

John L. Dobson, Ph.D.
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Educational Background

- 1998 – 2001 Auburn University
Doctor of Philosophy in Exercise Physiology
Department of Health and Human Performance
Dissertation Advisor: L. Bruce Gladden
Dissertation: The Effect of Rhythmic Tetanic Skeletal Muscle Contractions
on Peak Muscle Perfusion
- 1996 – 1998 Auburn University
Master of Education in Exercise Science, Exercise Physiology concentration
- 1992 – 1996 Gettysburg College
Bachelor of Arts in Education, Exercise Science major

Teaching Experience

- 2013-Present Georgia Southern University
Assistant Professor
School of Health and Kinesiology; Chair: Head: Jim McMillan
KINS 3541 – Structural Kinesiology
KINS 3542 – Physiological Aspects of Exercise
KINS 7230 – Exercise Physiology
KINS 7231 – Laboratory Techniques in Exercise Physiology
KINS 7236 – Cardiopulmonary pathophysiology and ECG Interpretation
- 2011-2013 Georgia Southern University
Temporary Assistant Professor
Dept. of Health and Kinesiology; Chair: Jim McMillan (2012-present), Barry Joyner (2011-2012)
KINS 2531 – Anatomy and Physiology I
KINS 3131 – Biophysical Foundations of Human Movement
KINS 3133 – Physiological Aspects of Exercise
KINS 4231 - Fitness Evaluation and Exercise Prescription
- 2005-2011 University of Florida
Senior Lecturer (2007-2011) and Lecturer (2005-2007)
Applied Physiology Dept; Chair: Mike Delp (2007-2011), Steve Dodd (2005-2007)
APK 2105 - Human Physiology
APK 2135 – Integrated Fitness Programming
APK 3110 - Physiology of Exercise
APK 3115 - Strength and Conditioning
PET 3361 – Sports Nutrition
APK 4112 – Advanced Exercise Physiology
APK 4120 – Clinical Exercise Physiology
APK 4125 - Fitness Assessment and Exercise Prescription
APK 6116 – Physiology of Exercise and Sport
HLP 6515 – Evaluation Procedures
APK 7105 - Environmental Stress Physiology

- 2003-2005 College of Charleston
 Assistant Professor
 Department of Physical Education and Health
 Department Head: Tom Langley
 Teaching Responsibilities
 PEHD 210 Concepts in Fitness Assessment and Exercise Prescription
 PEHD 340 Exercise Physiology and Lab
- 2001 - 2003 University of Florida
 Visiting Assistant Professor
 Exercise and Sport Science Department
 Department Head: Robert Singer (2001-2002) and Scott Powers (2002-2003)
 Teaching Responsibilities
 PET 2350 - Applied Human Physiology
 PET 3351 - Physiology of Exercise
 PET 3771 - Personal Fitness Teaching Methods
- 1999 - 2000 Auburn University
 Graduate Assistant Teacher
 Supervisor: Dr. Dennis Wilson
 Teaching Responsibilities
 HHP 405 - Physiology of Exercise
 PHED 101 – Physical Fitness and Health Appraisal
 HHP 150 – Intermediate swimming

Published Peer Reviewed Articles:

- Dobson, J.L., Linderholm T. Self-testing promotes superior retention of anatomy and physiology information. *Advances in Health Sciences Education*, 20: 149-161, 2015.
- Dobson, J.L., Linderholm T. The effect of selected “desirable difficulties” on the ability to recall anatomy information. *Anatomical Sciences Education*, DOI: 10.1002/ase.1489, 2014.
- Dobson, J. L., McMillan, J., & Li, L. Benefits of exercise intervention in reducing neuropathic pain. *Frontiers in Cellular Neuroscience*, 8, 102, 2014.
- Dobson, J.L. Retrieval practice is a efficient method for enhancing the retention of anatomy and physiology course information. *Advances in Physiology Education*, 37: 184-191, 2013.
- Dobson, J.L. The effect of uniform versus expanding retrieval practice on the recall of physiology information. *Advances in Physiology Education*, 36: 6-12, 2012.
- Dobson, J.L. The effect of selected “desirable difficulty” learning strategies on the retention of physiology information. *Advances in Physiology Education*, 35: 378-383, 2011.
- Grassi, B., Rossiter, H.B., Hogan, M.C., Howlett, R.C. Harris, J.E., Goodwin, M.L. , Dobson, J.L. and Gladden, L.B. Faster O₂ uptake kinetics in canine skeletal muscle in situ after acute creatine kinase inhibition. *Journal of Physiology* 589: 221-233, 2011.
- Dobson, J.L. A comparison between learning style preferences and gender, status and course performance. *Advances in Physiology Education* 34:197-204, 2010.
- Dobson, J.L. Learning style preferences and course performance in an undergraduate physiology course. *Advances in Physiology Education* 33: 308-314, 2009.

Dobson, J.L. Evaluation of a Virtual Physiology of Exercise Laboratory Program. *Advances in Physiology Education* 33: 335-342, 2009.

Dobson, J.L. The use of formative online quizzes to enhance class preparation and scores on summative exams. *Advances in Physiology Education* 32: 297-302, 2008.

