN 4664 Senior Capstone: Becoming a Registered Dietitian (2009 – 2018)
FSCN 4667 Senior Seminar (2013 – 2018)

Guest Lectures at the University of Minnesota:

FScN 4621 Nutrition and Metabolism

Protein Digestion and Requirements; and Overview of Amino Acid Metabolism (2004 – 2009, 2011 – 2018)

Amino Acid Metabolism: Liver (2004 – 2009, 2011 – 2018)

Amino Acid Metabolism: Intestine, Muscle, and Kidney (2004 – 2009, 2011 – 2018)

Interorgan Glutamine Metabolism (2004 – 2009, 2011 – 2018)

NUTR 8620 Special Topics in Nutrition Science

Hot Topics in Clinical Nutrition: Evidence Analysis and Indirect Calorimetry (3-day lecture series in 2009)

Body Composition in Nutrition Assessment: Methodological Concerns and Applications (3-day lecture series in 2013)

NUTR 5621 Macronutrient Metabolism

Overview of Amino Acid Metabolism (2007, 2008)

Amino Acid Metabolism: Liver (2007, 2008)

Amino Acid Metabolism: Intestine, Muscle, and Kidney; and Interorgan Glutamine Metabolism (2007, 2008)

FScN 4696 Field Experience: Medical Nutrition Therapy I

Nutrition Assessment and Support - 2-Hour/Day, Several Day Workshop (2003 - 2005)

Advanced Nutrition Support: Enteral and Parenteral Nutrition - 2-Hour Workshop (2004)

FScN 4896 Field Experience: Medical Nutrition Therapy II

An Introduction to Renal Disease - 2-Hour Workshop (2003 - 2006)

FScN 3796 Field Experience in Food Service Management

Enteral Nutrition Support - Half-Day Workshop (2004)

Courses as Primary Instructor at Virginia Tech:

HNFE 3026 Metabolic Nutrition: Protein and Vitamins and Minerals (2000 – 2002)

HNFE 4144 Advanced Clinical Nutrition (2001, 2002)

HNFE 5984 Clinical Applications in Nutrition Science (2002)

HNFE 4684 Current Topics in Clinical Nutrition Practice (2002)

HNFE 4004 Undergraduate Seminar in Nutrition (2001, 2001)

RESEARCH/SCHOLARLY ACTIVITIES:

Research Interests:

- Body composition, energy metabolism, and nutrition assessment/support in chronic and acute illness
 - Treatment and assessment of malnutrition and lean tissue quantity/quality loss in clinical populations, particularly individuals with cancer, HIV infection, GI disorders, heart failure, pulmonary disease, and obesity
 - Development of noninvasive methods for bedside body composition and nutritional status assessment in clinical settings
 - Nutritional management post-bariatric surgery

Funded Research Projects:

1. “Prevalence of Malnutrition in Survivors of Critical Illness and Validation of the New Global Leadership on Malnutrition (GLIM) Criteria for Diagnosing Malnutrition: A Prospective Observational Study”, Lambell K (PI, The Alfred Hospital and Australian and New Zealand Intensive Care Research Center (ANZIC RC) at Monash University). **Earthman CP** (Associate Investigator), The Australasian Society of Parenteral and Enteral Nutrition; \$15,000 AUD. Project period: 1/4/21 – 12/31/22.
2. “Identifying Healthy and High-Risk Weight Loss Phenotypes to Optimize Obesity Management in End-Stage Kidney Disease”, Harhay M (PI, Drexel University College of Medicine). **Earthman CP** (Consultant), NIH/NIDDK R01 DK124388; 5-y Award (Direct Costs): \$988,811. 6/1/20 – 5/30/25.
3. “Developing a Wearable Hydration Monitor for Firefighters”, Hall M and **Earthman CP** (Co-PI). Center for Innovative Health Research, College of Health Sciences, University of Delaware; \$4,071. 12/2/19 – 12/1/20.
4. “The Consequences of Malnutrition in Mechanically Ventilated Critically Ill Children – A Multicenter Prospective Cohort Study of Nutritional Practices and Clinical Outcomes in Pediatric Intensive Care Units Around the World”, Bechard L (PI, Boston Children’s Hospital and Harvard Medical School), **Earthman CP** (Collaborator). American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation Grant; \$50,000. 1/1/18 – 6/30/21 (2-year grant with no-cost extension).
5. “Use of Bedside Ultrasound to Assess Neonatal Body Composition in the NICU”, Nagel E (PI – doctoral student of CPE), **Earthman CP** (Co-PI). Gerber Foundation; \$20,000. 1/1/18 – 12/31/20.
6. “Use of Bedside Ultrasound to Assess Neonatal Body Composition in the Neonatal Intensive Care Unit”, Remel S (PI), **Earthman CP** (Co-I), and Demerath E (Co-I), Nagel E (Student Investigator and CP Earthman’s Doctoral Student), Healthy Foods, Healthy Lives, University of Minnesota; \$10,000. 7/15/17 – 7/15/18.
7. “Opportunities for Bioimpedance Spectroscopy Utilization in the Clinical Setting”, **Earthman CP (PI)**, ImpediMed, Inc; \$90,000. 9/1/16 – 8/30/20.
8. “Determination of Protein Requirements Using Stable Isotope Multi-Step Feeding Protocol

- and Evaluation of an Innovative Ultrasound Device and other Bedside Technologies for Lean Tissue Assessment in Individuals with Head and Cancer”, Price K (PI and CP Earthman’s Doctoral Student) and **Earthman CP** (Co-I), American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation Grant; \$25,000; 1/1/16 – 1/31/21 (on extension).
9. “Determination of Protein Requirements Using Stable Isotope Multi-Step Feeding Protocol and Evaluation of and Innovative Ultrasound Device and other Bedside Technologies for Lean Tissue Assessment in Individuals with Head and Cancer”, **Earthman CP** (PI), Nutricia Research Grant; €25,000 (~\$27,300); 3/1/16 – 8/31/20 (on extension).
 10. “Body Composition in Health and Disease: Key Targets and Assessment Strategies”, **Earthman CP (PI)**, USDA/Minnesota Agricultural Experiment Station (Hatch Funding, MIN-18-122H); \$200,000. 10/1/17 – 1/14/19. (Funding ended with resignation from salaried faculty position at UMN)
 11. “Bedside Evaluation and Monitoring of Nutritional Status”, **Earthman CP** (PI). Gift Funds to **Earthman, CP**, BodyStat LTD (Isle of Man, UK); \$40,000 in four \$10,000 payments on 6/1/14, 9/1/14, 12/1/14, 3/1/15. Project: 6/1/14 – 5/31/17.
 12. “ASPEN 2015 Research Workshop: Taste Signaling: Impact on Food Selection, Intake, and Health”, **Earthman CP**. (PI – 5%); NIH 1R13DK102191-01; \$31,577 (requested); \$18,500 (funded); 6/1/14 – 5/31/15.
 13. “Long-term Implications of Gastric Bypass Surgery on Micronutrients and Nutritional Status”, **Earthman CP** (Co-PI), Sibley SD (Co-PI), Cole A (Co-PI), Clinical Translational Research Services; \$29,000; 10/1/13 – 9/30/15.
 14. “Development of Bed-Side Body Composition Assessment Tools for the Clinical Setting”, **Earthman CP** (PI). Gift Grant to **Earthman, CP**, BodyStat LTD (Isle of Man, UK); \$5,750; 8/1/13.
 15. “Integrating Experiential and Interprofessional Learning into the Didactic Program in Dietetics (DPD) Curriculum”, **Earthman CP** (PI). CFANS RFP for Infusing Experiential Learning and Interdisciplinary Perspectives into the Curriculum; \$150,729 (requested); \$75,000 (funded). 8/1/13 – 7/31/15.
 16. “ASPEN 2013 Research Workshop: The Interface between Nutrition and the Gut Microbiome”, **Earthman CP** (PI – 5%); NIH 1R13DK097953-01; \$33,217 (requested); \$5,000 (funded). 2/5/13 – 1/31/14.
 17. “Supplemental Funding for Body Composition and Nutritional Status Across the Clinical Spectrum: From Obesity to Wasting”, **Earthman CP** (PI); Minnesota Agricultural Experiment Station/College of Food, Agriculture, and Natural Resource Sciences Fund, \$15,500; FY12-13
 18. “Minnesota Obesity Prevention Training”, Jeffrey R (Program Director), Kotz CM (Co-Director), Billington C (Co-Director); **Earthman CP** (Faculty Mentor); NIH/NIDDK T32 DK083250; \$2,389,965; 4/01/2010 - 3/31/2015.
 19. “Training Program in Nutrition and Cancer” (Director: Kristin Anderson, EpiCH; Co-director: M. Kurzer, FScN), **Earthman CP** (Faculty Mentor); NIH/NCI T32CA132670; \$1,864,466; 09/1/2009 – 08/31/2014.

