

CURRICULUM VITAE

Neal Arnold Cross
6965 Cumberland Gap Parkway
Harrogate, TN 37752
423 869 7122 (office)

EDUCATION

University of Oregon	Eugene, Oregon	1978	Ph.D.
University of Oregon	Eugene, Oregon	1975	M.S.
University of Maine	Orono, Maine	1970	B.A.
Prescott High School	Prescott, Arizona	1966	

AREAS OF SPECIALIZATION

Human Anatomy, Comparative Anatomy, Physical Anthropology, Human Biology

TEACHING EXPERIENCE

LINCOLN MEMORIAL UNIVERSITY: DEBUSK COLLEGE OF OSTEOPATHIC MEDICINE

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

2008-PRESENT PROFESSOR AND CHAIRMAN

COURSE DIRECTOR FOR GROSS ANATOMY/ OVER SIGHT OF ALL ANATOMY AND PHYSIOLOGY COURSES.

DEPARTMENT OF ANATOMY

2007-2008 *DEPARTMENT CHAIRMAN*

UNIVERSITY OF NEW ENGLAND COLLEGE OF OSTEOPATHIC MEDICINE DEPARTMENT OF ANATOMY

1983-2007 *ASSOCIATE PROFESSOR*

Responsibilities: Gross Anatomy, Neuroanatomy, Remedial Gross Anatomy,
Anatomical Museum, Anthropology and Medicine.

2006-2007 *DEPARTMENT CHAIRMAN ;Dept. of Anatomy*

2004-2005 Visiting Professor of Anatomy; St. Mathews School of Medicine

1996-2007 *Adjunct Faculty* in master's level Physician Assistant Program.

Responsibilities: Live Anatomy.

1984-1986 *DEPARTMENT CHAIRMAN*

1983-1984 *ACTING ASSOCIATE DEAN FOR BASIC SCIENCES*

1982-1984 *ACTING DEPARTMENT CHAIRMAN*

1978-1983 *ASSISTANT PROFESSOR*
Responsibilities: Gross Anatomy, Histology, Neuroanatomy

TEACHING EXPERIENCE *(continued)*

OREGON STATE UNIVERSITY, DEPARTMENT OF ANTHROPOLOGY

1977-1978 *VISITING ASSISTANT PROFESSOR*
Responsibilities: Introductory Physical Anthropology/Archeology

Summer 1977 *VISITING ASSISTANT PROFESSOR*
Responsibilities: Race and Culture

**UNIVERSITY OF OREGON, COLLEGE OF HEALTH, PHYSICAL EDUCATION
AND RECREATION**

1975-1976 *TEACHING ASSISTANT*
Responsibilities: full responsibility for laboratory in Human Gross Anatomy, graduate level.

**UNIVERSITY OF OREGON, COLLEGE OF HEALTH, DEPARTMENT OF
ANTHROPOLOGY**

1975-1976 *TEACHING ASSISTANT*
Responsibilities: discussion leader, Introductory Physical Anthropology

Spring 1976 *INTERIM INSTRUCTOR*
Responsibilities: taught Introductory Physical Anthropology, 100+ students

1974-1975 *TEACHING ASSISTANT*
Responsibilities: made up and graded exams in the following: Human Biology, Human

GREENVILLE HIGH SCHOOL, GREENVILLE, MAINE

1971-1973 *BIOLOGY TEACHER*
Responsibilities: General Biology, Advanced Biology, Earth Science, Animal Dissection,

**GROVE FARM SUMMER CAMP IN THE HUMANITIES, NORTH RUMFORD,
MAINE**

Summer 1969 *ANTHROPOLOGY TEACHER*

Responsibilities: General Anthropology, high school level

FIELD AND RESEARCH EXPERIENCE

Current Spinal Mechanics as Related to Low Back Dysfunction

Clinical Efficacy of Osteopathic Manual Medicine and other Manual Therapies

1980-86 Distribution and Location of Motoneuronal Pools Associated with Various Muscle Groups

Spring 1981 Rhinoceros Dissection. American Museum of Natural History, New York.