Dobson, J.L. and Gladden, L.B. The effect of rhythmic skeletal muscle contractions on peak muscle perfusion. *Journal of Applied Physiology* 2003 94: 11-19.

Aschenbach, W.G., Brower, G.L., Talmadge, R.J., Dobson, J.L. and Gladden, L.B. Effect of myocardial volume overload on lactate transport in skeletal muscle sarcolemmal vesicles. *American Journal of Physiology* 2001 281: R176-R186.

Peer Reviewed Articles Currently In Press:

Buckley, T., Dorrien, J., Dobson, J., Langdon, J., & Graham, V. No relationship between concussion history and functional movement screen performance. In Press in *Athletic Training & Sports Health Care*.

Dobson, J., Linderholm, T., & Yarbrough, M.B. Self-testing produces superior recall of both familiar and unfamiliar muscle information. In Press in *Advances in Physiology Education*.

Peer Reviewed Articles Currently Under Review:

Hemmings, T., Kendall, K., & Dobson, J. Identifying dosage effect of LEDT on muscular fatigue in quadriceps. Under Review in the *Journal of Strength and Conditioning Research*.

Presentations At Refereed Conferences:

International/National Presentations

Dobson, J.L. (2015, May). Capitalizing on the Testing Effect to Enhance Learning in Kinesiology Courses. Presented at the annual American College of Sports Medicine meeting, San Diego, CA.

Dobson, J.L., Yarbrough, M.B. (2015, March). Self-testing produces superior recall of both familiar and unfamiliar muscle information. Presented at the annual Experimental Biology meeting, Boston, MA.

Dobson, J.L. (2015, March). Capitalizing on the Testing Effect to Enhance Learning in Kinesiology Courses. Presented at the Annual SoTL Commons: A Conference for the Scholarship of Teaching and Learning, Savannah, GA.

Dobson, J.L. (2014, May). Self-testing Promotes Superior Retention of Kinesiology Information. Presented at the annual American College of Sports Medicine meeting, Orlando, FL.

Dobson, J.L. (2014, April). Retrieval Practice Promotes Superior Retention of Kinesiology Information. Presented at the annual Experimental Biology meeting, San Diego, CA.

Dobson, J.L. (2013, April). Testing is a superior method of learning anatomy and physiology information. Presented at the annual Experimental Biology meeting, Boston, MA.

Sturges, D., Maurer, T.W., Dobson, J. (2012, May). Allied health students' perceptions of learning in undergraduate human anatomy and physiology classes. *International Journal of Arts and Sciences*, American Canadian Conference for Academic Disciplines, Toronto, Canada.

Dobson, J.L. (2012, April). Expanding versus uniform retrieval practice and the recall of physiology information. Presented at the annual Experimental Biology meeting, San Diego, CA.

Dobson, J., Sturges, D., Maurer, T. (2012, April). Student perceptions of meaningful learning in Human Anatomy and Physiology classes. Presented at the annual Experimental Biology meeting, San Diego, CA.

Sturges, D., Maurer, T., Dobson, J. (2012, March). Student perceptions of meaningful learning in Human Anatomy and Physiology classes. Presented at the Annual SoTL Commons: A Conference for the Scholarship of Teaching and Learning, Statesboro, GA.

Dobson, J.L. (2012, March). “Desirable difficulties” and the recall of physiology information. Presented at the Annual SoTL Commons: A Conference for the Scholarship of Teaching and Learning, Statesboro, GA.

Dobson, J.L. (2011, April). The effect of selected “desirable difficulty” learning strategies on retention of physiology information. Presented at the annual Experimental Biology meeting.

Dobson, J.L. (2010, April). *Investigation of the Virtual Exercise Physiology Laboratory program*. Presented at the annual Experimental Biology meeting.

Harris, J.E., Grassi, B., Rossiter, H.B., Hogan, M.C., Goodwin, M.L., Dobson, J.L. and Gladden, L.B. (2007, May). *Skeletal muscle function with acute creatine kinase inhibition*. Presented at the annual Experimental Biology meeting.

Grassi, B., Hogan, M.C., Rossiter, H.B., Howlett, R.A., Harris, J.E., Goodwin, M.L., Dobson, J.L. and Gladden, L.B. (2006, June) *Effects of acute creatine kinase inhibition on skeletal muscle O₂ uptake kinetics*. Presented at the annual meeting of the American College of Sports Medicine.

Gladden, L.B., Hogan, M.C., Kelley, K.M., Dobson, J.L. and Grassi, B. (2002, June). *Metabolic response time of canine skeletal muscle*. Presented at the annual meeting of The American College of Sports Medicine.

Dobson, J.L. and Gladden, L.B. (2002, June) *The Effect of Rhythmic Tetanic Skeletal Muscle Contractions On Peak Muscle Perfusion*. Presented at the annual meeting of the American College of Sports Medicine.

Regional Presentations

Sturges, D., Maurer, T., Dobson, J. (2012, March). Student perceptions of meaningful learning in Human Anatomy and Physiology classes. Presented at the Human Anatomy and Physiology Society Regional Meeting, Florida State College, Jacksonville, FL.