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20. “Body Composition and Nutritional Status Across the Clinical Spectrum: From Obesity to Wasting”, **Earthman, CP** (PI). USDA/Minnesota Agricultural Experiment Station Project (Hatch Funding, MIN-18-053H); \$150,000; 10/1/09 – 9/30/14. Renewed 10/1/14 – 9/30/17.
21. “Body Composition Changes and Late Postoperative Health Outcomes in Older Adults Undergoing Cardiac Surgery” (PI Rose Ann DiMaria-Ghalili, Drexel University), **Earthman CP** (Scientific Consultant); American Nursing Board; \$24,800; 9/1/2012 – 8/31/13, extension granted to 8/31/14.
22. “In Vitro and In Vivo Antihypertensive Activity of Peptides Derived from Selectively Hydrolyzed Soy Proteins”, Ismail, B (PI), **Earthman, CP** (Co-PI); United Soybean Board, \$10,000 research incentive award/gift for submitting an NIH grant by October 2008.
23. “Acute Effects of Whey Protein-Derived Peptides on the Renin-Angiotensin System in Extremely Obese Women”, **Earthman CP** (PI), Sibley, S (Collaborator); Midwest Dairy Association, \$130,740; 1/1/08 – 1/1/11. Extension granted until 5/31/12.
24. “Clinical Implications of Massive Weight Loss and Body Composition Changes in Obese Women After Gastric Bypass Surgery”, **Earthman CP** (PI); Minnesota Agricultural Experiment Station/College of Human Ecology Administrative Fund, \$108,000; FY07-08 and FY07-09.
25. “Body Composition and Nutritional Status Across the Clinical Spectrum: From Obesity to Wasting”, **Earthman, CP** (PI). USDA/Minnesota Agricultural Experiment Station Project (Hatch Funding, MIN-18-053H); \$380,000; 10/1/03 – 9/30/06. Renewed for 10/1/06 – 9/30/09.
26. Exercise Responses in Four ESRD Treatments, Painter P, **Earthman CP** (Co-Investigator - 5%), NIH/NINR, \$1,062,916. Grant ended 6/30/08; Was added as a Co-Investigator 1/07.
27. “Whey Protein Supplementation for Nutritional Management After Gastric Bypass Surgery”, **Earthman CP**. Midwest Dairy Association, \$49,000; 1/1/06 – 12/31/08.
28. “Clinical Implications of Gastric Bypass Surgery”, **Earthman, CP**. American Society for Parenteral and Enteral Nutrition (ASPEN) Rhoads Research Foundation, \$25,000; 3/1/05 – 3/1/06. Second year of funding granted for \$25,000; 3/1/06 – 3/1/07. Grant extended through 3/1/08.
29. “Development of a Milk-Based Protein Supplement for Clinical Use”, **Earthman CP** and Metzger L. Midwest Dairy Association, \$8,500; 6/1/05 – 6/1/06.
30. “Continuing Education for Dietitians Regarding Nutrigenomics.” Reicks, M, **Earthman, CP**, Marquart, L. Cargill Inc., \$25,000 gift grant; 1/1/05.
31. “Development of a Pedagogical and Technological Framework to Support Problem-Based Learning: A Collaboration Among Faculty and Staff in the BSI and CEUT”, Bevan, D, Bevan, P, Duncan, S, **Earthman, C**, Erskine, Z, Lederman, M, Leiferman, J, Shires, P, Thye, F. Center for Innovation In Learning Grant, \$25,000; 7/02 – 7/04.
32. “Development of a Graduate Case-Based Clinical Nutrition Course”, **Earthman, CP** (PI - 5%), Bevan, P, and Erskine, Z; Center for Excellence in Undergraduate Teaching Summer Faculty Fellow; \$2500; 7/1/02 – 8/15/02.
33. “Impact of Anabolic Therapy on Respiratory Function, Body Cell Mass, and Health-

- Related Quality of Life in Underweight Individuals with COPD: A Placebo-Controlled Randomized Trial”, **Earthman CP**, Iranmanesh, A, and Martin T (PI - 10%); Unimed Pharmaceuticals, Inc.; No funding, but free testosterone gel and placebo gel was granted to support the study; 5/02.
34. “Testosterone-Gel As Adjunct Therapy for COPD-Associated Weight Loss: Impact on Body Cell Mass, Clinical Status, and Quality of Life”, **Earthman CP** (PI - 20%); ASPEN Rhoads Research Foundation Maurice E. Shils Grant; \$25,000; 4/02 – 6/03.
 35. “Arginine Supplementation as Adjunctive Therapy for Healing of Pressure Ulcers”, **Earthman, CP** (Principal Investigator, 50%) and Roberson, AE; Novartis Nutrition Corporation; \$70,000 total commitment from Novartis, \$41,000 via Office of Sponsored Programs to Virginia Tech; 4/15/02 – 10/15/03.
 36. “Dietary Intake in Nursing Home Residents with Pressure Ulcers”, Magee, A and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$750; Spring 2002.
 37. “Body Cell Mass Changes in COPD Patients After Testosterone Therapy”, Fine, M. and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$750; Spring 2002.
 38. “Hydration and Nutritional Status of Nursing Home Residents”, McCall, P and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$500; Fall 2001.
 39. “Arginine Supplementation and Pressure Ulcer Healing”, Davis, A and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$500; Fall 2001.
 40. “Dietary Intake and Resting Energy Expenditure Changes in Postmenopausal Women in Response to Strength Training”, Hylton, MB and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$500; Fall 2000.
 41. “Bioimpedance Spectroscopy Measures Body Cell Mass Changes in Post-menopausal Women Undergoing Strength Training”, Hannah, M and **Earthman, CP** (faculty advisor). Biological Sciences Initiative Undergraduate Research, Virginia Tech; \$500; Fall 2000.
 42. “Development of a clinical nutrition course to enhance problem-solving”, **Earthman, CP** (PI - 5%), Bevan, P, and Erskine, Z; Center for Excellence in Undergraduate Teaching Summer Faculty Fellow; \$5063; Summer 2000.
 43. The American Dietetic Association Research Dietitians Practice Group 2000 First Author Published Paper Award, \$500.
 44. “Development of the Comprehensive Bone and Body Composition Laboratory in the Department of Human Nutrition, Foods and Exercise at Virginia Tech”, Nickols-Richardson, SM and **Earthman, CP** (Co-PI - 10%); ASPIRES Program, Research and Graduate Studies, Virginia Tech; \$40,000; 1999-2000.
 45. “Transforming a Metabolic Nutrition Course to Enhance Student Learning”, **Earthman, CP** (PI - 5%); Biological Sciences Initiative Grant; \$3000; 11/1/99 – 6/1/00
 46. Gift Grant to **Earthman, CP**, BTG Pharmaceuticals, Iselin, NJ; \$10,000; 8/1/99.
 47. “Body Composition and Quality of Life Changes in HIV Infection”, **Earthman, CP** (PI -

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50%); Dietitians in Nutrition Support Dietetic Practice Group's Research Award, American Dietetic Association Foundation, Project # 9802369A; \$3000; 7/1/98 – 7/1/99.

Unfunded Ongoing Research Projects:

1. “Altered Body Composition and Nutritional Status Assessment in the Pediatric Post Liver Transplant Population: Implications and Assessment”, Larson-Nath C (PI), University of Minnesota Department of Pediatrics, Division of Pediatric Gastroenterology, Hepatology, and Nutrition, and **Earthman CP** (Co-PI).
2. “Phase Angle and Specific BIVA: A Multicenter International Collaboration”, Silva A, Heymsfield SB, Strauss B, Marini E, Heitmann B, Ward L, Gonzalez MC, Bosy-Westphal A, Lukaski H, **Earthman CP** (Co-Investigators)

Unfunded Recently Completed Research Projects:

1. “Investigation of Novel Ultrasound Techniques for Assessment of Muscle in Clinical Populations”, **Earthman CP** (PI) and Anthony B (Co-PI, Institute for Medical Engineering & Science, MIT)
2. “VALIDation of Bedside Ultrasound of Muscle Layer Thickness of the Quadriceps in the Critically Ill Patient: The VALIDUM Study”, Heyland D (PI), **Earthman CP** (Co-Investigator); 6/1/13 – 8/31/15.
3. “Nutritional Status Among Individuals with Head and Neck Cancer”, **Earthman CP** (PI), 6/1/13 – 8/31/15.
4. “Topical Vitamin D Supplementation in Cystic Fibrosis”, Billings J (PI), **Earthman CP** (Technical Advisor), 5/1/13 – 4/30/15.
5. “The Examination of Nutritional Deficiencies from Various Bariatric Surgeries: A Retrospective Investigation”, **Earthman CP** (PI), 5/1/13 – 4/30/15.
6. “Analysis of DXA Data Compared with a Predictive Equation (ADD-CAPE)”, Boullata JI, Beckman LM, Compher CW, and **Earthman CP** (PI), 4/1/13 – 3/31/14.
7. “Investigation of a New Paradigm for Bioimpedance Spectroscopy Applications for Body Composition Estimates in Clinical Populations”, Matthie JR, Kuchnia A, Cole AJ, and **Earthman CP** (PI), 6/1/15 – 8/31/17.

