

Shannon L. David

Curriculum Vitae

Office Address:

North Dakota State University
Health, Nutrition, and Exercise Science
Athletic Training Program
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I. EDUCATION

A. Educational Background

- 2013 *Ohio University, Athens, Ohio*
PhD: Educational Research and Evaluation
- 2010 *Ohio University, Athens, Ohio*
MS: Athletic Training
- 2008 *Heidelberg College, Tiffin, Ohio*
BS: Athletic Training

B. Certifications/Licenses

Board of Certification (#050802199)
Licensed Athletic Trainer in the State of North Dakota (#495-13)
Performance Enhancement Specialist (#1351154)
Certified in First-Aid by American Red Cross
CPR/AED Professional Rescuer by American Red Cross
FA/CPR/AED Professional Rescuer Instructor by American Red Cross (#15248289)
Preceptor at North Dakota State University Athletic Training Program
Registered Orthopedic Technician (#031815053)

C. Professional Society Memberships

National Athletic Trainers' Associations (NATA)
Mid-American Athletic Trainers' Association (MAATA)
North Dakota Athletic Trainers Association (NDATA)
Mid-Western Educational Research Association (MWERA)
American College of Sports Medicine (ACSM)
American Educational Research Association (AERA)

D. Awards and Honors

2019	Mid America Athletic Trainers Association Educator of the Year Nominee
2018	HDE Exceptional Contributions to Learning Award
2017	HDE College Collaboration Award
2017	HDE Emerging Researcher Award
2017	Nominated Outstanding Faculty Advisor Award
2013	Ohio University Research Expo – 1 st place
2012	Ohio University Patton College of Education Travel Grant (\$500.00)
2011	Ohio University Patton College of Education Travel Grant (\$500.00)
2011	Ohio University Graduate Student Senate Travel Grant (\$500.00)
2008	Heidelberg College – Cum Laude

E. Statistical and Research Software Proficiency

SPSS – Statistical Package
 R – Statistical Package
 Atlas.ti – Qualitative Coding Package
 DoView – Logic Modeling Software
 Winsteps – Statistical Package
 TAP – Item Analysis Software
 IteMan – Item Analysis Software

II. EMPLOYMENT AND WORK EXPERIENCE

A. Employment

2013 – Present Athletic Training Program, North Dakota State University

Fargo, North Dakota

Research:

- Primary research interests include the patient-clinician relationship and quantification of outcomes.
- Mentor/Advise of Master student research

Instructor:

- Traditional Courses
 - HNES790: Introduction to SPSS
 - HNES765: Orthopedic Appliances
 - HNES790: Teaching Seminar
 - HNES770: Athletic Training Evidence Based Practice & Research
 - HNES388: Concepts of Athletic Training

HNES776: General Medical Conditions

- Online/Blended Courses

HNES710: Literature and Research

HNES790: Publishing Seminar

- 2017 – Present Coordinator of Clinical Education, North Dakota State University, Fargo, North Dakota
- 2015 – 2016 Interim Clinical Education Coordinator, North Dakota State University, Fargo, North Dakota
- Responsibilities include:
 - Evaluate and supervise students
 - Participate in advising students for curriculum advancement and graduation requirements
 - Monitor, develop and maintain clinical education sites
 - Facilitate development of preceptors as educators
 - Coordinate clinical experiences and teach competencies associated with didactic courses
 - Communicate on a regular basis with the Program Director about all aspects of clinical education
 - Collaborate with personnel at multiple entities to ensure a positive relationship is maintained between the program, university and community partnerships
 - Contribute and direct research within the department.
- 2013 – Present Sanford Health System, Fargo, North Dakota
- PRN Athletic Trainer – Responsibilities include coverage of youth and high school hockey, gymnastics, and basketball.
- 2010 – 2015 Varsity Spirit Corporation, Memphis, Tennessee
- Camp Administration – Oversee each camp daily activities, Liaison between college and camp, and athletic training responsibilities.
- 2010 – 2013 Division of Athletic Training, Ohio University, Athens, Ohio
- Research Assistant:
- Under direction of Dr. Brian Ragan. Primary responsibilities include mentor graduate student research and research development.
 - Site Manager: Datalys Center USA Football Youth Football Safety Study

- The focus of this study is to collect and establish injury rates in youth football. In addition, comparisons between the age specific and age-weight matrix specific programs. Ohio University has 3 community locations where data are collected. Responsibilities include recruitment of sites and administrative role.

Graduate Assistant:

- Primary responsibilities include administrative roles within the graduate and undergraduate program and instruction of courses.