Spring-Summer

1979-1981 Collaborative Research; Neuroanatomy. Yerkes Regional Primate Research Center, Atlanta, Georgia. Sponsor: Dr. J. Tigges.

Spring 1978 Oregon Regional Primate Research Center, Beaverton, Oregon. Somatosensory pathways, comparative primate anatomy. Unfunded research. Sponsor: Dr. H. Uno.

1976-1977 Oregon Regional Primate Research Center, Beaverton, Oregon. Dissertation Research: vascular variability in the small intestine among selected primates; funded in part by the Department of Anthropology, University of Oregon.

August 1975 Archeological Survey, Hampton, Oregon. Department of Anthropology, University of Oregon.

July 1975 Archeological Survey, Gold Beach, Oregon; Department of Anthropology, University of Oregon.

June 1975 Archeological Excavation, Pebble Springs, Oregon; Museum of Natural History, University of Oregon.

Summer Archeological excavation, Surrey, Maine; Department of Anthropology, University of Maine 1968

1968-1969 Faunal Analysis of Surrey, Maine archeological site.

June 1968 Archeological Field School, Passadumkeag, Maine; Department of Anthropology, University of Maine.

LANGUAGES AND SKILLS

German
Statistics

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science
Society for Neuroscience
Association of Clinical Anatomists
American Association of Anatomists
_____AMTA pending

CERTIFICATION/LICENSURE

1971-1988 Certified in State of Maine to teach Biology and Social Sciences in grades 7-12.
1993-94 Completed massage program at the Polarity Realization Center, Portland, Maine.
1994 Certified Massage Therapist: passed NCBTMB national certification examination.
1994 Certified Massage Therapist, State of Maine. License Number: MT0000044Z

ADMINISTRATIVE EXPERIENCE

Academic

2008-present Chairman Dept. of Anatomy and Physiology
2007-2008 Chairman , Dept. of Anatomy LMU-DCOM
2006-2007 Chairman, Dept. of Anatomy UNECOM
1995 -2007 Director, UNECOM Fresh Tissue Program.
1978 - 2007 Director, State of Maine Anatomical Donation Program.
1984-1986 Chairman, Department of Anatomy, UNECOM.
1983-1984 Acting Associate Dean for Basic Sciences, UNECOM.
1982-1984 Acting Chairman, Department of Anatomy, UNECOM.
Summer 1981 Acting Chairman, Department of Anatomy, UNECOM.
1975-1976 President, Association of Anthropology Graduate Students, University of Oregon.
1971-1973 Head, Science Department, Greenville High School, Greenville, Maine

Non Academic

1984-1992 Owner/manager, Cross Apartments, residential units in York, Kennebunk and Berwick,

Maine; Dover, New Hampshire.

ADMINISTRATIVE EXPERIENCE *(continued)*

Non Academic *(continued)*

- 1977-1978 Assistant Manager, Ash State Apartments; helped manage 260 graduate student/faculty u
apartments, Corvallis, Oregon.
- 1971 Manager, Yankee Gourmet (Imported cheese and wine retail) Wiscasset, Maine.

UNIVERSITY & COMMUNITY SERVICE

Chairman Student Progress Committee LMU-DCOM
Member PA Program Director Recruitment Steering committee LMU
Member PA Program curriculum committee
Member Curriculum committee, LMU-DCOM
Musculoskeletal system manager LMU-DCOM
Board Member, Downeast School of Massage 2001-present
Board Member, CSI 2002-2005
Board Member, NCBTMB, 1997 - 2002
Executive Committee (Secretary/Treasurer), NCBTMB, 1997 - 2002
Board Liaison to Executive Committee, NCBTMB, 1997 - 2002
Chairman, NCBTMB Committee on Professional Standards and Ethics, 1994 - 1997
Chairman, UNECOM Student Affairs Committee (Disciplinary) 1988-2006
Chairman, UNE faculty senate budget and finance committee. 1985-1989
Chairman, Medical Humanities Steering Committee, UNECOM
Textbook coordinator UNECOM
Faculty Advisor, Medical Student Senate, UNECOM
Musculoskeletal System Manager, UNECOM
Reproductive system manager, UNECOM
Community Medicine System Manager, UNECOM
*National Board of Osteopathic Examiners; to establish anatomy questions for the 1986 part 1
national boards, 1985.*