Publications:

Refereed Research Papers

1. Perteet-Jackson AD, **Earthman CP**, Price KL, Hanson A, Shyne MP, Larson-Nath, CM. Body composition assessment after pediatric liver transplant. *JPEN* 2021: 1 - 9. DOI: 10.1002/jpen.2105.
2. Nagel EM, Hickey M, Teigen LM, Kuchnia A, Schifsky H, Holm, T, **Earthman CP**, Demerath E, Ramel SE. Ultrasound measurements of abdominal muscle thickness are associated with postmenstrual age at full oral feedings in preterm infants: A preliminary study. *Nutr Clin Pract* 2021: 1 – 8. DOI: 10.1002/ncp.10670

3. Lambell KJ, **Earthman CP**, Tierney AC, Goh GS, Forsyth A, King SJ. How does muscularity assessed by bedside methods compare to computed tomography muscle area at intensive care unit admission? A pilot prospective cross-sectional study. *J Hum Nutr Diet* 2021; 34: 345 – 355. DOI: [10.1111/jhn.12804](https://doi.org/10.1111/jhn.12804)
4. Nagel E, Desjardins C, **Earthman C**, Ramel S, Demerath E. Weight for length measures may not accurately reflect adiposity in preterm infants born appropriate for gestational age during hospitalization or after discharge from the neonatal intensive care unit. *Ped Obes* 2021;16:e12744. E-pub ahead of print. DOI: [10.1111/jipo.12744](https://doi.org/10.1111/jipo.12744)
5. Nagel E, Hickey M, Teigen L, Kuchnia A, **Earthman C**, Demerath E, Ramel S. Can ultrasound measures of muscle and adipose tissue thickness predict body composition of preterm infants in the neonatal intensive care unit? *J Parenter Enteral Nutr*. 2021;45(2):323-330. DOI: [10.1002/jpen.1829](https://doi.org/10.1002/jpen.1829).
6. Suresh A, Robinson L, Milliron B-J, Leonberg K, McAdams-DeMarco M, **Earthman C**, Klassen A, Harhay MN. Approaches to Obesity Management in Dialysis Settings: Renal Dietitian Perspectives. *J Renal Nutr* 2020;30(6):561-566. DOI: [10.1053/j.jrn.2020.01.021](https://doi.org/10.1053/j.jrn.2020.01.021)
7. Mulasi U, Vock DM, Jager-Wittenaar H, Teigen L, Kuchnia AJ, Jha G, Fujioka N, Rudrapatna V, Patel MR, **Earthman CP**. Nutrition status and health-related quality of life among outpatients with advanced head and neck cancer. *Nutr Clin Pract* 2020; 35(6):1129 - 1137. DOI: [10.1002/ncp.10476](https://doi.org/10.1002/ncp.10476).
8. Bell KE, Schmidt S, Pfeiffer A, Bos L, **Earthman C**, Russell C, Mourtzakis M. Bioelectrical impedance analysis overestimates fat-free mass in breast cancer patients undergoing treatment. *Nutr Clin Pract* 2020;35(6):1029-1040. DOI: [10.1002/ncp.10438](https://doi.org/10.1002/ncp.10438).
9. Baldwin CE, Fetterplace K, Beach L, Kayambu G, Paratz J, **Earthman C**, Parry SM. Early detection of muscle weakness and functional limitations in the critically ill: A retrospective evaluation of bioimpedance spectroscopy. *JPEN* 2020;44(5): 837 - 848. DOI: [10.1002/jpen.1719](https://doi.org/10.1002/jpen.1719).
10. Teigen LM, Kuchnia AJ, Nagel E, Deuth C, Vock DM, Mulasi U, **Earthman CP**. Impact of software selection and ImageJ tutorial corrigendum on skeletal muscle measures at the third lumbar vertebra on computed tomography scans in clinical populations. *JPEN* 2018;42(5): 933-941. DOI: [10.1002/jpen.1036](https://doi.org/10.1002/jpen.1036).
11. Mulasi U, Vock DM, Kuchnia AJ, Jha G, Fujioka N, Rudrapatna V, Patel MR, Teigen L, **Earthman CP**. Malnutrition identified by the Academy of Nutrition and Dietetics and American Society for Parenteral and Enteral Nutrition consensus criteria and other bedside tools is highly prevalent in a sample of individuals undergoing treatment for head and neck cancer. *JPEN* 2018;42(1): 139 - 147. DOI: [10.1177/0148607116672264](https://doi.org/10.1177/0148607116672264).
12. Johnson AJ, Matthie JR, Kuchnia A, Teigen LM, Beckman LM, Mager JR, Nicklay SA, Mulasi U, Sibley SD, Nagel E, **Earthman CP**. Evaluation of advanced bioimpedance spectroscopy models for measuring body composition in healthy adults (NHANES 1999-2004) and those undergoing massive weight loss following Roux-en-Y gastric bypass surgery. *BRASPEN* 2017;32(3): 193-202.
13. Teigen LM, Ranjit J, Kuchnia AJ, Nagel EM, **Earthman CP**, Kealhofer J, Martin C, and Cogswell R. Preoperative pectoralis muscle quantity and attenuation by computed

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1. Smith C, Heidelberger L, Robinson-O-Brien R, **Earthman C**, Robien K. *Authors' Response to Letter to the Editor: Questioning the Definition of Sustainable Agriculture*. *J Acad Nutr Diet* 2017; 117(11): 1725-1726.
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Book Chapters

1. Beckman LM and **Earthman CP**. Alterações na regulação neuroendócrina do balanço energético após a cirurgia bariátrica (Alterations in the neuroendocrine regulation of energy balance after bariatric surgery). In: Netto BDM, Dâmaso A, Bettini SC, eds. *Obesidade Mórbida Manejo Clínico e Interdisciplinar (Morbid Obesity Clinical and Interdisciplinary Management)*. São Paulo, Brazil: Editora Unifesp 2018. Written in English, Translated into Portuguese for publication. ISBN 978-85-5571-021-6.

Abstracts

1. Price K, **Earthman C**, Lighthart-Melis G, Ten Have G, Deutz NEP, Perteet-Jackson A, Mulasi U, Sibley S, Klein M, Kuchnia A. Evaluation of a multi-step feeding protocol of stable isotope amino acid tracers to determine anabolic threshold and capacity in patients with head and neck cancer on concurrent chemoradiation therapy. American Society for Parenteral and Enteral Nutrition Nutrition Science & Practice Conference (Virtual), March 21, 2021. Abstract 945177. Refereed Abstract and Oral Presentation. ***Awarded Best of ASPEN - Malnutrition, obesity, nutrition practice concepts and issues***
2. Price K, **Earthman C**, Lighthart-Melis G, Ten Have G, Deutz NEP, Perteet-Jackson A, Mulasi U, Sibley S, Klein M, Kuchnia A. Evaluation of a multi-step feeding protocol of stable isotope amino acid tracers to determine anabolic threshold and capacity in patients with head and neck cancer on concurrent chemoradiation therapy. American Society for Parenteral and Enteral Nutrition, Nutrition Science & Practice Conference (Virtual), ASPEN Oncology Section annual meeting, March 22, 2021. Oral Presentation.
3. Smith LO, Vest MT, Rovner AJ, Shapero ML, Suminski RR, Trabulsi JC, **Earthman CP**. Prevalence and characteristics of starvation-related malnutrition in a mid-Atlantic healthcare system: A cohort study. American Society for Parenteral and Enteral Nutrition Nutrition Science & Practice Conference (Virtual), March 21, 2021. *JPEN* 2021;45(51): S144. Refereed Abstract and Poster Presentation.
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8. Mulasi U, Teigen L, **Earthman CP**. Comparison of Two Bioimpedance Approaches to Assess Lean Tissue During and After Chemoradiotherapy in Advanced Head and Neck