Lead Instructor:

- Traditional Courses
 - AT3100: Orthopedic Appliances
 - AT3100a: Orthopedic Appliances Lab
 - AT5100: Orthopedic Appliances
 - AT5100a: Orthopedic Appliances Lab
 - AT1150: Emergency Care
 - AT608: Care and Prevention of Activity Related Injuries
- Online Courses
 - AT608: Care and Prevention of Activity Related Injuries
 - AT144: Concepts of Athletic Injuries
- Teaching Assistant
 - AT315: Therapeutic Modalities
 - AT672: Research Methods II
 - AT225: Lower Extremity Evaluation
 - AT180B: Practical Applications of Athletic Training

2013 – 2013	Intercollegiate Athletics Ohio University, Athens, Ohio Per Diem Athletic Trainer – Primary responsibility Intercollegiate Athletics Division I football coverage. Additional duties included administrative responsibilities and athletic training room coverage.
2010 – 2013	Club Sports Ohio University, Athens, Ohio Athletic Trainer – Primary responsibility Division II Club Ice Hockey and Athens Youth Hockey game coverage
2009 – 2010	Intercollegiate Athletics Ohio University, Athens, Ohio

- Graduate Assistant Athletic Trainer – Primary responsibility Intercollegiate Athletics Division I Field Hockey coverage. Additional responsibilities included assisting with cheerleading, baseball, and men’s basketball
- 2008 – 2009 Carolina Medical Center Sports Medicine, Charlotte, North Carolina
Special Events Athletic Trainer – Per Diem athletic training coverage of camps and high school soccer and lacrosse
- 2008 – 2009 University of North Carolina at Charlotte, Charlotte, North Carolina
Athletic Trainer – Primary responsibility included coverage of Division I softball
- 2007-2008 Heidelberg College, Tiffin, Ohio
Teaching Assistant – Responsibilities included prep for labs, proctoring of exams, and grading.
BIO363: Human Anatomy and Physiology
BIO110: Zoology
BIO209: Botany

B. Workshops and Training

- 2019 Sanford Health: Sports Medicine Conference. Fargo, North Dakota.
- 2019 Community of Respect Training. Fargo, North Dakota
- 2019 Sanford Health: Heart & Vascular Symposium. Fargo North Dakota
- 2018 Gateway Pedagogy Training. Fargo, North Dakota
- 2018 National Athletic Trainers Association Annual Symposium. Las Vegas NV
- 2017 Survey Ninja: How to construct quality surveys. Fargo, North Dakota
- 2016 Women’s Connect: Personal Branding to Advance your Career. Fargo, North Dakota.
- 2016 Motivational Interviewing Training: Level 1 & 2. Fargo, North Dakota.
- 2015 35 Under 35 Women’s Leadership. Fargo, North Dakota.
- 2015 Sanford Health: Diabetes Symposium. Fargo, North Dakota

- 2015 North Dakota State University: Special Topics Hip Pathologies: Dr. Noonan. Fargo, North Dakota.
- 2015 FastTrack Leadership Workshop. Fargo, North Dakota
- 2015 Sanford Health: Trauma Tactics 2015. Fargo, North Dakota
- 2014 North Dakota State University: Dental and Eye Management with Dr. Chad Bergen and Dr. Mason Wilner. Fargo, North Dakota
- 2014 North Dakota State University: Shoulder Injuries and Management with Dr. Piatt. Fargo, North Dakota
- 2014 North Dakota State University: Kinesotape with Brenda Potter. Fargo, North Dakota.
- 2012 Cleveland Clinic Sports Health Symposium: The Spine. Beachwood, Ohio.
- 2011 Introduction to the Physician Extender: Casting Workshop – National Athletic Trainers Association Conference Philadelphia PA.

III. RESEARCH: PUBLICATIONS

A. Manuscripts (Peer Reviewed)

- Conant, B., German, N., **David SL**. (in press). The Use of Platelet-Rich Plasma for Conservative Treatment of Partial Ulnar Collateral Ligament Tears in Overhead Athletes: A Critically Appraised Topic. *Journal of Sport Rehabilitation*.
- Strand, B, Lyman, KL, **David, SL**, Landin K, Albrecht J, & Deutsch J. (in press). Coaches' Knowledge of Emergency Care. *International Council for Health, Physical Education, Recreation, Sport and Dance*.
- David, SL**, *McCuskey K*, Larson, M, & Hill B. (in press). The Relationship between athletic trainer personality and patient trust. *Athletic Training & Sports Health Care*. https://doi.org/10.3928_19425864-20181128-01
- Conant BJ*, & **David SL**. (2018). The effect of platelet-rich plasma on complete tears of the medial collateral ligament: A critically appraised topic. *Biomedical Science Instrument*. 54(1), 331-339.
- David, SL**, & Hitchcock, J. (2018). Understanding Patient Trust in the Athletic Setting Through Interviews. *Internet Journal of Allied Health Sciences and Practice*. 16(2), Article 4.
- Macaronas, E.*, **David, SL**, & German, N. (2018). A Case of Morel Lavallée Lesion of the Lower Leg: A Case Report. *International Journal of Athletic Therapy and Training*, 23(2), 66-68. DOI: 10.1123/ijatt.2017-0034
- Hitchcock, J., Onwuegbuzie, AJ., **David, SL.**, Ruddy, A. (2018). Causal Inference and Assessing Learning Outcomes: A Primer for International Evaluators. *International Journal of Multiple Research Approaches*, 10(1).

