

Suzanne Sawyer Vincent, Ph.D.

Education

Physiology and Biophysics, Ph.D., University of Washington, Seattle
Physiology and Behavioral Biology, M.A., San Francisco State University
Biology, B.A., University of California, Santa Cruz

Certification:

Senior Fitness Instructor, 2003 - Present, American Senior Fitness Association, New Smyrna Beach, FL

Professional Positions

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| 7/01 – Present | Associate Professor , Dept. of Biology and Chemistry, Oral Roberts University, Tulsa, OK |
| 8/00 – 12/00 | Adjunct Faculty , Physical Therapy Program, Maryville University, School of Liberal Arts and Professional Programs, St. Louis, MO |
| 1/98 - 7/00 | Postdoctoral Fellow in Rehabilitation Research , Center for Psychiatric Rehabilitation, Boston University, Fellowship funded by NIDRR (Received Certificate of Advanced Graduate Studies in Rehabilitation Counseling) |
| 8/94 - 12/97 | Associate Professor, and Supervisor of Clinical Tutors Program in Neuroscience , Dept. of Physiology/Neuroscience, St. George's University School of Medicine, Grenada, West Indies |
| 2/90 - 7/94 | Associate Professor , Dept. of Physical Therapy, Texas Tech University School of Allied Health, Lubbock, TX |
| 6/89 - 2/90 | Assistant Professor , Dept. of Physiology, Oral Roberts University School of Medicine, Tulsa, OK (Gave visiting lectures and labs on muscle in Jan. 1989) |
| 8/86 - 5/89 | Assistant Professor , Joint appointment in Depts. of Kinesiology, and Physiology and Biophysics, University of Illinois at Urbana-Champaign, IL |
| 8/85 - 8/86 | Visiting Assistant Professor , Dept. of Exercise Science and Physical Education, University of Iowa, Iowa City, IA |
| 9/84 - 7/85 | Visiting Assistant Professor , Dept. of Biology, St. Lawrence University, Canton, NY |
| 9/82 - 8/84 | Postdoctoral Fellow in Neurogerontology , Geriatric Research, Education and Clinical Center, VA Medical Center, Minneapolis, Postdoctoral Fellowship funded by NIH |
| 2/75 - 9/76 | Research Technician , Division of Allergy, Immunology and Infectious Disease, Palo Alto Medical Research Foundation, Palo Alto, California |

Teaching Experience

Dept. of Biology & Chemistry, Oral Roberts University

Human Physiology with Lab, Human Anatomy with Lab, Neuroscience with Lab, Scientific Terminology, General & Comparative Physiology with Lab

Dept. of Biology, Maryville University, St. Louis, MO

Advanced Physiology for Physical & Occupational Therapy students

Dept. of Physiology/Neuroscience, St. George's University School of Medicine

Neuroscience with Neuroanatomy lab

Physical Therapy and Occupational Therapy Programs, Texas Tech University School of Allied Health
Human Physiology with lab
Human Neuroscience with lab

Depts. of Kinesiology and Physiology, University of Illinois at Urbana-Champaign, IL
Neuromuscular Aspects of Human Performance
Neurophysiological Bases of Therapeutic Exercise

Dept. of Exercise Science and Physical Education, University of Iowa, Iowa City, IA
Honors Exercise Physiology with lab (team-taught), Exercise Physiology for Practitioners with lab

Dept. of Biology, St. Lawrence University, Canton NY
Vertebrate Physiology with lab
Advanced Physiology with lab

Publications

16 Publications in Referred Journals
24 Abstracts

(In 1996 my name changed from Suzanne S. Palmer to Suzanne S. Vincent.)

Barber J, Nole M, Vincent S. 2011. Performance on 8-ft. up-and-go test improved after use of Dynavec multidimensional machine in elderly. *Proceedings of the Oklahoma Academy of Science* 91:45-46.