- Cancer Outpatients. ASPEN 2018 Nutrition Science and Practice Conference; Jan 22-25 Las Vegas, NV. Refereed Abstract and Poster Presentation.
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21. Kuchnia A, **Earthman C**, Cole A, Beilman G, Day A, Leung R, Looijaard W, Weijs P, Oudemans-van Straaten H, Mourtzakis M, Paris M, Compher C, Dhaliwal R, Peterson S, Roosevelt H, Heyland D. An evaluation of multifrequency bioimpedance phase angle and impedance ratio as markers of CT-measured low muscularity and live ICU discharge in critically ill patients: Preliminary results from the VALIDation of bedside ultrasound of muscle layer thickness of the quadriceps in the critically ill patient (VALIDUM study). JPEN 2016;40(1):139-140. Poster of Distinction. Clinical Nutrition Week 2016, Jan 16-19, 2016, Austin, TX. Refereed Abstract and Poster Presentation.
22. Cole AJ, **Earthman CP**, Grabau MW, Leslie DB, Slusarek BM, Sibley SD. "Vitamin D status after biliopancreatic diversion: a brief retrospective report", The Obesity Society annual meeting, Boston, MA, 11/2/14 – 11/7/14. Refereed Abstract and Oral Presentation (AJ Cole).
23. **Earthman CP**, Cole AJ, Matthie JR, Kuchnia A, Mager J, Sibley SD, Beckman LM. Evaluation of new advanced bioimpedance spectroscopy models for measuring body composition in healthy individuals and those undergoing massive weight loss. Refereed Abstract and Oral Presentation. Presented at the 10th International Symposium on In Vivo Body Composition Studies 2014. Refereed Abstract and Oral Presentation (CP Earthman). To be published in Eur J Clin Nutr.
24. Jager-Wittenaar H, Dijkstra PU, **Earthman CP**, Krijnen WP, Langendijk JA, van der Laan BFAM, Pruijm J, Roodenburg JLN. Validity of bioelectrical impedance analysis to assess fat-free mass in head and neck cancer patients: an explorative study. JPEN 2013;37(1): 184-185. Refereed Abstract and Oral Presentation (H Jager-Wittenaar).
25. Jager-Wittenaar H, Dijkstra PU, Dijkstra G, **Earthman CP**, Bijzet J, Langendijk JA, van der Laan BFAM, Roodenburg JLN. Prevalence of cachexia in head and neck cancer patients: an explorative study. JPEN 2013;37(1):185-186. Refereed Abstract and Oral Presentation.

26. Beckman LM, **Earthman CP**. Changes in resting energy expenditure and body composition after Roux-en-Y gastric bypass. JPEN 2013;37(1):35-37. Refereed Abstract and Oral Presentation (LM Beckman).
27. Beckman LM, Sibley SD, **Earthman CP**. Subjective satiety improves early after gastric bypass surgery. JPEN 2012;36(1):A20-21. Refereed Abstract and Oral Presentation (LM Beckman).
28. Beckman LM, Sibley SD, **Earthman CP**. Quality of life using a validated obesity-specific questionnaire improves early after gastric bypass surgery. JPEN 2012;36(1): A130-131. Refereed Abstract and Poster Presentation (LM Beckman).
29. **Earthman CP**, Sibley SD, Thomas W, Beckman LM, Mager JR, Beckman TR, Ikramuddin S, Kellogg TA, Weijs PJ, and Kunkel SA. An evaluation of phase angle, impedance ratio, and bioimpedance vector for assessing body composition and clinical outcomes in gastric bypass patients. Int J Obesity. 2011;35(2):S58. Refereed Abstract and Poster Presentation.
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32. **Earthman CP**, Sibley SD, Thomas W, Beckman LM, Mager JR, Bekcman TR, Ikramuddin S, Kellogg TA, Weijs PJ, and Kunkel SA. Comparison of bioimpedance techniques with multiple dilution for assessment of fat free mass and water compartments following gastric bypass surgery. Int J Obesity. 2011;35(2):S25. Refereed Abstract and Oral Presentation (CP Earthman).
33. Beckman LM, Thomas W, Sibley S, Beckman TR, Mager JR, Kellogg TA, Ikramuddin S, **Earthman CP**. Protein supplementation in the early post-operative period following gastric bypass surgery. JPEN 2011;35(1)25-26. Refereed Abstract and Poster Presentation.
34. Beckman LM, Compher CW, Muniz J, Sibley S, Beckman TR, Mager JR, Ikramuddin S, Kellogg TA, **Earthman CP**. Serum 25-OH vitamin D improves after gastric bypass surgery. JPEN 2011;35(1)25. Refereed Abstract and Poster Presentation.
35. Beckman LM, Beckman TR, Sibley SD, Thomas W, Mager JR, Ikramuddin S, Kellogg TA, le Roux C, Bloom S, Ghatei M, **Earthman CP**. Contribution of changes in gastrointestinal hormones and leptin to weight loss after gastric bypass surgery. Clin Nutr 2010;5(S2):181. Refereed Abstract and Poster Presentation.
36. Beckman LM, Compher CW, Muniz J, Sibley S, Beckman TR, Mager JR, Ikramuddin S, Kellogg TA, **Earthman CP**. Serum 25-OH vitamin D improves after gastric bypass surgery. Clin Nutr 2010;5(S2):182. Refereed Abstract and Poster Presentation.
37. **Earthman CP**, Vine SM, Kuskowski M, Painter P. Comparison of bioimpedance spectroscopy and dual-energy X-ray absorptiometry for assessment of fat-free mass in end stage renal disease. Clin Nutr 2010;5(S2):154. Refereed Abstract and Poster Presentation.

38. Beckman LM, Beckman TR, Sibley SD, Thomas W, Ikramuddin S, Kellogg TA, le Roux C, Bloom S, **Earthman CP**. Changes in gastrointestinal hormones and leptin after Roux-en Y gastric bypass surgery. *JPEN* 2010; 34(2): 172. Refereed Abstract and Poster Presentation.
39. Mager J, Sibley S, Beckman T, Kellogg T, Ikramuddin S, and **Earthman C**. An evaluation of the factors related to extracellular fluid expansion in extremely obese women and the role of the renin-angiotensin system. *Obesity* 2008;16(1): S272. Refereed Abstract and Poster Presentation.
40. **Earthman CP**, Sibley SD, Beckman TR, Kellogg TA, Ikramuddin S, and Dobratz JR. Early postoperative fluid changes measured by intravenous deuterium and bromide dilution in gastric bypass surgery patients. *Int J Body Comp Res* 2008;6(2):70. Refereed Abstract and Oral Presentation.
41. **Earthman CP**, Valentine BJ, Sibley SD, Beckman TR, Kellogg TA, Ikramuddin S, and Dobratz JR. The use of an acrylic board to separate regions of interest during dual energy x-ray absorptiometry scanning in extremely obese women. *FASEB J* 2008; 22:1087.3. Poster Presentation.
42. Dobratz JR, Sibley SD, Beckman TR, Lautenschlager LM, Kellogg TA, Ikramuddin S, and **Earthman CP**. Fluid distribution changes after gastric bypass surgery. *FASEB J* 2008; 22:1090.6. Poster Presentation.
43. Dobratz J, Sibley S, Beckman T, Valentine B, Kellogg T, Ikramuddin S, **Earthman C**. Accuracy of multifrequency bioelectrical impedance analysis and bioimpedance spectroscopy for monitoring fluid distribution changes in women after gastric bypass surgery. *JADA* 2007 Supplement 3; 107(8): A-29. Poster Presentation. Refereed Abstract. JRD won a Research DPG Graduate Student Paper Award (one of two) and The Margaret D. Simko Memorial Award for Excellence at the Clinical Poster Session 2007 - 1st Runner-up for her poster.
44. Dobratz J, Sibley S, Beckman T, Kellogg T, Ikramuddin S, **Earthman C**. Validation of a hand-held indirect calorimeter to measure resting energy expenditure in obese women. *FASEB J* 2006; 20:A588. Poster Presentation.
45. Rosen R, **Earthman C**, Marquart L, Reicks M. Assessment of continuing education needs for dietitians about nutrigenomics. *FASEB J* 2005; 19:A461. Poster Presentation.
46. Shafer BD, Thye FW, Herbein JH, Duncan SE, **Earthman CP**. Concentrations of conjugated linoleic acid (CLA) isomers in human plasma reflect intake of dairy products with enhanced c9, t11-CLA or t10, c12-CLA content. *FASEB J* 2002; 16:A635. Poster Presentation.
47. Roberson AE, **Earthman CP**, Unexplained bruising in a young woman: A case of scurvy. *FASEB J* 2002; 16:A245. Poster Presentation.
48. **Earthman CP**, Nickols-Richardson SM, Goldman LP, and Rankin JW. Bioimpedance spectroscopy measures body cell mass change after strength training. *FASEB J* 2002; 16:A1021. Poster Presentation.
49. **Earthman CP**. Body composition and quality of life changes in HIV infection. *Support Line* 2001; 23(1):26. Research Summary Abstract.