- Theige, M., & David, SL.,* (2017). Nonsurgical Treatment of Acetabular Labral Tears. *Journal of Sport Rehabilitation*, 2, 1-14. DOI: 10.1123/jsr.2016-0109.
- Strand B, **David SL**, Lyman K, & Albrecht JM. (2017). Coaching in the United States: High School Coaches' Knowledge and Confidence Regarding Athlete Safety and Injury Management. *International Sport Coaching Journal*, 4, 220-234.
- Brown CD, Potteiger K, Keeley K, Lundgren A, **David SL.** (2017). Entry Requirements for Undergraduate Athletic Training Programs. *Internet Journal of Allied Health Sciences and Practice*.15(1).
- Linker, JM. & **David, SL.** (2017). Prevention, recognition, and treatment of common recess injuries. *Strategies*. 30(4), 17-27.
- David, SL.,** & Larson, M. (2016). Athlete's Perception of Athletic Trainer Empathy: How Important Is It? *Journal of Sport Rehabilitation*, 19, 1-25. DOI: 10.1123/jsr.2016-0085
- Krueger, H., & David, SL.* (2016). The Effectiveness of Open Repair Versus Percutaneous Repair for an Acute Achilles Tendon Rupture: A Critically Appraised Topic. *Journal of Sport Rehabilitation*. 25(4), 404-410. DOI: <http://dx.doi.org/10.1123/jsr.2015-0024>
- David, SL.,** Gray, KA., Russell, J., & Starkey, C. (2016). The Ottawa Ankle Rules Over-Predict the Need for Radiographs when Applied in the Acute Setting. *Journal of Sports Rehabilitation*, 25, 48-51. DOI: <http://dx.doi.org/10.1123/jsr.2014-0253>
- David, SL.,** Hitchcock, J., Ragan, BG., Brooks, G., & Starkey, C. (2016). Mixing Interviews and Rasch Modeling: Demonstrating a Procedure used to develop an Instrument to Measure Trust. *Journal of Mixed Methods Research*, 12(1), 75-94. DOI: 10.1177/1558689815624586
- Brown, C., **David, SL.,** & Monaco, M. (2016). American Athletic Training Students' Perceptions of Electronic Textbooks and Computer use in the Classroom. *Internet Journal of Allied Health Sciences and Practice*, 14(1), Article 10.
- Markland, A D., Burgio, KL., Beasley, TM., **David, SL.,** Redden, DT., & Goode, PS., (2015). Psychometric Evaluation of an Online and Paper Accidental Bowel Leakage Questionnaire: The ICIQ-B Questionnaire. *Neurourology and Urodynamics*. PMID:26473313. DOI: 10.1002/nau.22905
- Fashl, H., & David, SL.* (2015). A Rare Case of Lemierre's Syndrome in a Male Division I Collegiate Football Player. *International Journal of Athletic Therapy and Training*, 20(5), 11-15. DOI: [org/10.1123/ijatt.2014-0057](http://dx.doi.org/10.1123/ijatt.2014-0057)
- Farnsworth, J., McElhiney, D., **David, SL.,** Sinha, G., & Ragan, BG. (2014). Objective functional assessment following a head injury using movement and activity in physical Space (MAPS) scores. *Journal of Athletic Training*, 49(3), 568-575. DOI: 10.4085/1062-6050-49.3.07

B. Manuscripts (Non Referred)

- David, SL.** (March 2014) Emergency Action Plans in Cheerleading. *Cheer Safety*. www.cheersaftey.org

C. Textbooks

Book Chapter

David S.L. (in press). Integration in the Mixed IRT Framework: Advanced Mixed Methods Applications in Athletic Training. In Hitchcock, J. & Onwuegbuzie, A (Eds), *Handbook for Advancing Integration in Mixed Methods Research*. London, UK: Routledge.

Starkey C., & **David S.L.** (2019). The Athletic Trainer. In J. Delee & D. Drez (Eds.), *Orthopaedic Sports Medicine: Principles and Practice*. Philadelphia, PA: Elsevier Inc.

Starkey C., & **David S.L.** (2014). The Athletic Trainer. In J. Delee & D. Drez (Eds.), *Orthopaedic Sports Medicine: Principles and Practice*. Philadelphia, PA: Elsevier Inc.

