

Bethany Ann (Schneider) Moore

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EDUCATION:

- 08/2019 – Present **University of Alabama at Birmingham**
Doctor of Philosophy: Nutrition Sciences
- 08/2017 – 12/2018 **University of Alabama at Birmingham**
Master of Science: Exercise Physiology, *summa cum laude*
Master's Thesis: "Relationship of Body Composition with Muscle Performance in Older Adults"
- 08/2012 – 12/2016 **Texas Christian University**
Bachelor of Science: Kinesiology, Movement Science

RESEARCH INTERESTS:

The interactions and influence of body composition, fat distribution, and muscle quality in childhood obesity and diabetes. Mechanisms leading to decreased, spontaneous physical activity.

RESEARCH EXPERIENCE:

- 01/2021 – Present **Graduate Research Assistant**, Department of Nutrition Sciences, University of Alabama at Birmingham, Principal Investigator: Paula Chandler-Laney, PhD
- Drafted initial Human Subjects Protocol for proposed new research projects
 - Drafted and prepared manuscript for submission
 - Submitted manuscript as corresponding author
 - Cleaned and checked resting metabolic rate data in preparation for statistical analysis
- 01/2020 – 12/2020 **Research Rotation**, Department of Nutrition Sciences, University of Alabama at Birmingham, Principal Investigator: Paula Chandler-Laney, PhD
- Prepared accelerometry data for analysis using ActiLife software
 - Created budget options for off-campus meal demonstration
 - Drafted initial budget for Obesity Health Disparities Research Center pilot grant application: "Restructuring the School Day to Promote Health in i3 Academy", Principal Investigator: Marissa Gowe, PhD
 - Prepared and presented secondary data analysis within the lab and at national meeting
- 08/2019 – 12/2019 **Research Rotation**, Department of Nutrition Sciences, University of Alabama at Birmingham, Principal Investigator: Courtney Peterson, PhD
- Led weekly team lab meeting
 - Prepared agenda and all other necessary documentation for weekly team meeting
 - Ensured specimen (blood and urine) integrity by proper handling and storage
 - Checked participant adherence to protocol using REDCap data management and collection tool
 - Checked participant adherence and managed participants' digital food records using the Remote Food Photography Method (RFPM) and the software Automated Data Management Utility 2 (ADMU2)
 - Set-up participant profiles and schedules for remote food photography methods in ADMU2
 - Entered and managed data in REDCap and ShareFile systems
 - Assisted in-person participant visits at on campus lab facilities
 - Performed and recorded study exit interviews with participants

- Collaborated with personnel at Pennington Biomedical Research Center to ensure accurate RFPM data collection, storage and analysis

03/2019 – 08/2019 **Research Assistant**, Department of Physical Therapy, University of Alabama at Birmingham, Principal Investigator: Harshvardhan Singh, PT, PhD

- Calibrated, tested and implemented exercise protocols using BTE Eccentron
- Calibrated, tested and implemented exercise protocols using Biodex System 3
- Tested jump performance using Just Jump System, TENDO power and speed analyzer, and force plates
- Set-up, calibrated, collected and extracted data using Vicon Motion Capture System and AMTI force platforms
- Set-up and tested participants using Prokinetics Zeno Walkway
- Prepared Institutional Review Board protocols and consent forms
- Performed data entry and managed data
- Recruited, phone pre-screened, and scheduled participants
- Prepared Standard Operating Procedures for study protocols
- Conducted a systematic review of literature
- Drafted and submitted manuscripts

01/2019 – 08/2019 **Research Assistant**, Physical Activity Core, Nutrition and Obesity Research Center, University of Alabama at Birmingham, Supervisors: Gary R Hunter, PhD and David Bryan, MA, ACSM CPT, CCET

- Performed several functional physical activity tests including:
 - Sit-to-stand test
 - 3-meter walk test
 - Balance testing
 - VO₂ max/VO₂ peak testing
 - Submaximal VO₂ bike testing
 - Treadmill testing
 - Pediatric submaximal walking economy
- Collected urine and saliva specimens
- Tested VO₂ max for determination of ventilatory threshold for UAB Men's Basketball
- Ensured specimen (blood and urine) integrity by proper handling and storage
- Maintained and cleaned lab space and equipment
- Calibrated and maintained Parvo medics' TrueOne 2400 metabolic cart
- Checked participant adherence to protocol using REDCap data management and collection tool
- Checked participant adherence and managed participants' digital food records using the Remote Food Photography Method (RFPM) and the software Automated Data Management Utility 2 (ADMU2)
- Managed clinical files in the HIPAA-compliant software ShareFile
- Entered and managed data