50. **Earthman CP** , McMahon, CG , Nickols-Richardson, SM, Goodnight, M, and Hannah, M. Body composition and water distribution in healthy postmenopausal women. *FASEB J* 2001; 15:A252. Oral Presentation.
51. **Earthman CP**, Reid PM, Harper IT, Ravussin E, Howell WH. Body cell mass and body weight increase in human immunodeficiency virus-infected individuals receiving oxandrolone and nutritional intervention. *JADA* 2000 Supplement 1; 100(9): A85. Abstract and Poster Presentation. Refereed Abstract and Poster Presentation.
52. Reid PM, **Earthman CP**, Sawaya D, Weber JL, Delany JP, Houtkooper LB, Howell WH. Bioimpedance spectroscopy measures body cell mass change in exercising postmenopausal women. *Med Sci Sports Exerc* 2000;32:(5 suppl):S113. Refereed Abstract and Poster Presentation.
53. Reid PM, **Earthman CP**, Sawaya D, Weber JL, Delany JP, Houtkooper LB, Howell WH. Strength training exercise lowers total and activity energy expenditure of postmenopausal women. *FASEB J* 2000; 14:A527. Poster Presentation.
54. **Earthman CP**, Reid PM, Harper IT, Ravussin E, Howell WH. Validation of bioimpedance spectroscopy to measure body composition change in HIV infection. *FASEB J* 2000; 14:A497. Poster Presentation.
55. **Earthman CP**, Reid PM, Harper IT, Ravussin E, Howell WH. Resting energy expenditure (REE) to body cell mass (BCM) ratio to assess metabolic status in HIV infection. *FASEB J* 2000; 14:A791. Oral Presentation.
56. Howell W, **Earthman C**, Reid P, Greaves K, Delany J, Houtkooper L. Doubly labeled water validation of the compendium of physical activities in lean and obese college women. *Med Sci Sports Exerc* 1999; 31(5 suppl):S142. Refereed Abstract and Poster Presentation.
57. **Earthman C**, Reid P, Greaves K, Houtkooper L, Howell W, Going S, Lohman T, Delany J. Validation of bioimpedance estimates of total body water in lean and obese women. *FASEB J* 1998;12:A228. Poster Presentation.
58. Verdery R, Reichlin S, Howell W, **Earthman C**, Van Hook B. Relationship of body-mass index in healthy older people to serum leptin levels. Conference on Nutrient & Energy Metabolism in the Elderly. Basic Mechanisms to Integrative Physiology, Burlington, VT, September 15-16, 1997. Poster Presentation.
59. Verdery R, **Earthman C**, Van Hook B, Howell W. Eating dependency predicts dehydration but not hypocholesterolemia in long-term care. *Am Geriatr Soc*, 1997. Poster Presentation.
60. **Earthman C**, Reid P, Greaves K, Houtkooper L, Delany J, Howell W. Doubly labeled water validation of self-reported physical activity and dietary energy intake in lean and obese college women. *Am J Clin Nutr* 1997; 66:211. Refereed Abstract and Poster Presentation.
61. **Earthman C**, Robbins A, Winter L, Chapman K. Comparative case analysis relative to energy expenditure for bronchitic vs. emphysemic pulmonary patients. *FASEB J* 1995;9:A462. Poster Presentation.

Invited Presentations

- 2021 Oral Presentation (9/29/21): “Assessment of Malnutrition in the Clinical Setting: Challenges and Considerations”, University of Waterloo (Canada), Physiology and Nutrition Graduate Seminar, Department of Kinesiology & Health Sciences.
- 2021 Oral Presentation (9/10/21): “Novel Bioimpedance Applications for Nutrition Assessment in Clinical Settings”, University of Delaware, BHAN 860 Research Seminar (Graduate Program in Nutritional Sciences).
- 2021 Oral Presentation (3/20/21): “The Quest for Clinically Relevant Nutrition Biomarkers: Opportunities through Body Composition Assessment Tools”, 2021 ASPEN Nutrition Science and Practice Conference, Pre-Conference Research Workshop – *Novel Nutrition Status Markers*.
- 2020 Oral Presentation (11/13/20): “Lean Tissue in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”, Michigan Society for Parenteral and Enteral Nutrition Annual Meeting.
- 2019 Oral Presentation (11/7/19): “Lean Tissue in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”, Rutgers University, NUTR 7210 Human Metabolism and Body Composition (Graduate Program in Clinical Nutrition).
- 2019 Oral Presentation (10/4/19): “Lean Tissue and Protein in Health and Disease: Key Targets and Assessment Strategies”, University of Delaware, BHAN 860 Research Seminar (Graduate Program in Nutritional Sciences).
- 2019 Oral Presentation (5/7/19): “Assessment of Malnutrition in the Clinical Setting: Challenges and Considerations”. University of Auckland, New Zealand, Dietetic 703 Graduate Program in Nutrition, Fulbright Specialist Project.
- 2019 Oral Presentation (5/6/19): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Auckland, New Zealand, Graduate Program in Nutrition Research Seminar Series, 5/6/19.
- 2019 Oral Presentation (5/6/19): “Lower GI Disorders”. Massey University, Albany, New Zealand, Graduate Program in Dietetics, Fulbright Specialist Project.
- 2019 Oral Presentation (5/6/19): “Physical Examination for Micronutrient Status Assessment”. Massey University, Albany, New Zealand, Graduate Program in Dietetics, Fulbright Specialist Project.
- 2019 Oral Presentation (5/2/19): “Bariatric Surgery: Nutritional Considerations”. University of Auckland, New Zealand, MedSci 711 Graduate Program in Medical Sciences, Fulbright Specialist Project.
- 2019 Oral Presentation (5/2/19): “An Introduction to Lung Disorders: COPD”. University of Auckland, New Zealand, MedSci 711 Graduate Program in Medical Sciences, Fulbright Specialist Project.
- 2019 Oral Presentation (5/2/19): “Introduction to Heart Failure”. University of Auckland, New Zealand, MedSci 711 Graduate Program in Medical Sciences, Fulbright Specialist Project.

- 2019 Oral Presentation (4/18/19): “Critical Illness and Injury I: Metabolic Stress Response”. University of Otago, Dunedin, New Zealand, Graduate Program in Dietetics, Fulbright Specialist Project.
- 2019 Oral Presentation (4/18/19): “Assessment of Acid-Base Balance”. University of Otago, Dunedin, New Zealand, Graduate Program in Dietetics, Fulbright Specialist Project.
- 2019 Oral Presentation (4/18/19): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Otago, Dunedin, New Zealand, Department of Human Nutrition Research Seminar Series, Fulbright Specialist Project.
- 2019 Oral Presentation (4/15/19): “Nutritional Assessment and Anthropometry: Workshop”. Co-Presented with Dr. Clare Wall, Academic Director, Medical Sciences. New Zealand Society of Gastroenterology and the University of Auckland Nutrition Course, New Zealand, University of Auckland Medical School, Fulbright Specialist Project.
- 2019 Oral Presentation (4/15/19): “Body Composition Tools in Clinical Settings: Applications for Assessment and Monitoring”. New Zealand Society of Gastroenterology and the University of Auckland Nutrition Course, New Zealand, University of Auckland Medical School, Fulbright Specialist Project.
- 2019 Oral Presentation (4/10/19): “An Introduction to Chronic Kidney Disease: Pathophysiology and Nutritional Considerations”. University of Auckland, New Zealand, MedSci 711 Graduate Program in Medical Sciences, Fulbright Specialist Project.
- 2019 Oral Presentation (2/27/19): “Diabetes Mellitus: Acute and Chronic Complications”, FSCN 4665 Medical Nutrition Therapy I, University of Minnesota, Didactic Program in Dietetics.
- 2018 Oral Presentation (11/8/18): “Sustainable Eating 101: A Clinician’s Guide to Consumer Concerns about Fruits, Vegetables, and Meat”, Minnesota Society for Parenteral and Enteral Nutrition Fall Conference, Roseville, MN.
- 2018 Oral Presentation (6/27/18): “Body Composition Tools in Clinical Settings: Applications for Assessment and Monitoring”. 11th International Symposium on In Vivo Body Composition Studies; June 25-27, 2018, Columbia University, New York, NY.
- 2018 Oral Presentation (5/11/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. Mater Hospital, Brisbane, Australia.
- 2018 Oral Presentation (5/9/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Adelaide, Centre for Research Excellence in Nutritional Physiology, Adelaide, Australia.