Instructors Manual

David, S.L. (2015). Instructor Manual for *Orthopedic and Athletic Injury Examination*. F.A. Davis. Philadelphia, PA.

D. Masters/Dissertation Title

David S. L. (2010). *Examination of the Validity of the Navicular Drop Test*. Unpublished Masters Manuscript. Ohio University, Athens, OH.

David S. L. (2013). *Development of the Patient-AT Trust Instrument*. Doctoral Dissertation. Ohio University, Athens, OH.

IV. RESEARCH: PROFESSIONAL PRESENTATIONS

A. Presentations with Published Abstracts

David, S. L., Brown, C., & Keeley, K. (March 2019). Validity and Reliability of Devices and Apps to Assess Outdoor Humidity. Presentation at Mid America Athletic Trainers' Association. Tulsa, OK.

Conant B.J., **David S.L.** (2018). The effect of platelet-rich plasma on complete tears of the medial collateral ligament. Poster presented at: 2018 Rocky Mountain Bioengineering Symposium; Fargo, ND.

Macaronas E., **David S. L.**, German N. (June, 2017). A Case of Morel Lavallée Lesion of the Lower Leg: A Case Report. Presented at National Athletic Trainers Association Conference, Huston, Texas.

Theige, M., **David, S. L.**, & German, N. (2017). Nonsurgical Treatment of Acetabular Labral Tears Presented at Northland American College of Sport Medicine conference, St. Paul, Minnesota.

Kotarsky C., Stone K., Streeter D., Keith J., Stastny S., **David S.L.**, Mitchell S, & Hackney K.J. (2017). Influence of protein intake at three different time periods on leg muscle strength and area. Presented at Northland American College of Sport Medicine conference, St. Paul, Minnesota.

- Stone K., Kotarsky C.J., Streeter D.M., Dicks N.D., **David S.L.**, Mitchell S., & Hackney K.J. (2017). Muscular Health with Aging: Differences in Quadriceps Size, Strength, and Quality between Sedentary and Active Adults. Presented at Northland American College of Sport Medicine conference, St. Paul, Minnesota.
- Schmidt B.*, & **David S. L.** (2017) Psychometric Evaluation of the MPQM and MPIQM: A Pilot Study. Presented at Performing Arts Medicine Association national conference, Snowmass, Colorado.
- David S. L.**, Hitchcock, J. & Onwuegbuzie, T. (2017, April). Developing Measures of Abstract Constructs Using a Mixed Methods Approach: Introducing an Analytic Framework. Paper Presented at American Education Research Association national conference, San Antonio, Texas.
- Chinburg, J., Tsuruike, M., & **David, S. L.** (2016, July). The perception of trust between athletic trainers and musical performance artists. Paper Presented at Performing Arts Medicine Association Meeting, New York, New York.
- David, S. L.** & Larson, M. (2016, June). Athlete's perception of Athletic Trainer Empathy: How important is it? Paper presented at National Athletic Trainers Association Annual Meeting, Baltimore, Maryland.
- Stone, K. A., Streeter, D. M., Kotarsky, C. J., Mitchell, S. L., **David, S. L.**, & Hackney, K. J. (2016, April). Intra-Reliability of ImageJ processing of MRI-derived cross-sectional area: Upper Leg. Paper presented at Northland American College of Sports Medicine Annual Meeting, St. Paul, Minnesota.
- Streeter, D. M., Stone, K. A., Kotarsky, C. J., Mitchell, S. L., **David, S. L.**, & Hackney, K. J. (2016, April). Intra-Reliability of ImageJ processing of MRI-derived cross-sectional area: Lower Leg. Paper presented at Northland American College of Sports Medicine Annual Meeting, St. Paul, Minnesota.
- David, S. L.** & Larson, M. (2016, March). Athlete's perception of Athletic Trainer Empathy: How important is it? Paper presented at Mid America Athletic Trainers Association Annual Meeting, St. Louis, Missouri.
- Brown, C., D., Potteiger, K., Keeley, K., Lundgren, A., & **David, S. L.** (2016, March). A comparison between undergraduate athletic training program entrance requirements and board of certification first-time pass rates. Paper presented at Southeast Athletic Trainers' Association Annual Conference in Atlanta, GA.
- Hillard, E., **David, S.L.**, & Hill. B. (2015, July). Comparison of exam completion Order to grade in college students enrolled in a nutrition science class. Paper presented at Society for Nutrition, Education and Behavior's 48th Annual Conference, Pittsburgh, Pennsylvania.
- Wambheim, S.* & **David, S. L.** (2015, June). The Rare Presence of an Accessory Soleus Muscle Strain in a Male Division I Collegiate Track Sprinter. Paper presented at National Athletic Trainers Association 66th Annual Meeting, St. Louis, Missouri. *Journal of Athletic Training Supplement*, 50(S-6): 286S.
- David, S. L.** & Beadley, M., & (2015, May). Comparing Classical Psychometrics and Rasch Modeling Results Using the ICIQ-B. Paper presented at AERA in Chicago, Illinois.
- Brown, C. & **David, S. L.** (2015, February). Athletic Training Students' Perceptions of Electronic Textbooks and Computer use in the Classroom. Paper presented at National Athletic Trainers Association Educator's Conference, Dallas, Texas.

