

Madison C. Chandler, Ph.D.

209 Fetzer Hall, CB #8700 | Chapel Hill, NC 27599

(919) 962-0409 | chandlem@email.unc.edu

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EDUCATION

2021 **Doctor of Philosophy in Kinesiology – Cognitive & Motor Neuroscience**
Michigan State University

Dissertation: “Self-Regulation Moderates the Relationship between Fine Motor Skills and Writing in Early Childhood”

Advisor: Matthew B. Pontifex, Ph.D.

Degree awarded with interdepartmental graduate specialization in Cognitive Science

2017 **Bachelor of Arts in Psychology**
Minor in Neuroscience
The University of North Carolina at Chapel Hill

Senior Honors Thesis: “Teacher Language, Executive Function, and Students’ Strategy Use in Memory and Mathematics”

Advisor: Peter A. Ornstein, Ph.D.

Degree awarded with Highest Honors and Distinction

PROFESSIONAL EXPERIENCE

2021 – present **Postdoctoral Research Associate**
Matthew Gfeller Center
Department of Exercise & Sport Science
The University of North Carolina at Chapel Hill
Mentor: Johna K. Register-Mihalik, Ph.D., ATC
<https://tbicenter.unc.edu/>

2017 – 2021 **Graduate Research Assistant**
Health Behaviors & Cognition Laboratory
Department of Kinesiology
Michigan State University
PI: Matthew B. Pontifex, Ph.D.
<http://education.msu.edu/kin/hbcl>

2017 – 2021 **Graduate Teaching Assistant**
Department of Kinesiology
Michigan State University

2105 – 2017 **Undergraduate Research Assistant**
 Classroom Memory Study Laboratory
 Department of Psychology & Neuroscience
 The University of North Carolina at Chapel Hill
 PIs: Jennifer L. Coffman, Ph.D. & Peter A. Ornstein, Ph.D.

HONORS AND AWARDS

Spring 2020 **Kinesiology Endowed Fellowship Recipient**
 College of Education, Michigan State University

 Recognizes graduate students who have “demonstrated exemplary motivation and capacity to achieve educational and professional goals, and initiative to go beyond ordinary expectations in their professional behavior and development.”

Spring 2020 **American Kinesiology Association Graduate Student Writing Award**
 Michigan State University

Spring 2019 **Honorable Mention Recipient**
 National Science Foundation Graduate Research Fellowship Program
 (NSF GRFP)

2017 – 2021 **Dean’s Scholars Fellow**
 College of Education, Michigan State University

2013 – 2017 **Dean’s List** (6 semesters)
 The University of North Carolina at Chapel Hill

Spring 2017 **“Best Poster” Award**
 UNC Celebration of Undergraduate Research

FUNDING

Extramural Grants (submitted and funded):

Total Extramural Funding Pursued: \$311,987; Total Extramural Funding Awarded: \$1,775

Funded:

1. Society for Psychophysiological Research (SPR) Research Training Fellowship

Amount: \$1,775 TDIC | Role: PI | **Funded**, April 2020

Submitted (in review):

2. NINDS Ruth L. Kirschstein NRSA F32 Postdoctoral Fellowship, Principal Investigator:
 “Mitigating Role of Lifestyle Factors on Relationships Among Blast Exposure, Traumatic Brain Injury, and Brain Health Outcomes”

Amount: \$162,212 TDIC | Role: PI | Submitted, June 2022 (**in review**)

Submitted (not funded):

3. SHAPE America Thomas L. McKenzie Research Grant Award, Principal Investigator: “School-Based Exercise & Brain Health: Knowledge, Perceptions, & Practice”
Amount: \$2,000 TDIC | Role: PI | Unfunded, March 2022
4. American College of Sports Medicine (ACSM) Foundation Doctoral Student Grant, Principal Investigator: “Aerobic Fitness and Neuroelectric Indices of Reading and Attention in Preadolescent Children”
Amount: \$5,000 TDIC | Role: PI | Unfunded, January 2020
5. Blue Cross Blue Shield Michigan Student Award Program, Principal Investigator: “Healthy Body, Healthy Brain: Aerobic Fitness, Self-Regulation, and Cognitive Function in Michigan Youth”
Amount: \$3,000 TDIC | Role: PI | Unfunded, April 2019
6. NSF, National Science Foundation Graduate Research Fellowship Award, Principal Investigator: “Superior Reading Associated with Aerobic Fitness: Driven by Attention or Semantic Processing?”
Amount: \$138,000 TDIC | Role: PI | Unfunded,* October 2018
*Received Honorable Mention designation