Member/chairman various university committees, UNE
Member, NCBTMB National Exam Committee, 1995 - 1997
Head Coach, UNE Women's Varsity Softball, 1987-1992
Head Coach, BHS Girl's Softball, 1994-1996
Pitching Coach, UNE Women's Softball, 1994-1995
Pitching coach, BHS Girls Softball, 2005-2006
Pitching coach, LMU Women's Varsity Softball 2007

Medical and Graduate student research oversight

MS thesis advisor, outside, Dan Gebo Dept. of Zoology Oregon State University
1977

MS thesis advisor outside member, Peter Viriassov Boston University 2005

Frank Paul

Wendy Manko

William DeMarco

Jeff Myers

Lisa Brochu

Justine Crowley

Ken Johnson

PROFESSIONAL AFFILIATIONS/HONORS/AWARDS

Recognitions

2005 Named Honory Life Member of HOSA services rendered in workshops.

2004 Certificate of Appreciation from the 133rd Engineer Battalion for assisting in preparing their medics for service in Iraq.

2004 Certificate of Recognition from US Department of Health and Human Services for Body Donation Program

2003 Certificate of Appreciation from AMTA Chapter New Hampshire for Anatomical Workshop development

2002 Named as a “Distinguished Columnist” for Massage Today. Anatomically Speaking by NA Cross, Ph.D., NCTMB. I write an anatomy article once every other month. The publication has a circulation of over 90000 per issue. I have been asked to increase my publications to 1 every other month

2002-present Serve on Grant review panel for the AMTA Foundation. This panel reviews grants annually and funds two –three grants each year. Grants are submitted from healthcare professionals and scientists from around the world. Each proposal must include massage and or bodywork modalities

2003-present Named to Review Panel for the Development of professional Research for the AMTA Foundation. This panel has designed and will judge Case Study presentations at the national

2001 Recognized by the NHAMTA chapter as their educator of the year for services rendered during their anatomy workshops.(The equivalent of their Educator of the year award)

2001 Recognized by the MHOEA (Maine Health Occupations Education Association) for efforts and teaching rendered in development of the anatomy sessions presented to State voc tech schools

1999 Named Maine Medical Center Sports Medicine Teacher of the Year

Adjunct Appointments

1997-present Sports Medicine Program Maine medical Center, Anatomical workshops with Fellows

2004-2005 Adjunct faculty, St. Matthews School of Medicine

1979-1984 Visiting Scientist, Division of Neurobiology, Yerkes Regional Primate Research Center, Emory University, Atlanta, Georgia.

Grants

1992 Principle Investigator, Clinical Assessment of the Common Compensatory Pattern in a Non Western Population. Approved, not funded.

1991 Principle Investigation, Clinical Assessment of the Common Compensatory Pattern in Non Western Population. Approved, not funded. Resubmitted 1992.

1991 Sponsor, Osteopathic Manipulative Treatment and the Obstetrical Patient: Burroughs Wellcome Osteopathic Research Fellowship: AOA Grant #F-91-04.

PROFESSIONAL AFFILIATIONS/HONORS/AWARDS *(continued)*

Grants *(continued)*

1990 Principle Investigator, Bony Architectural Manifestations of the Common Compensatory Pattern: AOA Grant #90-14-313.

1990 Sponsor, A Kinematic Model of Common Compensatory Pattern: Burroughs Wellcome Osteopathic Research Fellowship: AOA Grant #F-90-08.

1982 Principal Investigator, Motoneuronal pools and Morphology of Rat Cervical Epaxial Musculature: AOA; approved, not funded.

1980 Principal Investigator, Development of Integrated Medical Humanities Program in an Osteopathic College: National Endowment for the Humanities, Grant #EC-20072-80-2096.