- Fashl, H. & David, S. L.* (2014, June). The Forgotten Disease: A Rare Case of Lemierre's Syndrome in a Division I Collegiate Football Player. Paper presented at National Athletic Trainers Association 65th Annual Meeting, Indianapolis, Indiana. *Journal of Athletic Training Supplement*, 49,(S-3):52S.
- David, S. L.**, Brooks, G., Starkey, C. Ragan, B., & Hitchcock, J. (2014, June). Development of Patient-AT Trust Instrument. Paper presented at National Athletic Trainers Association 65th Annual Meeting, Indianapolis, Indiana. *Journal of Athletic Training Supplement*, 49,(S-3):239S-240S
- David, S. L.**, Brooks, G., Starkey, C. Ragan, B., & Hitchcock, J. (2014, April). Developing a Measure of Trust Using a Mixed-Methods Approach. Paper presented at American Education Research Association Annual Meeting, Philadelphia, Pennsylvania.
- Warner, K. D., David, S., L., & Ragan, B.* (2013, June). Inter-Rater Reliability of the Movement and Activity in Physical Space (MAPS) System: Geospatial Functional Outcome Measures. Paper Presented at National Athletic Trainers Association 64th Annual Meeting, Las Vegas, Nevada.
- Wells, K, A., Farnsworth J., L., McElhiney, D., S., **David, S., L.**, & Ragan, B. (2013, June) Validation of Accelerometry as a Physical Rest Monitor During Concussion Recovery. Paper presented at National Athletic Trainers Association 64th Annual Meeting, Las Vegas, Nevada.
- David, S. L.**, Price, E. A., & Ragan, B. G. (2013, June). Development of a patient-AT trust instrument using a focus group. Paper presented at National Athletic Trainers Association 64th Annual Meeting, Las Vegas, Nevada.
- Farnsworth, J., McElhiney, D., **David, S., L.**, Kang, M., & Ragan, B. G. (2013, June). Objective Assessment of Function following Head Injury using Movement Activity in Physical Space (MAPS) Scores. Paper presented at National Athletic Trainers Association 64th Annual Meeting, Las Vegas, Nevada.
- David, S. L.**, Louk, J., Kang, M. & Ragan B. G. (2013, May). Development of a Patient-AT Trust Instrument using Rasch Modeling. Paper presented at American College of Sport Medicine Annual Meeting, Indianapolis, Indiana. *Medicine and Science in Sports and Exercise*, 45(5):S.
- David, S. L.** & Ragan, B. G. (2012, June). Variability in context of time in athletic training-related patient reported outcomes (PROs). Paper presented at National Athletic Trainers Association 63rd Annual Meeting, St. Louis, Missouri. *Journal of Athletic Training Supplement*, 47,(S-39):210S-213S.
- Farnsworth, J., Nickels, S., Mc Elhiney, D., Bartholomew, M., **David, S. L.**, & Ragan, B. G. (2012, June). Objective assessment of function following head injury using movement and activity in physical space (MAPS) scores: A case report. Paper presented at National Athletic Trainers Association 63rd Annual Meeting, St. Louis, Missouri. *Journal of Athletic Training Supplement*, 47,(S-156):210S-213S.
- Gabler, C., **David S. L.**, Howe C. A., White J., & Ragan, B. G. (2012, June). The effectiveness of neuromuscular training on modifiable anterior cruciate ligament injury risk factors. Paper presented at National Athletic Trainers Association 63rd Annual Meeting, St. Louis, Missouri. *Journal of Athletic Training Supplement*, 47, (S-192):210S-213S.