Intramural Grants (submitted and funded):

Total Intramural Funding Pursued: \$30,890; Total Intramural Funding Awarded: \$30,890

Funded:

1. Michigan State University, The Graduate School, Dissertation Completion Fellowship
Amount: \$7,000 | Role: PI | **Funded**, December 2020
2. Michigan State University, College of Education, Dissertation Research Support Grant
Amount: \$3,890 | Role: PI | **Funded**, March 2020
3. Michigan State University, Summer Research Renewable Fellowship (SRRF), “Superior Reading Associated with Aerobic Fitness: Driven by Attention or Semantic Processing?”
Amount: \$12,000 | Role: PI | **Funded**, January 2019
4. Michigan State University, Summer Research Development Fellowship (SRDF), “Development of the Skills to Investigate the Relationship of Fitness to Language Processing and Reading”
Amount: \$5,000 | Role: PI | **Funded**, February 2018
5. UNC Summer Undergraduate Research Fellowship (SURF)
Amount: \$3,000 | Role: PI | **Funded**, May 2016

SCHOLARSHIP

Peer-reviewed Journal Articles (in print or accepted):

1. **Chandler, M. C.**, Ellison, O. K., McGowan, A. L., Fenn, K. M., & Pontifex, M. B. (2022). Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. *Journal of American College Health*. Online ahead of print. doi: 10.1080/07448481.2022.2077110
2. **Chandler, M. C.**, Gerde, H. K., Bowles, R. P., McRoy, K. Z., Pontifex, M. B., & Bingham, G. E. (2021). Self-regulation moderates the relationship between fine motor skills and writing in early childhood. *Early Childhood Research Quarterly*, 57, 239-250. doi: 10.1016/j.ecresq.2021.06.010
3. **Chandler, M. C.**, McGowan, A. L., Brascamp, J. W., & Pontifex, M. B. (2021). Phasic activity of the locus-coeruleus is not a mediator of the relationship between fitness and inhibition in college-aged adults. *International Journal of Psychophysiology*, 165, 1-7. doi: 10.1016/j.ijpsycho.2021.03.007
4. McGowan, A. L., **Chandler, M. C.**, & Pontifex, M. B. (2021). Aerobic fitness relates to superior exact and approximate arithmetic processing in college-aged adults. *Trends in Neuroscience & Education*, 23, 100154. doi: 10.1016/j.tine.2021.100154
5. **Chandler, M. C.**, McGowan, A. L., Burles, F., Scavuzzo, C. J., Mathewson, K. E., & Pontifex, M. B. (2020). Aerobic fitness unrelated to acquisition of hippocampal-dependent memory in college-aged adults. *Journal of Sport & Exercise Psychology*, 42:6, 472-479. doi: 10.1123/jsep.2020-0004
6. **Chandler, M. C.**, McGowan, A. L., Ferguson, D. P., & Pontifex, M. B. (2020). Carbohydrate mouth rinse has no effects on behavioral or neuroelectric indices of cognition. *International Journal of Psychophysiology*, 151, 49-58. doi: 10.1016/j.ijpsycho.2020.02.012
7. **Chandler, M. C.**, McGowan, A. L., Payne, B. R., Wray, A. H., & Pontifex, M. B. (2019). Aerobic fitness relates to differential attentional but not language-related cognitive processes. *Brain and Language*, 198, 104681. doi: 10.1016/j.bandl.2019.104681
8. McGowan, A. L., **Chandler, M. C.**, Brascamp, J. W., & Pontifex, M. B. (2019). Pupillometric indices of locus-coeruleus activation are not modulated following single bouts of exercise. *International Journal of Psychophysiology*, 140, 41-52. doi: 10.1016/j.ijpsycho.2019.04.004
9. Pontifex, M. B., McGowan, A. L., **Chandler, M. C.**, Gwizdala, K. L., Parks, A. C., Fenn, K., & Kamijo, K. (2019). A primer on investigating the after effects of acute bouts of physical activity on cognition. *Psychology of Sport & Exercise*, 40, 1-22. doi: 10.1016/j.psychsport.2018.08.015

Manuscripts Submitted for Review / Preprints:

1. **Chandler, M. C.**, Bloom, J., Fonseca, J., Ramsey, K., DeMaio, V. J., Callahan, C. E., & Register-Mihalik, J. K. (in review). Individual symptom report prevalence in children and

adolescents with one, two, and three or more persistent symptoms after concussion: A brief report.