11/2017 – 12/2018 **Graduate Research**, Neuromuscular Lab, Department of Physical Therapy, University of Alabama at Birmingham, Principal Investigators: Harshvardhan Singh, PT, PhD and Donald Lein, PT, PhD

- Calibrated, tested and implanted exercise protocols using BTE Eccentron
- Calibrated, tested and implanted exercise protocols using Biodex System 3
- Tested jump performance
- Prepared Institutional Review Board documentation

01/2016 – 12/2016 **Undergraduate Research**, Kinesiology Department, Metabolic Lab, Texas Christian University, Principal Investigator: Meena Shah, PhD

- Performed physical activity recalls
- Performed 24-hour food recalls
- Measured blood pressure using the American Heart Association Blood Pressure protocol

- Recruited participants
- Basic reading of DXA results
- Implemented study protocol, with the exception of phlebotomy

PUBLICATIONS:

Street M, Walker T, **Moore BA**, Casazza K, Wallace S, Quach P, Chandler-Laney P, Kim S, Singh H. Interplay between adiposity and clinical measurements of neuromuscular performance in children. In preparation, Proposed submission to *Physical Medicine and Rehabilitation*.

Moore BA, Casazza K, Wallace S, Chandler-Laney P, Singh H. Enhanced concentric torque after eccentric loading is a positive contributor to dynamic balance in children. In preparation, Proposed submission to *Physical Medicine and Rehabilitation*.

Chandler-Laney P, Martin SL, Zhang L, Callahan MA, Bahorski J, Philips S, Lewis CE, Hidalgo BA, Durant N, **Moore BA**, Everett A, Aslibekyan S, Harper LM, Battarbee A, Habegger K, Yi N, Garvey WY. Postprandial metabolism in others and children with a prenatal history of obesity, with and without GDM. In Preparation, Proposed submission to *Obesity*.

Singh, H*, **Moore BA***, Saag KG, Rathore R, Bembem DA, Thompson W, Fisher G, Modlesky CM, Hunter GR. Skeletal Effects of Muscle Lengthening Exercise: A Scoping Review. In Preparation, Under review at *BMC Musculoskeletal Disorders*. *Indicates co-first authorship

Moore BA, Callahan MA, Martin SL, Everett A, Garvey WT, Chandler-Laney P. Associations among physical activity, adiposity, and insulin resistance in children exposed *in utero* to maternal obesity with and without gestational diabetes. Under Review, *Pediatric Exercise Science*.

Martin SL, Zhang L, Callahan ML, Bahorski J, Lewis CE, Hidalgo BA, Durant N, Harper LM, Battarbee AN, Habegger K, **Moore BA**, Everett A, Aslibekyan S, Sertie R, Yi N, Garvey WT, Chandler-Laney P. Mother-child cardiometabolic health 4-10 years after pregnancy complicated by obesity with and without gestational diabetes. Published. 16 February 2022, *Obesity Science & Practice*.

Singh H. **Moore BA**, Rathore R, Bembem MG, Bembem DA. Sex-specific associations between bone loading score and adiposity markers in middle-aged and older adults. Published. 13 August 2021, *Journal of Aging and Physical Activity*. <https://doi.org/10.1123/japa.2020-0200>.

Moore BA, Bembem DA, Lein DH, Bembem MG, Singh H. Fat Mass is Negatively Associated with Muscle Strength and Jump Test Performance. Published, 16 March 2020, *Journal of Frailty and Aging*. <https://doi.org/10.14283/jfa.2020.11>

PRESENTATIONS:

Moore BA, Callahan M, Martin S, Everett A, Garvey WT, Chandler-Laney P. "Sedentary behavior and physical activity in children at high versus low risk for obesity." Poster. The Obesity Society, Obesity Week 2021. Virtual Meeting. 1-5 November 2021.

House D, Lovelady C, Patel R, Perry J, Steen H, **Moore B**, Chandler-Laney P. "An intervention to improve children's ability to be physically active." Poster. UAB Undergraduate Research Expo Fall 2020.

