

Alesha Fleming, D.C.

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Education

Mercer University, College of Liberal Arts, Macon, GA <i>Bachelor of Science in Biology, Chemistry Minor, Pre-Medical Track</i>	8/2008 - 5/2012
Mercer University, College of Liberal Arts, Macon, GA <i>Bachelor of Arts in German</i>	8/2008 - 5/2012
Palmer College of Chiropractic, Florida Campus, Port Orange, FL <i>Doctor of Chiropractic</i>	7/2012 - 9/2015
Clinical Neurosciences Institute Neurology Diplomate Program (Projected completion: 12/2028)	12/2024 - present

Appointments and Professional Experience

- **Natural Health and Wellness Chiropractic, LLC** 12/01/2015 - present
Owner and Practicing Chiropractic Physician
- **Embry-Riddle Aeronautical University** 8/12/2020 – 8/12/2025
Team Chiropractic Physician for Embry-Riddle Athletics
- **Embry-Riddle Aeronautical University** 03/2022 - present
Aerospace Physiology Program Coordinator
- **Embry-Riddle Aeronautical University** 08/09/2025 - present
Associate Professor of Anatomy & Physiology
- **Embry-Riddle Aeronautical University** 01/09/2019 – 08/09/2025
Assistant Professor of Anatomy & Physiology
- **Palmer College of Chiropractic, Florida** 10/2019 – 12/2021
Adjunct Professor - Preceptor for Senior Student Interns
- **Embry-Riddle Aeronautical University** 8/28/2017 -12/31/2018
Adjunct Professor of Biology I & II and Anatomy & Physiology I & II
- **Herzing University** 5/01/2016 - 6/21/2017
Adjunct Professor of Anatomy and Physiology I & II

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Original Course Development - Undergraduate

- **Foundations of Biology I – Lecture and Laboratory** Fall 2018
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Anatomy and Physiology I – Lecture and Laboratory** Fall 2019
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Anatomy and Physiology II – Lecture and Laboratory** Spring 2019
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Behavioral Neuroscience I – Lecture** Fall 2020
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Behavioral Neuroscience II – Lecture** Spring 2020
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Neurotoxicology – Lecture** Spring 2024
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
 - **Death and Dying – Lecture** Summer 2024
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
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Original Course Development – Graduate (Master's Level)

- **Special Topics: Biomedical Engineering Elements of Anatomy and Physiology I** Fall 2018 & 2022
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology
- **Special Topics: Biomedical Engineering Elements of Anatomy and Physiology II** Spring 2019 & 2023
Embry-Riddle Aeronautical University | Department of Human Factors and Behavioral Neurobiology

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Professional Recognitions and Achievements

- **American Association of Medical Assistants** 5/8/2018 - present
Approved Continuing Education Speaker
Original CE Courses:
 - *Opioids and Antibiotics: When Groundbreaking Medical Advances Have Deadly Consequences*
 - *Are You Shooting Up? Adult Vaccinations – A Different Perspective*
- **Embry-Riddle Aeronautical University, Dept. of HFBN** Spring 2022
Teacher of the Year
- **Embry-Riddle Aeronautical University, College of Arts and Sciences** Fall 2023
Teaching Excellence Award

Committees and Board Memberships

- **Embry Riddle Aeronautical University** 8/2020 – 6/2021
Institutional Review Board – Alternate Member
- **Embry Riddle Aeronautical University** 6/2021 - present
Institutional Review Board – Full Member
- **Embry Riddle Aeronautical University – Department on Human Factors** 1/2019 - present
Life Sciences Equipment Committee
- **Embry Riddle Aeronautical University – Department on Human Factors** 1/2019 - present
Pre-Health Advisement Committee
- **Embry Riddle Aeronautical University – Department on Human Factors** 1/2019 - present
Aerospace Physiology Curriculum Committee
- **Embry-Riddle Aeronautical University – Department on Human Factors** 8/2019 - present
Travel Committee Member

Additional Experience

- **Embry-Riddle Aeronautical University** 1/2018 – 8/2024
Supervisor for Biological Sciences Supplemental Instruction & Tutoring
- **HOSA Chapter at Embry-Riddle Aeronautical University** 9/2021- present
Faculty Advisor
- **Embry-Riddle Aeronautical University - Department on Human Factors** 8/2020 – present
Pre-Health Advisor