1972 Proposed and received a grant for \$35,000 to design and equip a high school biology lab. SAD #2, Greenville, ME.

Workshops, attended

University of New Mexico PBL Training 1998, Albuquerque NM

Association of Biology Laboratory Educators-Photographic Microscopy, St. Johns
Newfoundland CA
Blackboard training LMU-DCOM
VPAD training LMU-DCOM

Tekker Associates, Workshop for Non-Profit CEO's, McLean VA 2000

NCBTMB Leadership Workshop; joint national Board of Directors for a workshop on the
roles of Directors in Non Profit Organizations, 1996.

Pelvic Dysfunction Workshop-AMTA National meeting Albuquerque, NM 1994

Multiple Cranio-Sacral Weekend Workshops, UNECOM, 1990-1992.

National Board of Osteopathic Examiners; to establish anatomy questions for the 1986 part
1 national boards, 1985.

Association of Biology Laboratory Education: workshop on microscopic photography,
1984.

National Institute for Osteopathic Educational Development: 2nd Invitational Conference,
1981.

Basic Sciences Research related to Osteopathic Manipulation, 1981.

National Institute for Osteopathic Educational Development: 1st Invitational Conference,
1980.

Osteopathic Manipulative Skills Workshop, UNECOM, 1979.

PROFESSIONAL AFFILIATIONS/HONORS/AWARDS *(continued)*

Invited Presentations

- NCBTMB: Opening the Pathways: A Renaissance Symposium for Touch Therapies, Scottsdale, AZ; "Facilitation
Maine-Dartmouth Family Practice Residency Program, Augusta, ME; "Physiology of Touch";
1995.
- Maine Osteopathic Association, Annual Convention, Rockland, ME; "Touch and The Geriatric Patient", 1993.
- American Academy of Osteopathy, Annual Convention, UAAO, Colorado Springs, CO; " The
Significance of Touching-evidence from non-human primates." 1991

American Academy of Osteopathy, Annual Convocation, Colorado Springs, Colorado; "Skeletal Evidence of Common Compensatory Pattern in Lumbar Vertebrae", 1991.

American Academy of Osteopathy, Annual Convocation, Colorado Springs, Colorado; "The Significance of Touch in Medicine", 1991.

University of New England College of Osteopathic Medicine Research Seminar Series, Title: "Thoracomphalopagus Twins, A Case Study", 1985.

Nasson College Faculty Lecture Series, Title: "Race and IQ", 1981.

The New England Academy of Osteopathy: Symposium on Basic Science and Osteopathic Principles/Techniques, Title: "Evolution of the Human Back and Posture", 1979.

The New England College of Osteopathic Medicine Seminar on the Back, Title: "Anatomy of the Back", 1978.

Presentations

Multiple Anatomic Workshop presentations 1996-present

N. A. Cross and W. S. Manko. "The Effect of Maternal Osteopathic Manipulations and Swedish Massage on the Third Trimester Fetus and the Mother". Third Annual UNE and SmithKline Beecham Research Day, 1996.

American Osteopathic Academy of Orthopedic Surgeons, with J. Blocksum: Arthroscopic Skills Laboratory: The Use of Fresh Tissue Anatomy Lab, 1994.

Department of Anthropology, Florida State University: Biocultural Adaptations and the Incidence of Low Back Pain, 1990.

American Academy of Osteopathic Obstetric and Gynecologic Surgeons annual meeting, with R. Springer, Title: "Diagnosis of Thoracomphalopagus Twins Using Ultrasonography", 1986.

PROFESSIONAL AFFILIATIONS/HONORS/AWARDS *(continued)*

Presentations *(continued)*

New England Osteopathic Assembly; with B. DeMarco, "Underlying Neuroanatomy of Epaxial Musculature", 1982.

New England Osteopathic Assembly; with A. Bell, "Motoneuronal Pools: an EM-HRP Study", 1982.

Department of Anthropology, Oregon State University: "The Significance of Tactile Communication Among Primates", 1978.

BIBLIOGRAPHY

Ph.D. Vascular Variability in the Small Intestine and Ileocecal Region in Selected Primates,
Dissertation University of Oregon.
1978

Tigges, J., M. Tigges, N. A. Cross, R.L. McBride, S.W. Ansel, W.D. Letbetter. Subcortical structures projecting to visual Cortical areas of squirrel monkey (Saimiri): Exptl. Brain Res., Vol. 41:A15-A16, 1980 Abstract.