Moore BA, Callahan M, Martin S, Everett A, Garvey WT, Chandler-Laney P. "Gestational diabetes and obesity and child physical activity, adiposity, and insulin sensitivity. Poster. The Obesity Society, Obesity Week 2020. Virtual Meeting. 2-6 November 2020.

Almutairi M, Singh H, **Moore BA**, Hunter GR. "Constraints of movement velocity and joint-specificity dictate stretch shortening cycle potentiation in young adults." Poster. Southeast Chapter of American College of Sports Medicine Annual Meeting. Jacksonville, Florida. 13 February 2020.

Almutairi M, Singh H, **Moore BA**, Hunter GR. "Isokinetic potentiated torque ratio of the plantar flexors is higher than the knee extensors." Poster. Asian Federation of Sports Medicine Congress. Riyadh, Saudi Arabia. 13 December 2019.

Moore BA, Singh H, Bembem DA, Hunter GR. "Percent total body fat is negatively associated with muscle strength and jump performance in older men and women, independent of age, height, and muscle mass." Poster. American Society for Bone and Mineral Research (ASBMR) 2018 Annual Meeting. Montréal, Canada. 28 September 2018.

Moore BA, Singh H, Bembem DA, Hunter GR. "Percent total body fat is negatively associated with muscle strength and jump performance in older men and women, independent of age, height, and muscle mass." Poster. University of Alabama at Birmingham Center for Exercise Medicine 6th Annual Symposium. Birmingham, AL. 21 September 2018.

Moore BA, Singh H, Bembem DA, Chen Z, Saag KG, Lein DH, Brown CJ, Hunter GR. "Percent total body fat, independent of age, height, and muscle mass, is negatively associated with muscle strength and jump test performance in older women." Poster. 2nd Annual Disability Health and Rehabilitation Science (DHARS) Symposium. Birmingham, AL. 18 May 2018.

Nelson L*, **Schneider B***, Jaffery M, Martinez C, Gloeckner A, Bailey S, Baleztena A, Kreutzer A, Shah M. "Effect of Meal Composition on Blood Pressure in Normal Weight Subjects." Poster. Texas Christian University, Harris College of Nursing and Health Sciences Research Symposium 2016. 4th place. Fort Worth, TX. 7 April 2016. * indicates co-first authorship

Jaffery M, **Schneider B**, Nelson L, Gloeckner A, Martinez C, Bailey S, Adams-Huet B, Kreutzer A, Mitchell J, Oliver J, Shah M. "Effect of Meal Composition on Postprandial Lipid Responses in Normal Weight Participants." Poster. Texas Christian University, Harris College of Nursing and Health Sciences Research Symposium 2016. Fort Worth, TX. 7 April 2016.

STUDENT REVIEWER:

Journal of Aging and Physical Activity

Journal of Strength and Conditioning Research

BMC Musculoskeletal Disorders

AWARDS AND SCHOLARSHIPS:

Fall 2021	Strengthening Casual Interference in Behavioral Obesity Research Short Course with Course Scholarship Indiana University
Spring 2021 – Present	Graduate Research Assistant, Department of Nutrition Sciences University of Alabama at Birmingham
Fall 2019 – Fall 2020	Blazer Graduate Research Fellowship University of Alabama at Birmingham
Fall 2018	Departmental Scholarship, Department of Physical Therapy University of Alabama at Birmingham
Fall 2018	Graduate Student Government 2018 Travel Grant University of Alabama at Birmingham

Summer 2018 Departmental Scholarship, Department of Physical Therapy
University of Alabama at Birmingham

2017-2018 Outstanding Student, Exercise Physiology, Kinesiology
University of Alabama at Birmingham

OTHER RELEVANT EXPERIENCE:

02/2018 – 03/2021 **Girls' Team Coach**, His Kids Academy
Birmingham, Alabama

- Prepared and implemented muscle strengthening, flexibility, and range of motion exercise program
- Mentored girls ages 5-16 in the areas of motor control, flexibility, strength and gymnastics skills in preparation for competition

05/2017- 09/2017 **Coach**, JamJev Gymnastics
Birmingham, Alabama

- Mentored girls ages 3-11 in the areas of motor development, flexibility, and strength and conditioning
- Planned and conducted age- and skill-appropriate lessons for classes weekly