B. Presentations with no published Abstracts

- David, S. L.** & Hitchcock, J. (2016, November). Validating A Trust Instrument in a New Context: Implications for Mixed Methods Survey Development. Paper presented at Mid-Western Educational Research Association Annual Meeting, Evanston, Illinois.
- David, S. L.** & McElhiney, D. (2014 November). Polytomous IRT Modeling: How to Poly. Paper presented at MWERA in Evanston, Illinois.
- David, S. L.**, Beadly, M., & McElhiney D. (2014, November). Comparing Classical Psychometrics and Rasch Modeling Results Using the ICIQ-B. Paper presented at MWERA in Evanston, Illinois.
- David, S. L.**, Beadly, M., & McElhiney D. (2014, November). Comparing Classical Psychometrics and Rasch Modeling Results Using the ICIQ-B.
- David, S. L.** & McElhiney D. (2013, November). The Demonstration of Item Response Theory with Polytomous Items Paper presented at Mid-Western Educational Research Association Annual Meeting, Evanston, Illinois.
- David, S. L.**, Silva, K., Friebel, C. & Ragan, B. (2013, June). Using Physical Activity as an Assessment of Function in Post-Surgical ACL Repair Patients. Paper presented at Ohio Athletic Trainers Association, Columbus, Ohio.
- David, S. L.** & Price, E. A. (2012, November). The use of mixed methods principles incorporating item response theory: An alternative item development perspective. Paper presented at Mid-Western Educational Research Association Annual Meeting, Evanston, Illinois.
- David, S. L.**, Starkey, C., & Ragan, B. G. (2010, May). Examination of the validity of the navicular drop test. Paper presented at Ohio Athletic Trainers' Association, Dayton, Ohio.

**Italics denotes student*

C. Invited Presentations

- David, S., L.**, (April, 2018). The Patient-Clinician Relationship: What do we know? Presented at North Dakota Athletic Trainers symposium and Business Meeting, Grand Forks, North Dakota.

D. Workshops

- David, S. L.** & McElhiney D. (2014, November). How to Poly! Presented at Midwestern Educational Research Association in Evanston, Illinois.
- David, S. L.** (2013, March). The Basics of Casting. Presented at Ohio University Heritage College of Osteopathic Medicine in Athens, Ohio.
- Vanessa Rosales de Veliz L., **David S.L.**, McElhiney D., Lewis M., Price E., & Brooks G. (2012, November). An Introduction to R: Monte Carlo Simulation. Presented at Midwestern Educational Research Association in Evanston, Illinois.
- Vanessa Rosales de Veliz L., **David S.L.**, McElhiney D., Lewis M., Price E., & Brooks G. (2012, November). An Introduction to R: The Basics. Presented at Midwestern Educational Research Association in Evanston, Illinois.

V. RESEARCH: GRANTS/CONTRACTS

Title: Stop the Bleed

Funding Agency: North Dakota State University Impact Foundation Grant

Role: Co-Investigator (PI: Hohman)

Date: October 15, 2019

Amount: \$23,019.80 (funded)

Description: The purpose of the grant was to obtain enough supplies to teach and collect data on using the national initiative Stop the Bleed.

Title: Validity of devices and apps to assess outdoor temperature and relative humidity

Funding Agency: Southeast Athletic Trainers Association

Role: Co-Investigator (PI: Brown)

Date: January 18, 2017

Amount: 1500.00 (not funded)

Description: The purpose is to determine the validity of weather measurement equipment and “weather apps” commonly used by athletic trainers during outdoor exercise in the heat across multiple locations in the United States.

Title: Reliability of devices and apps to assess outdoor temperature and relative humidity.

Funding Agency: Mid America Athletic Trainers Association

Role: Primary Investigator

Date: January 15, 2017

Amount: 1500.00 (500.00 funded)

Description: The purpose is to determine the reliability of weather measurement equipment and “weather apps” commonly used by athletic trainers during outdoor exercise in the heat across multiple locations in the United States.

Title: Beef Protein intake, physical activity, and muscle quality in middle age

Funding Agency: National Cattlemen’s Beef Association

Role: Statistics Consultant (Stastny, PI)

Date: January 15, 2016

Amount: 38, 610 (funded)

Description: The purpose of this study was to evaluate the associations amongst dietary beef protein intake, physical activity, and performance related muscle quality in middle age women.

Title: Protein and Muscular Health with Aging

Funding Agency: Sanford Seed Grant round 2

Role: Co-Investigator; Statistics Consultation

Date: March, 2015

Amount: 81,270 (funded)

Role: I provided review of the application, data management, and statistical analysis.

Title: Extracurricular athletic opportunities for underserved secondary school students with disabilities.

Funding Agency: Gulf States Health Policy Center

Role: Statistics Consultant (Green, PI)

Date: January 15, 2016

Amount: 49,999 (funded)

Description: The purpose of this study was to understand the disadvantage of students with disabilities and their support to participate in extracurricular activities.

Title: The Perception of Trust between Athletic Trainers and Musical Performing Artists

Funding Agency: National Athletic Trainers Association Research and Education Foundation Masters Grant

Role: Advisor; Co-Investigator

Date: February 15, 2015

Amount: 1000.00 (funded)

Description: The purpose of this study is to understand the relationship specifically trust between athletic trainers and the performing artists (drum corp).