Tigges, M., J. Tigges, S. Ansel, N. A. Cross, W.D. Letbetter, R.L. McBride. Cell Layers of origin for association and callosal neurons in visual Cortical areas of squirrel monkey (Saimiri): Exptl. Brain Res., Vol. 41:A23, 1980, Abstract.

Letbetter, W. D., J. Tigges, M. Tigges, N. A. Cross, R.L. McBride. Spatial distribution of triceps surae synergistic motor nuclei in the lumbar spinal Cord of squirrel monkey (Saimiri): Soc. Neurosci. Abstr., Vol. 6:73, 1980.

Tigges, M., J. Tigges, S. Ansel, N. A. Cross, W.D. Letbetter, R. McBride. Laminar distribution of neural somata emitting association and callosal fibers to visual areas in Tigges, J., M. Tigges, projecting to visual Cortical areas in squirrel monkey: J. Comp. Neurol., Vol. 209:29-40, 1982.

Grand, T. I. Project Leader; N. A. Cross, K. Scott, D. Cramer, N. Muckenbridge, P. August, participants. Rhinoceros: Form and Function; Rutgers University Film production, 1984.

Cross, N.A. and R.S. Springer. Thoracomphalopagus Twins: A Case Study: in press.

Johnson, K.H. and N. A. Cross. Common Compensatory Pattern and its Relation to Lumbar Facet Angles. JAOA Vol. 90:942, 1990, Abstract.

Paul, F.A., N. A. Cross, B.R. Buser, and J.M. Norton. The Effect of Osteopathic Manipulative Therapy (OMT) on Heart Rate and Blood Pressure in Female Athletes. JAOA Vol. 90:724-725, 1990, Abstract.

Johnson, K.H. and N. A. Cross. Lumbar Articular Facets in Relation to the Common Compensatory Pattern. Submitted.

BIBLIOGRAPHY *(continued)*

Cross, N.A. and K.H. Johnson. Lumbar Facet Angle Asymmetries in Two Racially Distinct Populations. JAOA Vol. 90:929, 1990, Abstract.

Paul, F.A., J.M. Norton, N. A. Cross and B.R. Buser. The Effect of Osteopathic Manipulative Therapy (OMT) on Heart Rate and Blood Pressure in Female Athletes, 1997.

Cross, N.A. and R. Gelwick. Humanizing Death In the Gross Anatomy Lab. Resubmitted.

Cross, N.A. and K.H. Johnson. Zygapophyseal modification resulting from postural imbalances. In preparation.

Johnson, K.H. and N. A. Cross. A Kinematic Model of Co- Compensatory Pattern. JAOA, Vol. 91:903, 1991, Abstract.

Brochu, L. and N. A. Cross. Osteopathic Manipulative Treatment and the Obstetrical Patient. JAOA Vol. 92:1178, 1992, Abstract.

Wells, J. P. and N. A. Cross. The Development of Quadrupedalism in Human and Non-Human Primates. JAOA, Vol. 94 No. 9, 1994, Abstract.

N. Cross, Chapter on Standards and Ethics in Proceedings from NCBTMB: Opening the Pathways: A Renaissance Symposium for Touch Therapies: Scottsdale, AZ; "Facilitation for Standards and Professional Ethics", 1997.

Book review in American Association of Anatomists News vol. 17, number 3, Sept. 2008

One abstract submitted for presentation at the Biomedical Engineering Society/Conference of Engineering in Medicine and Biology.(Accepted and published)
M. Levy, N. Cross, J. Meyers, Evaluation of Total Knee Arthroplasty From Cadaveric Specimens 2001

Review Chapters in Moore's Essential of Clinical Anatomy-2003

Review articles for Clinical Anatomy-2001

Review articles Clinical Anatomy-2005

PERSONAL DATA

Military:	U.S. Army Reserve	1973-1975
	Maine National Guard	1969-1973