Curriculum Vitae of Dale A. Ritter

1. Name, position, department

Dale A. Ritter, PhD
Morphology Course Director and Senior Lecturer in Biology
Department of Ecology and Evolutionary Biology

2. Home Address

74 Nekick Rd
E Greenwich, RI 02818

3. Education

August 30, 1990 B.S. Zoology, Auburn University, Auburn, Alabama

August 12, 1992 M.S. Biology, Northern Arizona University, Flagstaff, Arizona

May 25, 1998 Ph.D. Biology, Brown University, Providence, Rhode Island
Dissertation title: Axial muscle function in the locomotion of lower tetrapods and the evolution of vertebrate terrestrial locomotion

4. Professional appointments

1989-90 Teaching Assistant, Introductory and Animal Biology, Auburn University.

1990-92 Teaching Assistant, Comparative Vertebrate Anatomy and Introductory Zoology, Northern Arizona University. Research Assistant to Dr. Kiisa Nishikawa, Northern Arizona University.

1992-1997 Teaching Assistant, Human Morphology, Brown University Medical School. Research Assistant to Dr. David Carrier, Brown University.

1997 Instructor, Introductory Biology, Wheaton College

1997-1998 Post-Doctoral Fellow, Dept. of Neurobiology, SUNY-Stony Brook
Advisor: Dr. Joseph Fetcho (now at Cornell)

1998-2001 Assistant Professor of Biology, Heidelberg College

2001-2006 Morphology Course Coordinator
Brown University

2006-2012 Morphology Course Director and Lecturer in Biology,
Brown University

2012-present Morphology Course Director and Senior Lecturer in Biology
Brown University

5c. Completed refereed journal articles

Ritter, D.A. (1992). Lateral bending during lizard locomotion. *Journal of experimental Biology*. **173**, 1-10.

Ritter, D.A. and Nishikawa, K. (1995). The kinematics and mechanisms of prey capture in the African pig-nosed frog (*Hemisus marmoratum*): description of a radically divergent anuran tongue. *Journal of experimental Biology*. **198**, 2025-2040.

O'Reilly, J.C. and Ritter, D.A. (1995). Observations on the birth of a caecilian (Amphibia: Gymnophiona). *Herpetological Natural History*. **3**, 199-202.

Ritter, D.A. (1995). Epaxial muscle function during locomotion in a lizard (*Varanus salvator*) and the proposal of a key innovation in the vertebrate axial musculoskeletal system. *Journal of experimental Biology*. **198**, 2477-2490.

Ritter, D.A. (1996). Evolution of the axial musculoskeletal system. *Medicine and Health / Rhode Island*. **79**, 20-21.

Ritter, D.A. (1996). Axial muscle function during lizard locomotion. *Journal of experimental Biology*. **199**, 2499-2510.

O'Reilly, J.C., Ritter, D.A., and Carrier, D.R. (1997). Hydrostatic locomotion in a limbless tetrapod. *Nature*. **386**, 269-272.

O'Reilly, J.C., Summers, A.P., and Ritter, D.A. (2000). The evolution of the function of the trunk muscles during locomotion in adult amphibians. *American Zoologist* **40**: 123-135.

Ritter, D.A., Nassar, P.N., Fife, M., and Carrier, D.R. (2001) Epaxial muscle function in trotting dogs. *Journal of experimental Biology*. **199**, 2499-2510.

Hale, M.E., Ritter, D.A., and Fetcho, J.R. (2001) A confocal study of spinal interneurons in living larval zebrafish. *J. Comp. Neurol*. **437**: 1-16.

Ritter, D.A., Bhatt, D.H., and Fetcho, J.R. (2001) In vivo imaging of zebrafish reveals differences in the spinal networks for escape and swimming movements. *J. Neuroscience*. **21**: 8956-8965.

Valente, J.H., Lemke, T., Ridlen, M., Ritter, D.A., Clyne, B., and Reinert, S. (2005) Aluminum foreign bodies – do they show up on X-ray? *Emergency Radiology*. **12**: 30-33

Rougas, S.C., Rusley, J.C., Young, B.R., Romain, C.V., Lambrese, J.V., Dollase, R., Monroe, A.D., and Ritter, D.A. (2008) Development of a student-based teaching academy. *Medicine and Health Rhode Island*. **91**: 252-255

Brainerd, E.L., Moritz, S., and Ritter, D.A. (2016) XROMM analysis of rib kinematics during lung ventilation in the green iguana, *Iguana iguana. Journal of Experimental Biology* **219**: 404-411

Jedrzejewski, B., and Ritter, D.A. (2016) A demographic exploration of whole body donors at the Alpert Medical School of Brown University. *Rhode Island Medical Journal*. **99:** 37-39

7i. Service to the university

Medical Committee on Academic Standing and Professionalism
Curriculum Committee of the Medical School
Curriculum Content Working Group (pre-clinical curriculum) of the Medical School
Operations and Safety Committee for Alpert Medical School Facilities

I'm also variously involved in the medical school student recruitment process by facilitating and taking part in tours of the medical school facilities (the anatomy lab specifically) by prospective students.