2. McGowan, A. L., **Chandler, M. C.**, & Gerde, H. K. (in review). Infusing physical activity into early childhood classrooms: Guidance for best practices.

Commentary & Scholarly Reports (not peer-reviewed):

1. Pontifex, M. B. & **Chandler, M. C.** (2019). Commentary on the use of accelerometry in individuals at risk for depression. *Submitted to industry funder.*

Abstracts (in print or accepted):

*Denotes author was a student or trainee.

1. **Chandler, M. C.**, Callahan, C. E., Bloom, J., Fonseca, J., Ramsey, K., DeMaio, V. J., & Register-Mihalik, J. K. (2022). Predictive factors of at least one versus three or more persistent symptoms after concussion in youth athletes. *Journal of Sport & Exercise Psychology*, 44:S1.
2. Beisecker, L., **Chandler, M. C.**, Barczak-Scarboro, N., Kroshus, E., Register-Mihalik, J. K., & DeFreese, J. D. (2022). Associations between burnout, perceived sport stress, and intrinsic motivation among female-identified collegiate club sport athletes: A pilot study. *Journal of Sport & Exercise Psychology*, 44:S1.
3. **Chandler, M. C.**, Bloom, J., Fonseca, J., Ramsey, K., De Maio, V. J., Callahan, C. E., & Register-Mihalik, J. K. (2022). Individual symptom report prevalence in youth with one, two, and three or more persistent symptoms after concussion. *Journal of Athletic Training*, 57:6S.
4. **Chandler, M. C.**, Ellison, O. K., McGowan, A. L., Fenn, K. M., & Pontifex, M. B. (2021). Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. *Medicine & Science in Sports & Exercise*, 53(8S), 307-308.
5. **Chandler, M. C.**, McRoy, K. Z., Goodwin, S., Bowles, R. P., Bingham, G. E., Gerde, H. K., & Pontifex, M. B. (2020). Preschoolers' self-regulation, fine motor skills, and performance on a standardized literacy assessment. *Medicine & Science in Sports & Exercise*, 52(7S), 617.
6. Ellison, O. K., Ham, M. S.*, **Chandler, M. C.**, Pontifex, M. B., & McGowan, A. L. (2020). Fitness related differences and neuroelectric indices of arithmetic approximation in college-aged adults. *Medicine & Science in Sports & Exercise*, 52(7S), 615-616.
7. **Chandler, M. C.**, Ferguson, D. P., & Pontifex, M. B. (2019). Carbohydrate mouth rinse does not affect neuroelectric and behavioral indices of cognition. *Psychophysiology*, 56, S99.
8. McGowan, A. L., **Chandler, M. C.**, & Pontifex, M. B. (2019). Fitness modulates behavioral not pupillometric indices of arithmetic processing in college-aged adults. *Psychophysiology*, 56, S73.
9. **Chandler, M. C.**, McGowan, A. L., Mathewson, K. E., Scavuzzo, C. J., & Pontifex, M. B. (2019). Aerobic fitness does not predict acquisition of hippocampal-dependent memory in college-aged adults. *Journal of Sport & Exercise Psychology*, 41, S57.
10. **Chandler, M. C.**, McGowan, A. L., Hampton Wray, A., Payne, B. R., & Pontifex, M. B. (2018). The relationship between aerobic fitness and neuroelectric indices of reading in college-aged adults. *Psychophysiology*, 55, S109.

11. McGowan, A. L., **Chandler, M. C.**, Brascamp, J. W., & Pontifex, M. B. (2018). The effect of acute exercise on pupillometric indices of locus-coeruleus activation in college-aged young adults. *Psychophysiology*, *55*, S35.
12. **Chandler, M. C.**, McGowan, A. L., Brascamp, J. W., & Pontifex, M. B. (2018). Exploring the relationship between aerobic fitness and activation of the locus-coeruleus. *Journal of Sport & Exercise Psychology*, *40*, S82.
13. McGowan, A. L., **Chandler, M. C.**, Brascamp, J. W., & Pontifex, M. B. (2018). Investigating the role of tonic and phasic locus-coeruleus activation in modulating cognition following acute exercise. *Journal of Sport & Exercise Psychology*, *40*, S106-S107.