- 2018 Oral Presentation (5/8/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. Flinders University, Adelaide, Australia.
- 2018 Oral Presentation (5/1/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Melbourne, Department of Physiotherapy, Melbourne, Australia.
- 2018 Oral Presentation (5/1/18): “Bioimpedance Techniques: Opportunities and Challenges in the Hospital Setting”. The Alfred Hospital, AlfredHealth Nutrition Department, Melbourne, Australia.
- 2018 Oral Presentation (4/26/18): “Bariatric Surgery: Nutritional Considerations”. MedSci 711 Clinical Nutrition (postgraduate course), University of Auckland, Auckland, New Zealand.
- 2018 Oral Presentation (4/24/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. Dietitians New Zealand, Auckland Branch Professional Development, Auckland City Hospital, Auckland, New Zealand.
- 2018 Oral Presentation (4/23/18): “Lean Tissue Assessment at the Bedside: Clinical Implications and Assessment Opportunities and Challenges”. MedSci 711 Clinical Nutrition (postgraduate course), University of Auckland, Auckland, New Zealand.
- 2018 Oral Presentation (4/19/18): “An Introduction to Chronic Kidney Disease: Pathophysiology and Nutritional Considerations”. MedSci 711 Clinical Nutrition (postgraduate course), University of Auckland, Auckland, New Zealand.
- 2018 Oral Presentation (4/18/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. Auckland Nutrition Research Network Meeting, University of Auckland, Auckland, New Zealand.
- 2018 Oral Presentation (3/28/18): “Body Composition and Energy Expenditure Assessment Technologies in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Otago, Dunedin Hospital, Dunedin, New Zealand.
- 2018 Oral Presentation (1/23/18): “Bioimpedance 101: Theory and Practice”. ASPEN Nutrition Science and Practice Conference; Jan 22-25, 2018, Las Vegas, NV.
- 2018 Oral Presentation (1/18/18): “Body Composition in Acute and Chronic Disease: Clinical Implications and Assessment Opportunities and Challenges”. University of Delaware, Department of Behavioral Health and Nutrition, Newark, DE.
- 2017 Oral Presentation (9/22/17): “Body Composition Assessment in Clinical Practice: Opportunities and Challenges”. Montgomery District Dietetic Association Workshop: Body Composition Assessment in Clinical and Sports Dietetics Practice. Montgomery, AL.
- 2016 Oral Presentation (10/29/16): “Through Thick and Thin – Obesity and Aging: Relevance and Measurement Challenges”. Western Canada Nutrition Day –

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- Seniors First: Nutrition & Aging, Robbins Learning Centre, Royal Alexandra Hospital, Edmonton, AB, Canada.
- 2016 Oral Presentation (5/5/16) *by my PhD student Adam Kuchnia*: “Lean Tissue and Muscle Mass: Nutritional Relevance and Measurement Challenges”, The Medical Electronic Device Realization Center (MEDRC) medical device workshop, May 5-6, 2016, Massachusetts Institute of Technology, Cambridge, MA
- 2016 Oral Presentation (1/17/16): “Opportunities and Limitations of Body Composition Technologies: An Introduction”. Clinical Nutrition Week 2016, Austin, TX.
- 2015 Oral Presentation (11/6/15): “Lean Tissue Loss in Acute and Chronic Care Settings: Clinical Implications and Bedside Assessment Strategies”, Brigham Young University, Provo, UT.
- 2015 Oral Presentation (9/29/15): “Trials and Tribulations in Validating Bedside Methods for Lean Tissue Assessment”, Keynote Address, Muscle Matters Conference, University of Waterloo, Waterloo, ON, Canada.
- 2015 Oral Presentation (9/29/15): “Bioimpedance Techniques: Opportunities and Challenges in the ICU”, Muscle Matters Conference, University of Waterloo, Waterloo, Canada.
- 2015 Oral Presentation (9/29/16), *by my PhD student Adam Kuchnia*: “Body Composition Analysis in the ICU Setting, Validum Results: CT vs BIA”, Muscle Matters, September 29, 2015, University of Waterloo, Waterloo, ON, Canada
- 2015 Oral Presentation (2/16/15): “Lean Tissue Loss in Acute and Chronic Care Settings: Clinical Implications and Bedside Assessment”, Dudrick Symposium, Clinical Nutrition Week, Long Beach, CA.
- 2014 Oral Presentation (10/19/14): “Using EAL Guidelines to Measure Resting Metabolic Rate with Indirect Calorimetry”, FNCE, Atlanta, GA, October 18-22, 2014.
- 2014 Oral Presentation (6/12/14): “Evaluation of New Advanced Bioimpedance Spectroscopy Models for Measuring Body Composition in Healthy Individuals and Those Undergoing Massive Weight Loss”, The 10th International Symposium on *In Vivo* Body Composition Studies, Cascais, Portugal, June 11-14, 2014.
- 2014 Oral Presentation (1/21/14): “Vitamin D in Patients Undergoing Bariatric Surgery: Facing the Unknown”, Clinical Nutrition Week, Savannah, GA.
- 2014 Oral Presentation (1/20/14): “Clinical Measurement of Lean Tissue in Individuals with Cancer: Where Are We Now, and Where Can We Go From Here?”, Clinical Nutrition Week, Savannah, GA.
- 2014 Oral Presentation (1/19/14): “Bioelectrical Impedance Techniques: New Applications and Potential Contributions to Bed-Side Nutrition Assessment”, Clinical Nutrition Week, Savannah, GA.
- 2013 Oral Presentation (11/9/13): “The Assessment of Malnutrition: Can Bed-Side Body Composition Measurement Contribute?”, Virginia ASPEN Annual Meeting, Fairfax, VA.

- 2013 Oral Presentation (10/18/13): “Bed-Side Body Composition Assessment: Implications and Considerations”, Center for Translational Research in Aging & Longevity, Department of Health & Kinesiology, Texas A&M University, College Station, TX.
- 2013 Oral Presentation (6/6/13): “Vitamin D Deficiency After Bariatric Surgery: Implications and Considerations”, 9th Annual Bariatric Education Days, The University of Minnesota Medical School, Bloomington, MN.
- 2013 Oral Presentation (4/27/13): “Vitamin D Status Before and After Gastric Bypass Surgery: Implications and Considerations”, Metabolic Surgery Session, XXVII Annual Meeting of the Colombian Association of Clinical Nutrition, Bogota, Colombia.
- 2013 Oral Presentation (4/26/13): “Nutritional Concerns after Bariatric Surgery”, Bariatric Surgery Session, XXVII Annual Meeting of the Colombian Association of Clinical Nutrition, Bogota, Colombia.
- 2013 Oral Presentation (4/25/13): “The Central Role of the Dietitian in Nutritional Assessment”, Plenary Session, XXVII Annual Meeting of the Colombian Association of Clinical Nutrition, Bogota, Colombia.
- 2013 Oral Presentation (2/21/13): “Vitamin D Status Following Gastric Bypass Surgery”, City-Wide Endocrine Conference, Department of Medicine – Endocrine Division, University of Minnesota-Twin Cities.
- 2013 Oral Presentation (1/15/13): “Sustainable Eating”, Lake Country School Fundraising Event, Minneapolis, MN
- 2012 Oral Presentation (10/11/12): “Bariatric Surgery: Nutritional Implications and Research Considerations”, University of Pennsylvania School of Nursing, Obesity Seminar (Host: Dr. Charlene Compher), Philadelphia, PA.
- 2012 Oral Presentation (10/10/12): “Methodologic Considerations for Assessing Body Composition Changes After Gastric Bypass Surgery”, Children’s Hospital of Pennsylvania (CHOP) Pediatric Research Group, University of Pennsylvania, Philadelphia, PA.
- 2012 Oral Presentation (9/7/12): “A Beginner’s Guide to Conscious Eating: Fruits, Vegetables, and Meat”, Target University of Minnesota Alumni Health and Wellness Group, Minneapolis, Minnesota.
- 2012 Oral Presentation (6/18/12): “Body Composition and Vitamin D Status Following Gastric Bypass Surgery”, Section for Clinical Nutrition, Sahlgrenska, University of Gothenburg, Gothenburg, Sweden.
- 2012 Oral Presentation (6/14/12): “Body Composition in Nutrition Assessment: A Powerful Tool for the Dietitian”, Workshop for Dietitians, Hanze University of Applied Sciences, Groningen, Netherlands.
- 2012 Oral Presentation (6/13/12): “Parenteral Nutrition Support: Considerations and Applications for the Clinical Dietitian”, Department of Nutrition and Dietetics, Hanze University of Applied Sciences, Groningen, Netherlands.