7ii. Service to the profession

Manuscript Reviewer:
Journal of Experimental Biology
Journal of Experimental Zoology

I have also reviewed multiple textbook chapters (human anatomy textbooks)

I arrange and facilitate the use of the anatomy laboratory for use by various members of the medical school faculty. For the last three years (and in the coming year) faculty and residents from OB/GYN use the lab space for a surgical skills workshop, and for many years the department of emergency medicine has held a 2-3 day workshop in the lab space for skills development for their first-year residents. I also work with individual residents and groups of residents from several surgical specialties to assist in their training and education.

7iii. Service to the community

Educational outreach: Every year I facilitate and participate in visits to the anatomy lab by hundreds of high school and college students (in 2010 I stopped counting at 500). In any given year I work with 6-8 local high school teachers that visit the anatomy lab as a "capstone" experience for their anatomy and physiology courses. Visits to the anatomy lab are also the highlights of several Brown pre-college summer courses. I also host visits from local 2-year college students who are in pre-health programs such as dental hygiene and nursing, as well as Biology students from 4-year colleges. Each of these visits is tailored to the individual groups and may include demonstrations of cadaveric anatomy, imaging (x-ray, CT, MRI) and physiology demonstrations.

8. Academic Honors

Recipient of the Deans excellence teaching award: 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2017, 2018
Instructor of the Year Award, Bryant PA class of 2017

9. Teaching

2018-2019
BIO 364, Human Morphology, 146 students
BIO 365, Human Morphology II, 146 students
PATH 601, Human Morphology II, 9 students
PA 503, Human anatomy for Bryant PA students, 47 students

2017-2018
BIO 364, Human Morphology, 147 students
BIO 365, Human Morphology II, 147 students
PATH 601, Human Morphology II, 20 students
PA 503, Human anatomy for Bryant PA students, 48 students

2016-2017
BIO 364, Human Morphology, 148 students
BIO 365, Human Morphology II, 148 students
PATH 601, Human Morphology II, 24 students
PA 503, Human anatomy for Bryant PA students, 43 students

2015-2016
BIO 364, Human Morphology, 150 students
BIO 365, Human Morphology II, 150 students
PATH 601, Human Morphology II, 24 students
PA 503, Human anatomy for Bryant PA students, 37 students

2014-2015
BIO 364, Human Morphology, 128 students
PATH 601, Human Morphology II, 20 students
PA 503, Human anatomy for Bryant PA students, 32 students

2013-2014
BIO 364, Human Morphology, 120 students
PATH 601, Human Morphology II, 14 students

2012-2013
BIO 364, Human Morphology, 120 students
PATH 601, Human Morphology II, 15 students

2011-2012
BIO 364, Human Morphology, 110 students
PATH 601, Human Morphology II, starts in February

2010-2011
BIO 364, Human Morphology, @100 students

PATH 601, Human Morphology II, 25 students

2009-2010
BIO 364, Human Morphology, @100 students
PATH 601, Human Morphology II, 4 students

2008-2009
BIO 364, Human Morphology, @100 students
PATH 601, Human Morphology II, 4 students

Summer 2018, 2017, 2016
CEBI 10063, Introduction to Medicine, Do you want to be a doctor?
Co-taught with Dean Juli Ip, through Brown School of Professional Studies
Non-credit, 3 week summer course for students interested in the medical field.

Summer, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008
CEBI 0905, The Body: Introduction to Human Anatomy and Physiology.
Taught through Brown School of Professional Studies
Non-credit, 3 week summer anatomy course with laboratory for high school students.

Summer 2018, 2017, 2016, 2015, 2014, 2013, Spring 2012, Fall 2011, Summer 2011, Spring 2011
CEBI 0934, Body at Work: Anatomy, Physiology and Disease.
Taught through Brown School of Professional Studies
Non-credit, 4 week on-line course for high school students.