Conference Presentations (not included in Abstracts):

International:

1. **Chandler, M.C.**, Callahan, C. E., Bloom, J., Fonseca, J., Ramsey, K., De Maio, V. J., Register-Mihalik, J. K. (2022). Quality of life differences across children & adolescents reporting 0, 1-2, and 3+ persistent post-concussion symptoms. Poster to be presented at the 6th International Consensus Conference on Concussion in Sport, October 27-28, 2022, Amsterdam, The Netherlands.
2. **Chandler, M. C.**, McRoy, K. Z., Gerde, H. K., Bowles, R. P., & Pontifex, M. B. (2021). Self-regulation moderates the relationship between fine motor skills and writing in early childhood. Verbal symposium presentation at the Virtual Biennial Meeting of the Society for Research in Child Development (SRCD), April 7-9, 2021.
3. McGowan, A. L., **Chandler, M. C.**, & Pontifex, M. B. (2019). Pupillometric indices of arithmetic approximation in college-aged adults. Verbal presentation at the Mathematical Cognition and Learning Society Conference, June 16-18, 2019, Ottawa, ON, Canada.
4. McGowan, A. L., **Chandler, M. C.**, & Pontifex, M. B. (2019). Aerobic fitness and arithmetic processing in college-aged adults. Verbal presentation at the Canadian Society for Brain, Behavior, and Cognitive Science, June 7-9, 2019, Waterloo, ON, Canada.

Regional:

1. **Chandler, M. C.**, Bloom, J., Fonseca, J., Ramsey, K., DeMaio, V. J., Callahan, C. E., & Register-Mihalik, J. K. (2022). Individual symptom report prevalence in youth with one, two, and three or more persistent symptoms after concussion. Verbal presentation at the Human Movement Science Symposium, April 29, 2022, Chapel Hill, NC.
2. Voisard, K. A. *, McGowan, A. L., **Chandler, M. C.**, & Pontifex, M. B. (2019). Aerobic fitness and arithmetic approximation in college-aged adults. Poster presented at the Michigan State University Undergraduate Research and Arts Forum, East Lansing, MI. *Selected as first-place recipient for poster presentation.*
3. Sokolowski, C. A. *, **Chandler, M. C.**, McGowan, A. L., Brascamp, J. W., & Pontifex, M. B. (2018). Exploring the relationship between aerobic fitness and activation of the locus-

coeruleus. Poster presented at the Michigan State University Undergraduate Research and Arts Forum, East Lansing, MI.

4. **Chandler, M. C.** (2017). Teacher language, executive function, and students' strategy use in memory and mathematics. Poster presented at the UNC Celebration of Undergraduate Research, Chapel Hill, NC.

TEACHING EXPERIENCE

UNDERGRADUATE CORE COURSES

The University of North Carolina at Chapel Hill:

Fall 2022 **Guest Lecturer**, EXSS 180: Physical Activity in Contemporary Society
The University of North Carolina at Chapel Hill

Spoke to two class sections (comprising ~100 total students) about the brain benefits of exercise, specifically in the context of the Physical Activity Guidelines for Americans (2nd Edition).

Spring 2021 **Co-Instructor**, EXSS 181: Sport & Exercise Psychology
The University of North Carolina at Chapel Hill

Co-taught two in-person sections (comprising ~150 total students), including five weeks as the primary instructor. This course examines psychological theories and research and their application to sport/physical activity.

Fall 2021 **Guest Lecturer**, EXSS 181: Sport & Exercise Psychology
The University of North Carolina at Chapel Hill

Spoke to two class sections (comprising ~150 total students) about the field of exercise psychology, the relationship between physical activity, aerobic fitness, and brain health, and considerations for conducting research in this area.

Michigan State University:

2019 – 2021 **Instructor**, KIN 360: Physical Growth & Motor Behavior
Michigan State University

Topics covered in this course include: physical growth and biological maturity as related to motor performance and development; sequential progressions of fundamental motor skills; physical fitness of children and youth; motor abilities; and stages of skill acquisition. Responsible for lecturing on course content, facilitating in-class activities, and creating and grading student assignments and exams.

Semesters taught:

Fall 2019 (in-person)

Fall 2020 (online)

Spring 2021 (online)

| Semester | Students | Instructor Involvement | Student Interest | Student-Instructor Interaction | Course Demands | Course Organization |
|------------|----------|------------------------|------------------|--------------------------------|----------------|---------------------|
| Fall 2019* | N = 54 | 1.4 ± 0.6 | 1.9 ± 0.8 | 1.4 ± 0.6 | 1.6 ± 0.8 | 1.5 ± 0.7 |

Scores range from Superior (1) to Inferior (5); NA – Scores not obtained

*Note: Student evaluations not obtained from Fall 2020 or Spring 2021 semesters due to COVID-19 pandemic.