09/2013 – 12/2016 **Coach**, Lone Star Gymnastics
Fort Worth, Texas

- Mentored girls ages 3-13 in the areas of strength, agility, flexibility and movement within gymnastics skills to help develop and balance the athletes

SERVICE:

DEPARTMENT/UNIVERSITY SERVICE:

05/2022 – Present **Mentor, School of Health Professions Undergraduate Research and Honors Program**, University of Alabama at Birmingham
Birmingham, Alabama

- Guided team of undergraduate students through scientific writing process
- Reviewed and edited abstracts, poster, and original research articles for submission
- Prepared students for oral presentation of research findings

08/2021 – Present **Mentor, Department of Nutrition Sciences Student Engagement Committee**,
University of Alabama at Birmingham
Birmingham, Alabama

- Peer mentor to 1st year PhD Students in the Department of Nutrition Sciences
- Planned casual events to create a community for new PhD students
- Available to answer questions about department, work/life balance, or any other topics related to student life within our department

08/2021 – Present Event Planning Committee Member, **Department of Nutrition Sciences Student Engagement Committee**, University of Alabama at Birmingham
Birmingham, Alabama

- Planned monthly events to engage students of the PhD programs and create a community within the department spanning all years of study

09/2020 – 05/2022 **Co-Mentor, School of Health Professions Undergraduate Research and Honors Program**, University of Alabama at Birmingham
Birmingham, Alabama

- Instructed group of five undergraduates in the research process
- Guided students through research activities including: literature searches, data collection, data entry, and poster preparation and presentation

04/2020 – 08/2020 **Preceptor, Dietetic Internship Program**, University of Alabama at Birmingham
Birmingham, Alabama

- Supervised four students for Internship Practicum: Foodservice 2: Child Nutrition Program

COMMUNITY SERVICE:

04/2022 **Judge**, ABRCMS ePoster Spring Symposium for Emerging Scientist

06/2010 – Present (*summers*) **Counselor**, Camp Hope
Dahlonaga, Georgia

- Supervised a group of 12-13 girls aged 8-19 in all camp activities for the week
- Organized and oversaw a co-ed camper teams in games and activities
- Coordinated and oversaw skills activity (swimming, hiking, chorus, etc.)
- Prepared and lead twice daily cabin devotions

09/2013 – 01/2016 **Community Liaison**, TCU LEAPS
Fort Worth, Texas

- Coordinated full day service projects with service sites (Multicultural Alliance, TCU and Community Food Bank)
- Supervised the service activities of a group of 20-100 TCU students
- Facilitated group discussion about service and future opportunities to work in the Fort Worth community

AFFILIATIONS:

09/2020 – present	Student Member, The Obesity Society
03/2018 – present	Member, International Osteoporosis Foundation
10/2017 – present	Graduate Student Member, American College of Sports Medicine
08/2018 – 12/2018	American Society of Bone Mineral Research (ASBMR) – National Research Mentoring Network (NRMN) Virtual Mentoring Pilot Program; Mentor: Sarah Berry, MD, MPH
06/2018 – 12/2018	In-training member, American Society for Bone and Mineral Research
05/2018 – 12/2018	UAB Student Kinesiology Association Vice President, 05/2018 – 12/2018
12/2017 – 12/2018	University of Alabama at Birmingham Graduate Student Advisory Committee
01/2015 – 01/2016	Texas Christian University Student Kinesiology Association Treasurer, 01/2015 – 01/2016
01/2014 – 12/2016	Member, Texas Regional Chapter, American College of Sports Medicine
10/2012 – 05/2016	Alpha Delta Pi Sorority, Gamma Chi Chapter
08/2012 – 05/2016	Texas Christian University Gymnastics Club Treasurer and Co-President, 08/2013 – 05/2016

CERTIFICATIONS:

Adult and Pediatric First Aid/CPR/AED, American Red Cross

Responsible Conduct of Research Basic Course, CITI Program

Human Research IRB Training – Biomedical 1 – Basic Course, CITI Program

Good Clinical Practice 1 – Basic Course, CITI Program

U101: Safety and Risk Management, USA Gymnastics

Level 1 MRI Training, Civitan International Neuroimaging Laboratory (CINHL), University of Alabama at Birmingham

Bloodborne Pathogens Training, University of Alabama at Birmingham

HIPPA Training, University of Alabama at Birmingham