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- **Embry-Riddle Aeronautical University** 8/2023 - present
Aerospace Physiology Internship Coordinator
- **German Club at Embry-Riddle Aeronautical University** 12/2022 – present
Faculty Advisor
- **MediFutures at Embry-Riddle Aeronautical University** Spring 2023 – present
Faculty Advisor
- **Riddle Riders Motorcycle Club at Embry-Riddle Aeronautical University** 12/2022 – present
Faculty Advisor
- **National Council on Undergraduate Research 2023** Fall 2023
Abstract Reviewer

Research, Reviews, and Publications

- **International Conference of Computational Methods for Coupled Problems in Science and Engineering**
Abstract Submitted: Joint Contact Pressure on Healthy and Dysplastic Infant Hips during the Barlow Maneuver
Christina M. Zlock, Liam D. Donohue, Alesha Fleming, and Victor Huayamave. Spring 2022
- **Summer Biomechanics, Bioengineering and Biotransport Conference**
Abstract Accepted: Temporomandibular Joint Dysfunction (TMJD). Christopher N. Barnes, Jorge M. Pumachagua, and Elias P. Saliba. Faculty Advisors: Victor A. Huayamave and Alesha Fleming. Spring 2023
- **NASA NSPIRES Grant Proposal – Not Awarded**
Subject-Specific Computational Modeling of Pathophysiological Adaptations following Musculoskeletal Deconditioning via Advanced-Design Mechanical Stimuli
PI: Christine Walk Col: Amber Paul and Alesha Fleming. Spring 2022
- **National Science Foundation RaMp Grant Proposal – Not Awarded**
Subject-Specific Research and Mentoring for Postbaccalaureates in Biological Sciences (RaMP) NSF 23-514
PI: Foram Madiyar Col: Amber Paul and Alesha Fleming. Spring 2023
- **American Journal of Chiropractic Medicine**
Submission Accepted: Resolution of resting tremors and cervical radiculopathy following chiropractic treatment in a 58-year-old male with cervical kyphosis: A Case Report with Two-Year Follow Up
Authors: Alesha Fleming, Kendyl Taylor, Romeia Al-Hajeri, Thomas Young, Fall 2025
- **Neuroscience, Oxford University Press, 7th Edition. Publication Date: March 2023** 11/2021
Edited by George J. Augustine, Jennifer M. Groh, Scott A. Huettel, Anthony-Samuel LaMantia, Leonard E. White, and Emeritus Purves
Reviewer for Chapters: 12: The Somatosensory System; 13: Pain; and 15: Taste

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Student Research Mentorship

- **Thesis:** “The Development of a Preliminary Computational Infant Musculoskeletal Model for Biomechanical Analysis of Infant Movement” By Yeram Lim (2021)
Faculty Mentor and Thesis Defense Committee Member
- **Thesis:** “Joint Contact Pressure on Healthy and Dysplastic Infant Hips during the Barlow Maneuver” Christina Zlock (2022)
Faculty Mentor and Thesis Defense Committee Member
- **Student-Led Research Project:** “VO2 Max Determination: A Comparison amongst two Graded Exercise Test (GXT) Methods of VO2 max Determination in Collegiate Cross Country Runners using a Verification Testing Protocol” Calahan Warren (2020)
Faculty Mentor
- **Student-Led Research Project:** “Diminished Neuronal Function Resulting After Radiation Exposure” Michael Guldin (2019)
Faculty Mentor
- **Student-Led Research Project:** “The Effects of Finasteride on Parity in Female Drosophila Melanogaster” Trey Bruno, Carly Turner, Carol Mitchel, Michael Guldin, Dominic Sandell (2022 - 2024)
Faculty Mentor
Funded by Spark Grant in 2022, 2023 (\$970), 2024
- **Student-Led Research Project:** “Relationship identification between triggers and changes in the brain and the overall human physiology during migraines” Dominic Sandell (2024 - 2025)
Faculty Mentor
Funded by Ignite Grant in 2025 (\$5,275)

Areas of Interest & Expertise

- *Behavioral Neuroscience with focus on happiness, motivation, and performance*
- *Motivational Speaking with emphasis on management and success in business*
- *Natural and preventative health and wellness*
- *Nutrition and fitness*