2017 – 2020 **Lab Instructor/Teaching Assistant***, KIN 173: Foundations of Kinesiology
Michigan State University

This class introduces students to the field of kinesiology through exploration of topics including basic anatomy and physiology, measurement and statistical analysis, and various psychosocial factors and processes related to sport and exercise. Responsible for both lecture- and lab-based instruction on a weekly basis in addition to holding weekly office hours, grading student assignments, and proctoring exams.

***(Head Teaching Assistant Fall 2020)**

Semesters taught:

Fall 2017 (two sections)

Spring 2018 (two sections)

Fall 2020 (two sections; online)

| Semester <i>Section</i> | Total # of Students | Instructor Involvement | Student Interest | Student- Instructor Interaction | Course Demands | Course Organization |
|--------------------------------------|---------------------------|---------------------------|------------------|---------------------------------------|----------------|------------------------|
| Spring 2018* <i>001 & 002</i> | N = 77 | 1.5 ± 0.8 | 1.8 ± 0.9 | 1.6 ± 0.8 | 1.7 ± 0.9 | 1.7 ± 0.9 |
| Fall 2017 <i>001 & 005</i> | N = 80 | 1.6 ± 0.7 | 1.9 ± 0.8 | 1.6 ± 0.7 | 1.9 ± 0.8 | 1.9 ± 0.9 |

Scores range from Superior (1) to Inferior (5); NA – Scores not obtained

*Note: Student evaluations not obtained from Fall 2020 semester due to COVID-19 pandemic.

UNDERGRADUATE ACTIVITY COURSES

Michigan State University:

Instructor, KIN 107E: Tennis I

Semesters taught:

Spring 2018 (two sections; N = 37 students total)

Fall 2017 (N = 28 students)

Instructor, KIN 108R: Indoor Soccer

Semesters taught:

Spring 2018 (N = 20 students)

Instructor, KIN 118E: Volleyball II

Semesters taught:

Fall 2017 (N = 25 students)

MENTORSHIP & TRAINING OF UNDERGRADUATE RESEARCH ASSISTANTS

| | | |
|-----------------------------------|-------------------------------|---------------------------------|
| Maddy Allen ^a | Brandon Henry ^a | Will Shriver ^a |
| Madeleine Barrera ^a | Jeremy Hagerman ^a | Caleb Sokolowski ^a |
| Becca Biltz ^a | Ethan Kosmyna ^a | Logan Swain ^b |
| Macy Bittner ^a | Grace Mansour ^a | Cassie Teixeira ^b |
| Julie Braggs ^a | Mallory Martlock ^a | Bridget Treanor ^{b+} |
| Marie Dickson ^a | Anthony Mrocko ^a | Katie Voisard ^a |
| Summer Dunlap ^b | Amanda Pohl ^a | Kelly Zorn ^a |
| Katelyn Eidenberger ^a | Riley Rampolo ^a | Stacy Vo ^a |
| Mackenzie Eschberger ^a | Laura Scarcelli ^a | Lauren Walkon ^a |
| David Gasser ^a | Parita Shah ^a | Vishrudh Vasudevan ^a |
| Morgan Ham ^a | Stephen Sheppard ^a | |

^aMichigan State, ^bUNC-Chapel Hill, ⁺Served as primary mentor for research experience course credits

MASTER'S THESIS COMMITTEE MEMBERSHIP

2021-23 Lauren Woelffer, Exercise & Sport Science (Athletic Training)
Thesis: "Effectiveness of an Educational Intervention Tool Related to
 Nutritional Concerns in Physically Active Female Young Adults"
 The University of North Carolina at Chapel Hill

SERVICE

Ad hoc Journal Reviewer:

| <u>Year</u> | <u>Impact Factor</u> | <u>Journal Title</u> |
|--------------------|-----------------------------|---|
| 2022 | 6.289 | Medicine & Science in Sports & Exercise |
| 2022 | 2.997 | International Journal of Psychophysiology |
| 2022 | 2.788 | Trends in Neuroscience & Education |
| 2022 | 2.416 | Journal of Athletic Training |
| 2022 | 4.379 | Scientific Reports |
| 2022 | 1.531 | Journal of Clinical Sport Psychology (x2) |
| 2021 | 14.30 | International Review of Sport and Exercise Psychology |
| 2019 | 5.688 | Journal of Clinical Medicine (mentored review) |
| 2018 | 2.668 | Psychophysiology (mentored review) |