Title: Protein and Muscular Health with Aging

Funding Agency: Sanford Seed Grant

Role: Co-Investigator; Statistics Consultation (Hackney, PI)

Date: March, 2015

Amount: 81,270 (funded)

Description: The purpose of this study was to explore the relationship between dietary protein intake and muscular health with aging and to determine if intake of two key amino acids (leucine and glutamine) facilitate the relationship.

Title: Athlete's Perception of Athletic Trainer Empathy: How Important is it?

Funding Agency: Mid America Athletic Trainers Association

Role: Primary Investigator

Date: January 15, 2015

Amount: 1500.00 (funded)

Description: The purpose of this study is to develop an understanding of patients' perceptions of the athletic trainer's level of empathy when delivering care and the impact on treatment adherence and outcomes.

Title: How Does Gender Influence the Patient-Clinician Relationship?

Funding Agency: Mid America Athletic Trainers Association

Role: Advisor; Co-Investigator

Date: January 15, 2015

Amount: 2000.00 (not funded)

Description: The purpose of this study is to determine the extent that gender influences the patient clinician relationship and subsequently determine how to improve the relationship when considering gender.

Title: The effect of Hyaluronic Acid Pulsed Current Iontophoresis on Acute Ankle Sprains

Funding Agency: National Athletic Trainers Association Research and Education Foundation

Role: Statistics Consultation (Brown, PI)

Date: December 2014

Amount: 50,070 (resubmission encouraged)

Description: The purpose of this study was to determine the efficacy of HA pulsed-current iontophoresis on pain levels by measuring two Visual Analogue Scales (VAS) and determine the efficacy of HA pulsed-current iontophoresis on ankle function by using a Lower Extremity Function Scale (LEFS).

Title: Extramural Loan Repayment Program for Clinical Researchers

Funding Agency: National Institute of Health

Role: Primary Investigator

Date: December 2014

Amount: 30,000 (not funded)

Description: The purpose of LRP is the promotion and retention of highly qualified health professionals as research investigators to careers in research.

Title: NDSU Instructional Grant

Funding Agency: North Dakota State University Provost Office

Role: Primary Investigator

Date: December 2013

Amount: 2,500.00 (not funded)

Description: The purpose of the grant is to promote the development of new courses.

Title: Development of a Patient-Athletic Trainer Trust Scale

Funding Agency: NATA's Research & Education Foundation

Role: Primary Investigator

Date: September 2012-August 2013

Amount: 2,500.00 (funded)

Description: The purpose was to develop a measure of patient-athletic trainer trust scale using a mixed methods (Interviewing and IRT) approach. In addition, provide various pieces of validity evidence for the trust scale.

Title: Using Physical Activity as an Assessment Function in Post-Surgical ACL repair patients

Funding Agency: Ohio Athletic Trainers' Association

Role: Primary Investigator

Date: March 2012-February 2013

Amount: 1,000.00 (333.00 funded)

Description: The purpose was to examine the recovery curve during ACL rehabilitation with physical activity using step counts and step activity.

Title: The Effectiveness of Neuromuscular Training on Modifiable Anterior Cruciate Ligament Injury Risk Factors

Funding Agency: NATA's Research & Education Foundation (Gabler, PI)

Role: Co-Investigator

Date: September 2011- August 2012

Amount: 1,000.00 (funded)

Description: The purpose of this study is to evaluate the effectiveness of a Neuromuscular Training program on a modifiable ACL risk factor relative to a resistance training program of equal volume and frequency of exercise in females.

VI. SERVICE

A. Manuscript Reviewer

Invited Reviewer for Measurement in Physical Education and Exercise Science
 Invited Reviewer for School Psychology Review
 Athletic Training and Sports Health Care Reviewer
 Journal of Athletic Training Reviewer
 Journal of Mixed Methods Research Reviewer

B. Abstract/Grant Reviewer

Midwestern Educational Research Association Abstract Reviewer (2014)
 American Alliance for Health, Physical Education, Recreation and Dance Grant Reviewer (2012)
 Ohio Athletic Trainers Association Research Committee (2011-2013)

C. Master Thesis Committees

2017	Thesis Committee Chair: Peroutka, Chris. Validation of Commonly used Patient Reported Outcome Measures in the Physically Active Population. MS. North Dakota State University, Fargo, North Dakota.
2017	Thesis Committee Chair: Kirsch, Danielle. Understanding Patient Satisfaction when seen by an Athletic Trainer in the Clinic Setting. MS. North Dakota State University, Fargo, North Dakota.
2017	Thesis Committee Member: Gehl, Ashley. Understanding Patient Outcomes following Bariatric Surgery. MS. North Dakota State University, Fargo, North Dakota.
2016	Thesis Committee Chair: Schmidt, Brian. Psychometric Evaluation of the Musculoskeletal Pain Questionnaire for Musicians and the Musculoskeletal Pain Intensity and Interference Questionnaire for Musicians. MS. North Dakota State University, Fargo, North Dakota.
2016	Thesis Committee Member: Stangl, Christa. Attracting a New Generation of Participants to the Elderly Nutrition Program. MS. North Dakota State University, Fargo, North Dakota.
2015	Thesis Committee Chair: McCuskey, Kyle. Personality and Trust. Is there a connection? MS. North Dakota State University, Fargo, North Dakota.