Vincent, SS. 2011. Tribute to Heinrich Lissauer: Breakthroughs made in a short life. *Neuroscience 2011*. Washington DC.

Vincent, SS and Miller KE. 2011. Extent of Lissauer's tract in cross sections of rat lumbar spinal cord delineated using protein markers peripherin, VGLUT2, CGRP, and IB4. *Neuroscience 2011*. Washington DC.

Vincent, SS. 2007. Evo-devo theory contingent on embryogenesis exhibiting variation and adaptation." 82nd Annual AAAS-SWARM Meeting, University of Houston-Clear Lake Campus, April 18-21.

Vincent SS, Sherman K, Jack L. 2006. Comparison of postural measurements in older adults. 81st Annual AAAS-SWARM Meeting, Tulsa, OK, April 6-8, 2006.

Vincent SS. 2005. Is it aging or disability that compromises the lifestyle of the older person? 27th Annual Partnerships for Aging Conference, Indianapolis, Indiana, Nov. 17-19, 2005.

Vincent SS. 2004. Benefits of exercise for the older adult. 26th Annual Partnerships for Aging Conference, Kansas City, MO, Nov. 10-12, 2004.

Vincent SS, Soucy I. 2005. Benefits of strengthening and stretching exercises from the *National Institute on Aging Exercise Program* for adults 50-plus years on fitness, posture, balance, and well-being. In: Jones GR, Taylor AW, Ecclestone NA, editors. *Research to Action for an Aging Society, Official Proceedings of 6th World Congress on Aging and Physical Activity*. London, Ontario: Canadian Centre for Activity & Aging.

Vincent, S.1999. Using findings from qualitative research to teach mental health professionals about the experience of recovery from psychiatric disability. *Harvard Graduate School of Education Fourth Annual Student Research Conference Program*, p.10, 1999

Palmer SS, Hutton JT. 1995. Postural finger tremor exhibited by Parkinson patients and age-matched subjects. *Movement Disorders* 10:658-663.

Butler CA, Mantilla J, Stuart SR, Palmer SS, Hutton JT and Gable CD. 1995. The effect of exercise training with the incorporation of karate techniques on the posture of independently mobile Parkinson's disease subjects: A Pilot Study. *Proc. 12th Internatl. Congress of the World Confed. for Phys. Therapy*.

Palmer SS. 1991. Changes in finger tremor during prolonged submaximal contraction. *Human Movement Science* 10:677-688.

Palmer SS, Kaiser CL. 1993. The influence of task speed and head position on postural adjustments made during voluntary arm movements. *Journal of Human Movement Studies* 24:1-24.

Palmer SS, Mortimer JA, Eisenberg P. 1991. Premovement silences of EMG activity prior to movement in Parkinson's disease. *Electromyography and Clinical Neurophysiology* 31:425-431.

Kilani HA, Palmer SS, Adrian MJ, Gapsis JJ. 1989. Block of the stretch reflex of vastus lateralis during vertical jumps. *Human Movement Science* 8:247-269.

Fetz, EE, Cheney, PD, Mewes, K and Palmer, SS. "Control of forelimb muscle activity by populations of corticomotoneuronal and rubromotoneuronal cells." Pages 437-449 in Allum, JHJ and Hullinger, M, eds., *Afferent Control of Posture and Locomotion (Prog. Brain Res. vol. 80)*, Elsevier, NY, 1989.

Mortimer JA, Eisenberg P, Palmer SS. 1987. Premovement silence in agonist muscles preceding maximum efforts. *Experimental Neurology* 98:542-544.

Palmer SS, Mortimer JA, Webster DD, Bistevins R, Dickinson GL. 1986. Exercise therapy for Parkinson's disease. *Archives of Physical Medicine and Rehabilitation* 67:741-745.

Haney JE, Palmer SS, Khowassah ML, Seals DR, Gisolfi CV. 1986. Mechanism of naloxone-induced hypothermia during exercise. *Iowa Acad. Sci. 98th Session, Program Abstracts*, #152.