Dobson, J.L. and Gladden, L.B. (2000, January). *Relationship Between Plasma and Whole Blood Lactate Concentrations In Various Exercise Protocols*. Presented at the annual meeting of the Southeast American College of Sports Medicine.

University Presentations

Dobson, J.L., Linderholm, T. (2014, April). Capitalizing on the “testing effect” to enhance learning in anatomy and physiology courses. Presented at the Georgia Southern University Research Symposium. Statesboro, GA.

Internal Grants:

Virtual Exercise Physiology Laboratory Activities. Funded for 2007-2008 academic year. Principal investigator. University of Florida Faculty Development Technology Grant (\$10,000 funded).

Metabolic Gas Analysis System. Funded for the 2004-2005 academic year at the College of Charleston. Principal investigator. College of Charleston’s Office of the Provost Equipment Grant (\$25,000 funded).

Awards:

Georgia Southern University SoTL Fellowship Award, 2014.

Teacher of the Year at the University of Florida, 2011.

American Physiological Society's Teaching of Physiology Research Recognition Award, 2011.

Teacher of the Year in the College of Health and Human Performance, 2011.

American Physiological Society's Teaching of Physiology New Investigator Award, 2010.

Teacher of the Year in the College of Health and Human Performance, 2008.

Professional Development:

Completed Office of Institutional Effectiveness *Academic Assessment Retreat* (2015, May)

Completed CT₂ *Academic Assessment Retreat* (2013, June)

Completed CT₂ *Rubric Workshop* (2013, February)

Attended Center for Teaching and Learning seminar *How Learning Works* (2013, January)

Membership in Professional Organizations

Interdisciplinary STEM Institute Affiliate Member, 2012-present.

American Physiological Society Regular Member, 2009-present.

American College of Sports Medicine, 1999-present.

Service:

National Service

- Chair, Featured Topic session at the 2014 Experimental Biology meeting in San Diego, CA. The title of the session was Using Retrieval Practice and Other Advances From Cognitive Science to Enhance Student Learning.
- Reviewer – *Advances in Physiology Education* – 5 articles
 - *Advances in Health Sciences Education* – 1 article
 - *Medicine and Science in Sports and Exercise* – 2 articles

University Service

- Member, Georgia Southern University Medical Board, 2015-present.
- Member, Georgia Southern University Institutional Review Board, 2013-present.
- Member, University of Florida faculty Senate, 2010-2011.
- Member, University of Florida Course Management Governance Committee, 2009-2011.
- Member, University of Florida LBGT Committee, 2006-2011.

- Member, Ad Hoc University of Florida Course Management Selection Committee, 2008-2009.
- University of Florida Minority Mentor, 2008-2009.

College/Department Service

- Member, College of Health and Human Sciences Curriculum Committee, 2013-present.
- Coordinator of the GSU Graduate Exercise Science Program, end of 2014-present.
- Coordinator of the GSU Undergraduate Exercise Science Program, 2012-present.
- Chair, College of Health and Human Performance Curriculum Committee, 2005-2011.
- Member, College of Health and Human Performance Petitions Committee, 2005-2011.
- Chair, Department of Applied Physiology and Kinesiology Curriculum Committee, 2005-2011.
- Coordinator, APK 2105 Applied Human Physiology courses, 2005-present. This position involves: a) identifying, managing and evaluating all class teaching assistants, b) ordering material and supplies for the physiology lab, c) updating and maintaining the course materials used in all lecture sections of the class and d) orienting and coordinating the other professors that teach the course.
- Member, Ad Hoc College of Health and Human Performance Committee on Placement of Advising, 2006-2007.
- Member, Ad Hoc Department of Applied Physiology and Kinesiology Faculty Governance Committee, 2006-2007.
- Author and Coordinator, APK 2105 Applied Human Physiology lab changes, 2006-2007. Created and implemented significant changes to all of the lab components of the class, including: expanded the content and duration of the labs by 50%, incorporated virtual laboratory programs and developed an extensive series of online assessments to test the student's lab progress.
- Author, Department of Applied Physiology and Kinesiology's Student Learning Outcomes (SLOs), as well as the questions used to assess those SLOs on all internship evaluation forms, 2005-2006. These outcomes were requested by the state legislature and are listed in the University's online Undergraduate Catalogue.
- Member, Ad Hoc Department of Applied Physiology and Kinesiology Faculty Search Committee: Lecturer of Applied Physiology and Kinesiology Department, 2005-2006.
- Co-Author, Department of Applied Physiology and Kinesiology's new course codes, 2005-2006.
- Member, College of Charleston's Department of Physical Education and Health Curriculum Committee, 2003-2005.
- Author, College of Charleston's Office of The Provost grant that completely funded the purchase of a new Parvo Medics' TrueOne® 2400 metabolic gas analysis system for the Department of Physical Education and Health, 2005.
- Author, extensive revisions to the College of Charleston's Exercise Science Concentration curriculum, including the development of two new senior-level courses, 2004-2005.
- Member, College of Charleston' School of Education Workload Committee, 2003-2004.