- 2012 Oral Presentation (6/7/12): “Body Composition and Vitamin D Status Following Gastric Bypass Surgery”, Institute of Human Nutrition, University of Southampton, Southampton, England.
- 2012 Oral Presentation (2/22/12): “Body Composition in Nutrition Assessment: Role of the Dietitian”, Peter JM Weijs International Symposium on Body Composition, Hogeschool von Amsterdam, Amsterdam, Netherlands.
- 2012 Oral Presentation (1/22/12): “Diminished Vitamin D Status in Obesity: Implications and Considerations in Gastric Bypass Surgery Patients”, Focused Learning Session, Clinical Nutrition Week, Orlando, Florida.
- 2012 Oral Presentation (1/12/12): “Diminished Vitamin D Status in Obesity: Implications and Considerations in Gastric Bypass Surgery Patients”, American Society for Parenteral and Enteral Nutrition, Webinar.
- 2011 Oral Presentation (10/30/11): “Dilution Methods for Assessment of Body Cell Mass”. Scientific Advisory Meeting, “Advancement in Measuring and Activating Protein Anabolism”, Baxter Healthcare Corporation, Zurich, Switzerland.
- 2011 Oral Presentation (6/9/11): “Body Composition Assessment in Gastric Bypass Surgery Patients: Clinical and Research Considerations”. Research Seminar, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands.
- 2011 Oral Presentation (5/25/11): “Diminished Vitamin D Status In Obesity: Implications and Considerations in Gastric Bypass Surgery Patients”. Institute of Toxicology and Nutrition, School of Medicine, Zhejiang University, Hangzhou, China.
- 2011 Oral Presentation (5/23/11): “Comparison of Bioimpedance Techniques with Multiple Dilution for Assessment of Fat Free Mass and Water Compartments Following Gastric Bypass Surgery”. The 9th International Symposium on *In Vivo* Body Composition Studies, Hangzhou, China, May 21-24, 2011.
- 2011 Oral Presentation (5/13/11): “Body Composition Assessment in the Clinic: Considerations and Applications”. Department of Oncology, University of Groningen Medical Center, Groningen, The Netherlands.
- 2011 Oral Presentation (5/13/11): “Bioimpedance Techniques for Assessment in the Clinic: Considerations and Applications”. Department of Nutrition and Dietetics, Hanze University of Applied Sciences, Groningen, The Netherlands.
- 2011 Key Note Presentation (5/10/11): “Bioimpedance in the Clinic: State of the Art”. Netherlands Nutrition Support Team Society (Nederlands Voedingsteam Overlag) Semi-Annual Meeting, Amsterdam Medical Center, Amsterdam, The Netherlands
- 2011 Key Note Presentation (3/18/11): “Body Composition Assessment in Clinical Studies: Considerations and Applications”. NESPEN (Netherlands Society for Parenteral and Enteral Nutrition) Research Symposium, Veldhoven, Netherlands.
- 2011 Oral Presentation (2/24/11): “Vitamin D Inadequacy in Obesity: Before and After Gastric Bypass Surgery”. University of Rome – Tor Vergata, Department of Medicine and Surgery, Rome, Italy.

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- 2011 Oral Presentation (2/8/11): “Vitamin D: Emerging Roles in Health and Disease”. Joint Meeting of Dietitians from VU Medical Center and Amsterdam Medical Center, Department of Nutrition and Dietetics, VU Medical Center, Amsterdam, Netherlands.
- 2011 Oral Presentation (1/29/11): “Bioimpedance Spectroscopy and Multifrequency Bioimpedance Approaches for Fluid Compartment Assessment: Theory and Clinical Applications”. Body Composition Research Workshop, Clinical Nutrition Week, Vancouver, Canada.
- 2010 Keynote Presentation (11/18/10): “Vitamin D: Emerging Roles in Health and Disease”. Netherlands Nutrition Support Team Society (Nederlands Voedingsteam Overlag) Semi-Annual Meeting, Utrecht, Netherlands.
- 2010 Oral Presentation (11/10/10): “Multifrequency Bioelectrical Impedance Analysis and Bioimpedance Spectroscopy: Theory and Clinical Applications”, Bioimpedance: From Theory to Practice Symposium (Bio-impedantie: van theorie naar praktijk), Hogeschool van Amsterdam, Amsterdam, Netherlands.
- 2010 Oral Presentation (10/8/10): “Human Body Composition: Theory and Applications”. 2-hour lecture for ‘Nutrition in Health and Disease’, Graduate Program in Nutrition, Vrije Universiteit (VU), Amsterdam, Netherlands.
- 2010 Oral Presentation (3/19/10): “Vitamin D: Emerging Roles in Health and Disease”, Southern Central District Dietetic Association Meeting, Mankato, MN
- 2010 Oral Presentation (2/19/10): “Clinical and Nutritional Implications of Gastric Bypass Surgery”, Department of Clinical Sciences, University of Kentucky, Lexington, KY
- 2010 Oral Presentation (2/10/10): “Changes in Gastrointestinal Hormones and Leptin after Roux-en Y Gastric Bypass Surgery”, (Lauren Beckman, Doctoral Student Presented twice, for the Harry M. Vars Award competition), Clinical Nutrition Week 2010, Las Vegas, NV
- 2009 Oral Presentation (11/10/09): “Vitamin D: Emerging Roles in Health and Disease”, Twin Cities District Dietetic Association Fall Meeting, St. Paul, MN
- 2009 Keynote Presentation (10/18/09): “Changes in Gastrointestinal Hormones After the Roux-en-Y Gastric Bypass Procedure: A Review”, L Beckman (C **Earthman**’, Journal of the American Dietetic Association Board of Editors annual meeting at FNCE, Denver, CO
- 2009 Oral Presentation (10/1/09): “Bioimpedance Spectroscopy for Assessment of Fluid Distribution and Body Cell Mass in the Clinical Setting”, Department of Food Science and Human Nutrition, University of Florida, Graduate Seminar, Gainesville, FL
- 2009 2 Hour Workshop (10/1/09): “Bioimpedance Spectroscopy: A Field Technique for Assessing Body Cell Mass and Fluid Distribution”, Department of Food Science and Human Nutrition, University of Florida, Dietetics Graduate Class, Gainesville, FL

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- 2009 Oral Presentation (8/5/09): “A Beginner’s Guide to Conscious Eating”, Minnesota School Nutrition Association Annual Meeting, Duluth, MN
- 2009 Oral Presentation (3/31/09): “A Beginner’s Guide to Conscious Eating”, Normandale Community College Dietetic Technician Program Advisor Board Meeting, Eden Prairie, MN
- 2009 Oral Presentation (2/2/09): “Indirect Calorimetry: How it Works, How to Use it”, Clinical Nutrition Week 2009, New Orleans, LA.
- 2008 Oral Presentation (11/12/08): “Evidence Analysis Process of the American Dietetic Association: Applications and Implications”, Hormel Foods Corporation, Austin, MN.
- 2008 Oral Presentation (11/11/08): “Organic and Sustainable: A Beginner’s Guide to Conscious Eating”, Twin Cities District Dietetic Association Meeting, Minnetonka, MN.
- 2008 Poster Presentation (10/6/08): “An Evaluation of the Factors Related to Extracellular Fluid Expansion in Extremely Obese Women and the Role of the Renin-Angiotensin System”, Presented at the annual meeting of The Obesity Society, October 3-7, 2008.
- 2008 Oral Presentation (7/12/08): “Early Postoperative Fluid Changes Measured by Intravenous Deuterium and Bromide Dilution in Gastric Bypass Surgery Patients”, Presented at the 8th International Symposium on In-Vivo Body Composition Studies, Columbia University, July 9-12, 2008.
- 2008 Panel Speaker (3/25/08): “Careers in Nutrition and Dietetics”, CFANS 4201 Strategic Career Planning, McNeal Hall, University of Minnesota, St. Paul, MN.
- 2008 Oral Presentation (3/17/08): “A Beginner’s Guide to Conscious Eating”, Fairview Hospital, Minneapolis, MN
- 2007 Oral Presentation (7/20/07): “Acute Effects of Whey-Derived Peptides on the Renin-Angiotensin System in Extremely Obese Women”, University of Minnesota Dairy Center, Midwest Dairy Association Annual Meeting, St. Paul, MN.
- 2007 Oral Presentation (4/19/07): “Methodologic Considerations for Monitoring Body Composition Changes after Gastric Bypass Surgery”, City-Wide Endocrine Conference, Department of Medicine – Endocrine Division, University of Minnesota-Twin Cities.
- 2006 Guest Lecture (9/29/06): “Nutrition Careers”, FScN 3612, University of Minnesota, St. Paul, MN
- 2005 Guest Lecture (9/19/05): “Nutrition Careers”, FScN 3612, University of Minnesota, St. Paul, MN
- 2006 Oral Presentation (7/13/06): “Whey Protein Supplementation for Nutritional Management After Gastric Bypass Surgery: Progress Report”, University of Minnesota Dairy Center, Midwest Dairy Association Annual Meeting, St. Paul, MN.
- 2005 Oral Presentation (7/05): “Whey Protein Supplementation for Nutritional