Palmer SS, Fetz EE. 1985. Discharge properties of primate forearm motor units during isometric muscle activity. *J. Neurophysiol.* 54:1178-1193.

Palmer, SS and Fetz, EE. 1985. Effects of single intracortical microstimuli in motor cortex on activity of identified forearm motor units in behaving monkeys. *J. Neurophysiol.* 54:1194-1212.

Cheney, PD, Fetz, EE and Palmer, SS. 1985. Patterns of facilitation and suppression of antagonists forelimb muscles from motor cortex sites in the awake monkey. *J. Neurophysiol.* 53:805-820.

Invited Presentations

11 Invited Presentations

Benefits of Exercises for Older Adults, Montereau Retirement Community, Tulsa, OK, Oct. 14, 2004.

Bradykinesia in Parkinson's Disease, Neurology Grand Rounds, Division of Neurosurgery, University of Missouri-Columbia School of Medicine, Columbia, MO, Nov. 16, 1989.

Effect of Alcohol on the Brain, Addictions Anonymous Meeting, Horizons House, Danville, IL, May 21, 1988.

Central Nervous System Compensation for Muscle Fatigue, Departmental Seminar, Dept. of Anatomy, Loyola University School of Medicine, Maywood, IL, April 10, 1987.

Research on Exercise Therapy for Parkinson's Disease, Parkinson's Disease Support Group, Courage Center, Golden Valley, MN, April 15, 1984.

Reviewer

Physical Therapy Journal (reviewer of research articles, 1992-1993)

Medicine and Science in Sports and Exercise (book reviews: Life Span Motor Development, April 1988; Skeletal Muscle in Health and Disease, Oct. 1991)

The International Journal of Aging and Human Development, 1989

Merit Reviewer, VA Research Grant (Mental Health and Behavioral Sciences), Aug. 1988

Membership in Scientific and Professional Societies

Oklahoma Society of Physiologists, 2004 – Present

Society for Neuroscience, 1979 – 1998, 2010 – Present

International Society for the History of Neuroscience, 2011 to Present

Service in Professional Societies

President, Oklahoma Society of Physiologists, 2010-2011

Hosted 30th Annual Oklahoma Society of Physiologists Meeting at Oral Roberts Univ. 6/3/11

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION, AAAS

Secretary, Biomedical Sciences Section, 1993 - 1994

Organized Symposium for May 1994 Meeting in Durango, CO

"Methods of Discovery Used by the Scientist"

Chair, Biomedical Sciences Section, 1992 - 1993

Organized Symposia for May 1993 Meeting in Albuquerque, NM

"Topics in Pulmonary Health," and "Current Issues In Alcoholism"

Grants Received

Vincent, SS. Intramural Grant from Oral Roberts University, "Exercise for the Adults Ages 50-Plus," April 2003, \$1448.

Palmer, SS and Rice-Spearman, L. School of Allied Health Seed Grant, "The effects of caffeine on electromyographic activity and tremor of the arm and leg," March 1993, \$1572.

Palmer, SS, Research Board Grant and Biomedical Research Support Grant, University of Illinois at Urbana-Champaign, School of Life Sciences and College of Medicine, "Data acquisition and analysis of physiological measures from human subjects using the personal computer," Sept. 1986, \$15,500.

Palmer, SS, Development of Application Note *Muscle fatigue and tremor research at the University of Iowa* (Application Note #41W-6396) for Tektronix, Beaverton, OR, Nov. 1985, Gift of \$5000 Digital Oscilloscope

Palmer, SS, Postdoctoral Fellowship, NIH-NINCDS, Neuropathology, Geriatric Research, Educational and Clinical Center, VA Medical Center, Minneapolis, MN, Oct. 1982 - Sept. 1984, \$24,500.