Administrative Services to the University:

- 2020 **Poster/Presentation Evaluator for Kinesiology, Nutrition & Food Science**
Mid-Michigan Symposium for Undergraduate Research Experience (Mid-SURE)
Michigan State University
- 2019 **Poster/Presentation Evaluator for Social Sciences**
Mid-Michigan Symposium for Undergraduate Research Experience (Mid-SURE)
Michigan State University

Administrative Services to the Department:

- Fall 2022 **Facilitator**, Visual-Vestibular Concussion Assessment Training
Department of Exercise & Sport Science, UNC-Chapel Hill
- Co-led three trainings for staff athletic trainers and sports medicine physicians on the theoretical background and practical application of visual-vestibular assessment following concussion.
- 2019 – 2020 **Graduate Student Representative**, Faculty Advisory Committee
Department of Kinesiology, Michigan State University
- Served as a liaison between graduate students and kinesiology faculty members via attendance at both committee meetings and department faculty meetings. Provided input in discussions on policy and by-law revisions, curriculum development, faculty searches, fundraising and budgeting, and facility-related concerns.
- 2019 – 2021 **Graduate Student Advisor**, Minorities Ma’KIN Moves
Department of Kinesiology, Michigan State University
- Provided support and guidance to minority-identified Kinesiology undergraduate students in areas ranging from course selection to study skills to information about the graduate school application process.

Community Service:

- Fall 2021 **Invited Guest Speaker**, Discovery Charter School
Durham, NC
Topic: “The Science of Exercise & Brain Health”
- Gave four one-hour presentations to 8th grade science classes about the biological and psychological bases of the effects of exercise on cognition and mental health.
- Summer 2020 **Invited Guest Speaker**, Todd Martin Youth Leadership Academy
Lansing, MI
Topic: “Exercise & Health”
- Spoke to ~50 children ages 5-18 about the importance of exercise for overall health.

Summer 2019 **Invited Guest Speaker, Todd Martin Youth Leadership Academy**
Lansing, MI
Topic: “Healthy Body, Healthy Brain”

Spoke to ~50 children ages 5-18 about the brain benefits of exercise.

Professional Affiliations:

- 2019 – present American College of Sports Medicine (ACSM)
- 2018 – present Society for Psychophysiological Research (SPR)
- 2018 – present North American Society for the Psychology of Sport and Physical Activity (NASPSA)
- 2017 – present Cognitive Neuroscience Society (CNS)
- 2016 – present Psi Chi, The International Honor Society in Psychology

PROFESSIONAL DEVELOPMENT

Seminars & Workshops:

- Sept 2022 **Multi-Level Modeling Workshop**
Odum Institute for Research in Social Science
The University of North Carolina at Chapel Hill
- May 2022 **Integrated Mixed Methods: Bridging Qualitative and Quantitative Methods and Results**
Odum Institute for Research in Social Science
The University of North Carolina at Chapel Hill
- Mar 2022 **Introduction to Qualitative Data Analysis**
North Carolina Translational and Clinical Sciences Institute
The University of North Carolina at Chapel Hill
- Aug 2018 **“ComSciCon-Michigan” Science Communication Workshop**
The University of Michigan
- May 2018 **National Science Foundation “Broader Impacts” Workshop**
Michigan State University

Certifications and Licensures:

- Fall 2022 **Green Zone Training**
Carolina Veterans Resource Center, UNC-Chapel Hill
- Trains members of the Carolina community to know more about the issues and concerns military-connected students face and to identify individuals available to assist this population.
- Summer 2022 **Responsible Conduct of Research Course**
NC Translational and Clinical Sciences Institute (NC TraCS)
NIH Clinical and Translational Science Awards Program at UNC-Chapel Hill
- Fall 2021 **Responsible Conduct of Research Training for Postdoctoral Scholars**
Office of Postdoctoral Affairs, UNC-Chapel Hill
- Summer 2020 **Micro-Credential in Online College Teaching**
Michigan State University College of Education
- 2015 – present **CITI Human Subjects Research Training**
- 2014 – present **American Red Cross Adult and Pediatric First Aid/CPR/AED**
-