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- Management After Gastric Bypass Surgery”, University of Minnesota Dairy Center, Midwest Dairy Association Annual Meeting, St. Paul, MN.
- 2003 Oral Presentation: “Body Cell Mass: Assessment and Repletion in HIV Infection”: AIDS Clinical Trials Unit Weekly Meeting, University of Minnesota, June 30, 2003.
- 2001 Guest Lecture (12/14/01): “Body Cell Mass: Assessment and Implications for Clinical Nutrition Practice”, Dietetic Internship, Virginia Tech, Blacksburg, VA.
- 2001 Guest Lecture (12/03/01): “Nutrition Support: Enteral and Parenteral Nutrition”, Therapeutic Nutrition (HNFE 4124), Department of Human Nutrition, Foods and Exercise (HNFE), Virginia Tech, Blacksburg, VA.
- 2001 Guest Lecture (1/01): “An Introduction to Body Cell Mass: Assessment and Clinical Implications”, Methods in Human Nutritional Assessment (HNFE 3034), Department of HNFE, Virginia Tech, Blacksburg, VA.
- 2000 Oral Presentation (10/26/00): "Aging-Associated Changes in Body Composition: Intervention Strategies and Assessment Methods". Blacksburg Home Economists in Home and Community, Blacksburg, Virginia.
- 2000 Oral Presentation (7/25/00): “Body Cell Mass: Assessment and Implications for Clinical Nutrition Practice”. HNFE Alumni Event, CHRE, Virginia Tech, Roanoke Convention Center, Roanoke, VA.
- 2000 Oral Presentation (7/13/00): “Age-Related Changes in Body Composition: What Can We Do About It?”. Senior Center, Blacksburg, VA.
- 1999 Guest Lecture (11/2/99): “Parenteral Nutrition”, Therapeutic Nutrition (HNFE 4124), Department of HNFE, Virginia Tech.
- 1999 Oral Presentation(10/8/99): “Body Cell Mass Change Following Anabolic Steroid Therapy in HIV Infection: A Comparative Bioimpedance Study”. Presented at the 5th International Symposium on in vivo Body Composition Studies, Brookhaven National Laboratories, October 7-9, 1999.
- 1999 Guest Activity (9/22/99): “The Use of Diabetic Exchanges for Meal Planning”, Foods and Nutrition (HNFE 1004), Department of HNFE, Virginia Tech.
- 1999 Oral Presentation (4/1/99): “Body Composition and Quality of Life Changes in HIV Infection”, Department of Health and Human Development, Montana State University, Bozeman, MT.
- 1999 Oral Presentation (3/19/99): “Body Composition and Quality of Life Changes in HIV Infection”, Department of Food and Nutrition, North Dakota State University, Fargo, ND.
- 1999 Guest Lecture (3/19/99): “Vitamin C, Folate, and Cobalamin”, Department of Food and Nutrition, North Dakota State University, Fargo, ND.
- 1997 Panel Discussion: “Dietitians in Research”
Advanced Clinical Dietetics Course, The University of Arizona
- 1997 Oral Presentation: “Issues in Enteral Formula Selection”
Tucson Area Society for Parenteral and Enteral Nutrition Annual Meeting
- 1996 Guest Lecture: “Enteral Nutrition - Management of Delivery and Complications”

- 1995 - 1998 St. Mary's Hospital Dietetic Internship, Tucson, Arizona
Course Lectures, The University of Arizona
"Acid-Base Issues and Management of Electrolytes in TPN"
"Pathophysiology of Atherosclerosis"
"Nutritional Assessment in Clinical Nutrition"
"Mechanical Ventilation and Nutritional Management of Pulmonary Disease"
"Nutritional Management of Peptic Ulcer Disease"
"Nutritional Management of Liver Disease"
"Anthropometric Assessment and Body Composition Methods"
"Enteral Nutrition: Delivery Systems, Monitoring, and Management"
"Designing Enteral Feeding Regimens"
"Designing Parenteral Feeding Regimens"
- 1993 - 1995 Course Lectures, University of Illinois
"Nutritional Management of Hepatic Disease"
"Enteral Nutrition: Monitoring, Complications, and Management"
"Parenteral Nutrition: Monitoring, Complications, and Management"
"Atherosclerosis: Pathophysiology and Recent Advances in Research"
- 1991 - 1993 Quarterly Seminar Presentations, Shadyside Hospital, Pittsburgh, Pennsylvania
"How to Avoid a Nutritional Wreck in the ICU", Intensive Care Unit Nurses
Training Program
"Wound Healing and Nutrition", Intensive Care Unit Nurses Training Program
"Enteral and Parenteral Nutrition in the ICU: Management of Delivery and
Complications", Medical Residents' Orientation to ICU Rotation

SERVICE ACTIVITIES

National Level Service - Association/Organizations:

Member, Research Committee, ASPEN, 2010 – present

Member, Research Agenda Subcommittee, ASPEN, 2017

Member, Malnutrition Committee, ASPEN, 2012 - 2016

Subject Matter Expert, Extended Standards Committee for ACEND, June 2015 – December 2016.

Chair, Research Section, ASPEN, 2013 – 2015

Principal Investigator, American Society for Parenteral and Enteral Nutrition (ASPEN) Research Workshop Grant, 2012 – 2016

Chair, Research Committee, Dietitians in Nutrition Support (DNS, Dietetic Practice Group, DPG of the Academy of Nutrition and Dietetics), 2005 – 2015.

Organizer and Moderator, Dudrick Symposium "Lean Tissue and Protein in Health and Disease: Targets and Assessment Strategies", February 16, 2015, Clinical Nutrition Week, February 16, 2015, Long Beach, CA.

Organizer and Moderator, "Getting Funded in Clinical Nutrition Research", session at Clinical Nutrition Week, February 16, 2015, Long Beach, CA.

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Expert Member, Energy Expenditure Update Evidence Analysis Workgroup, Academy of Nutrition and Dietetics Evidence Analysis Library, 2010 – 2014.
Moderator, Webinar, Chat With the Experts: Application and Practice of Malnutrition Characteristics in Adults, Sept 26, 2013
Editorial Board Member, Journal of Parenteral and Enteral Nutrition (JPEN), 2010 – 2012.
Member, Research Committee, Dietitians in Nutrition Support (DNS, Dietetic Practice Group, DPG of the Academy of Nutrition and Dietetics), 1999-2001.
Clinical Nutrition Week 2013, Phoenix, AZ:
Session Moderator, Scientific Research Session (Malnutrition/ Assessment/ Obesity/ Enteral)
Primary Reviewer, Harry M. Vars Paper Competition
Clinical Nutrition Week 2012, Orlando, FL:
Session Moderator, Scientific Research Session (Malnutrition/Nutrition Assessment),
Poster Professor, Scientific Research Session (Malnutrition/Nutrition Assessment
Primary Reviewer, Harry M. Vars Paper Competition
Clinical Nutrition Week 2011, Vancouver, Canada:
Session Moderator, Scientific Research Session (Assessment, Body Composition, Enteral Nutrition),
Poster Professor, Scientific Research Session (Bariatrics/Body Composition)
Primary Reviewer and Discussant, Harry M. Vars Paper Competition
Clinical Nutrition Week 2008, 2009, 2010, 2011
Research Mentor, “Meet the Research Mentor” Event, ASPEN Rhoads Research Foundation
Member, Working Group for the NIH Workshop on the Measurement of Body Composition Using a Hologic 4500A. 2003 – 2005.
Bylaws Chair, Virginia Dietetic Association Board. 2002.

National Level Service - Other:

Reviewer for the *American Society for Parenteral and Enteral Nutrition (ASPEN) Adult Nutrition Support Core Curriculum*. 2012.
Reviewer for *Biochemical, Physiological, Molecular Aspects of Human Nutrition, 2nd Edition (Stipanuk, MH)*. 2008.
Reviewer for *Modern Nutrition in Health and Disease, 10th Edition (Shils, Shike, Ross, Caballero, and Cousins)*. 2007.
Reviewer for the *ASPEN Adult Nutrition Support Core Curriculum: An Interdisciplinary Approach*. 2005.

International Service

External Examiner of Doctoral Theses, University of Auckland, Faculty of Medical and Health Sciences (2014 and 2017, 2018, 2019, 2020, 2021)
Mentor, Body Composition Components of Doctoral Thesis Projects – for two doctoral students at LaTrobe University, Melbourne, Australia (2016 to present)

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Ad Hoc Reviewer for:

Journal of the Academy of Nutrition and Dietetics
Journal of Parenteral and Enteral Nutrition
Journal of Nutritional Biochemistry
Journal of the American College of Nutrition
Clinical Nutrition
Support Line, Academy of Nutrition and Dietetics
Journal of Sports Sciences
Biomedical Central Nutrition
Journal of Cachexia, Sarcopenia and Muscle

Topics in Clinical Nutrition
Annals of Nutrition and Metabolism
Nutrition in Clinical Practice
British Journal of Nutrition
Obesity
International Journal of Obesity
Physiological Measurement
Spinal Cord