Services to University/College/School Committees/Councils

Judicial Panel for Faculty and Staff, Jan. 1997 - Dec. 1997, St. George's University School of Medicine, Grenada, West Indies

United Way Campaign Coordinator, 1990-92, Dept. of Physical Therapy, School of Allied Health, Texas Tech University Health Sciences Center, Lubbock, TX

Insurance Review Committee, 1991-92, School of Allied Health, Texas Tech University and Texas Tech Health Sciences Center, Lubbock, TX

Honors & Awards

University Award for Mentoring, Alumni Program for Faculty Recognition, 2013-2014

Chairs' Award for Mentoring, Alumni Program for Faculty Recognition, Fall 2005.

Who's Who Among America's Teachers, 2004-2005.

Outstanding Teacher of the Year in Allied Health, 1993, Texas Tech University, Lubbock, TX

The World Who's Who of Women, 8th Edition, 1985, Internatl. Biographical Center, Cambridge, England

Training at the EighthFloor, Tulsa, OK

Blackboard Software for Online Teaching, Fall 2003, 22 hours

Intel Teach to the Future, Academic year 2002-03, 60 hrs.

Lead Teacher Training, Fall 2001, 24 hrs.

Statistical Package for Social Sciences (SPSS) Training

SPSS ANOVA, Tables, Market Segmentation, Basic and Intermediate Statistical Analyses, AnswerTree, Survey Techniques, Regression, Feb. 1999 – March 2000, Newton, MA

Short Courses

More than 56 Short Courses Taken

Balance Training, Correspondence Course from Desert Southwest Fitness, Tucson, AZ, July 2013

Brain Fitness for Older Adults, American Senior Fitness Association, New Smyrna Beach, FL, October 2010.

Myofascial Slings, Correspondence Course from Desert Southwest Fitness, Tucson, AZ, July 2010.

Kinetic Anatomy, Correspondence Course from Desert Southwest Fitness, Tucson, AZ, April 2009.

Language-enriched Exercises for Alzheimer's Patients, Correspondence Course from Desert Southwest Fitness, Tucson, AZ, February 2009.

Annual Women's Health Conference (May 2003, May 2004, May 2005), University of Oklahoma at Tulsa, OK

The Cultural Competency Continuum (May 16, 2000), University of Massachusetts Medical School, Office of Multicultural Affairs, Massachusetts Medical Society Conference Center, Boston, MA

Limits on Prescription Drugs: Impact on Massachusetts' Most Vulnerable Seniors and Disabled (March 5, 1999), Massachusetts Health Council, Inc., Boston, MA

Exercise in the Practice of Medicine (Nov. 30-Dec. 1, 1990), Texas Chapter of American College of Sports Medicine, Tyler, TX

1st International Congress of Movement Disorders (April 25-27, 1990), Sponsored by Interntl. Medical Society of Motor Disturbances, Movement Disorder Society, and National Institute of Neurological Disorders and Stroke, and **Tremor Update** (April 28, 1990), Sponsored by Interntl. Tremor Foundation, Omni Shoreham Hotel, Washington, DC

Environmental Design for Dementia (Feb. 21, 1990), Alzheimer's Disease Institute, Texas Tech University Health Sciences Center, Lubbock, TX

Alzheimer's Disease (Nov. 1, 1986), Institute of Gerontology, Ball State University, Muncie, IN

Health Promotion in Aging Populations (Oct. 17-18, 1986), Midwest Chapter of American College of Sports Medicine, Michigan State University, East Lansing, MI

Human Posture (Oct. 21, 1984),
and **Neurophysiology and Rehabilitation Medicine: The Tie that Binds** (Oct. 21-23, 1984),
and **Current Concepts in Arm Movement Control** (Oct. 22, 1984),
and **EMG in Prognosis** (Oct. 23, 1984), 46th Annual American Academy of Physical Medicine and Rehabilitation, and 61st Annual American Congress of Rehabilitation Medicine, Boston, MA

Exercise: Prescription for Health (July 8-9, 1983), Continuing Medical Education, University of Minnesota, St. Paul, MN