- 2015 Thesis Committee Chair: Saemrow, Matt. Does AT Gender Influence the Patient-Clinician Relationship? MS. North Dakota State University, Fargo, North Dakota.
- 2015 Thesis Committee Chair: Chinburg, Jenna. Athletic Training Trust in the Drum Corp. MS. North Dakota State University, Fargo, North Dakota.
- 2015 Thesis Committee Chair: Carlson, Andrew. Attitudes towards the Army Physical Fitness Test (APFT). MS. North Dakota State University, Fargo, North Dakota.
- 2015 Thesis Committee Member: Bummer, Matt. Physiological changes in the UCL in Division I Collegiate Baseball players. MS. North Dakota State University, Fargo, North Dakota.
- 2015 Thesis Committee Member: Shaner, Kelly. Wetted Ice Bags: Does The Temperature Of The Water Added To The Bag Really Matter? MS. North Dakota State University, Fargo, North Dakota.
- 2015 Thesis Committee Member: Strand, Kathrine. Evaluation of Blood Flow using Ultrasound. MS. North Dakota State University, Fargo, North Dakota.
- 2014 Thesis Committee Chair: Drayton, Alexandra. Cramp Threshold Frequency in a Fatigued Flexor Hallicus Longus Compared to a Rested Flexor Hallicus Longus MS. North Dakota State University, Fargo, North Dakota.
- 2013 Thesis Committee Member: Silva, K. Validation of Physical Activity and the Movement and Activity in Physical Space (MAPS) Score as a functional outcome measure following ACL reconstruction surgery. MS. Ohio University, Athens, Ohio.
- 2013 Thesis Committee Member: Gray, K. Validation of the Ottawa Ankle Rules for Acute Foot and Ankle Injuries Over Time. MS. Ohio University, Athens, Ohio.
- 2012 Thesis Committee Member: Farnsworth, J. Objective assessment of Function Following Head Injury Using Movement and Activity in Physical Space (MAPS) Scores. MS. Ohio University, Athens, Ohio.

D. Professional

CAATE Site Visitor	2019 - Current
National Athletic Trainers Association Free Communication Committee Member	2019 - Current
Associate Editor International Journal of Multiple Research Approaches	2017 – Current
North Dakota Athletic Trainers Association Nominations Committee Chair	2017 – Current

National Athletic Trainers Association Member	2013 – Current
Mid-American Athletic Trainers Association Member	2013 – Current
North Dakota Athletic Trainers Association Member	2013 – Current
Invited Reviewer for School Psychology Review	2016 – 2017
Invited Reviewer for Measurement in Physical Education and Exercise Science	2015 – 2016
Invited Reviewer for School Psychology Review	2015 – 2016
Mid-American Athletic Trainers Association Conference Moderator	2015 – 2016
Midwestern Education Research Association Conference Session Chair	2014 – 2015
Midwestern Education Research Association Conference Session Discussant	2014 – 2015
Midwestern Education Research Association Conference Abstract Reviewer	2014 – 2015
National Athletic Trainers Association Free Communication Judge	2013 - 2015
Midwestern Educational Research Association (MWEREA) Member	2013 - 2015
American Educational Research Association (AERA) Member	2013 – 2015
American College of Sports Medicine (ACSM) Member	2013 – 2014

E. University, Department, Program Committees/Organizations

A. Department Service

Promotion and Tenure Committee	2019 – Current
Promotion and Tenure Document Subcommittee	2019 – Current
Exercise Science Master Subcommittee	2019 – Current
Completed BOC CEU Annual Report	2016 – Current
Assist with CAATE Annual Report	2016 - Current
Search Committee for Department Head Member	2014 – 2015
AT Self-Study/Accreditation Committee Member	2013 – 2015
B. College Service	
HDE Research Committee	2019 - Current
HDE Research Committee – Chair	2016 – 2018
C. University Service	
University Budget Committee Member	2019 - Current
Conduct Board Committee Member	2014 – Current
Faculty Senate Grade Appeals Committee Member	2016 – Current
Faculty Senate Grade Appeals Committee Alternate Member	2014 – 2016
F. Community	
Stop the Bleed Instructor	2019 – Current
United Way 35 Under 35 Women’s Leadership Session I Lead/Co-lead	2018 - Current
United Way 35 Under 35 Women’s Leadership Application Committee Member	2016 - 2018