

PREETI M. NAIR

Curriculum Vitae

Home

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Office

Sensory Motor Performance Program
Rehabilitation Insititute of Chicago
Chicago , IL 60611
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EDUCATION

2008-present	Post-Doctoral Fellow, Sensory Motor Performance Program, Rehabilitation Institute of Chicago, Chicago, IL
2008	PhD, Rehabilitation Science Doctoral Program, College of Public Health and Health Professions, University of Florida, Gainesville, FL.
2001	Bachelor of Physiotherapy, S.I.O.R- University of Pune, India, Summa Cum Laude.

ADDITIONAL CERTIFICATIONS

2002	Medical Acupuncture International Academy of Scientific Acupuncture Mumbai, India.
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RESEARCH EXPERIENCE

Research Assistant (Alumni Fellowship), Department of Physical Therapy, College of Public Health & Health Professions, University of Florida, Gainesville. **August 2002 to July 2006.**

VA Rehabilitation Research and Development
Differential effects of robotic vs. manually-assisted locomotor training
PI: Andrea L. Behrman, PhD, PT; Co-PI: Steven A. Kautz, PhD
Start date: Nov, 2005; End date: Oct, 2008.

VA Rehabilitation Research and Development
Mechanisms of response to locomotor training post-stroke
PI: Steven A. Kautz, PhD; Co-PI: Andrea L. Behrman, PhD, PT
Start date: Sept, 2005, End date: August, 2009.

Christopher Reeves Paralysis Foundation.
Project: Acute neurophysiological changes in SCI individuals with locomotor training.
PI: Carl Kukulka, PhD, PT; Co-PI: Floyd J Thompson, PhD, Andrea L Behrman, PhD, PT.
Start date: 2001, End date: 2003.

*National Center for Medical Rehabilitation and Research, National Institutes of Health.
K-01, Career Development Award.*
Project: Activity-dependent plasticity after spinal cord injury.
PI: Andrea L. Behrman, PhD, PT.
Start date: April 2000, End date: April 2005.

Doctoral Research, Examining the neuromechanical and neurophysiological control of walking with orthotic devices in healthy individuals and persons after spinal cord injury. Examine the effect of a single joint stabilizing device such as the posterior leaf spring ankle foot orthosis on transitional phase mechanics and soleus H-reflex modulation during walking.
Completion date: Spring 2008.

TEACHING EXPERIENCE

Teaching Assistant, Department of Physical Therapy, College of Public Health & Health Professions, University of Florida, Gainesville. **August 2006 to present.**

Fall 2006	Neurorehabilitation- I, second year DPT students Basic skills, first year DPT students
Spring 2007	Neurorehabilitation- II, second year DPT students Neuroscience, first year DPT students
Summer 2007	Therapeutic Modalities, first year DPT students
Fall 2007	Neurorehabilitation- I, second year DPT students Basic skills, first year DPT students
Spring 2008	Neurorehabilitation- II, second year DPT students Neuroscience, first year DPT students

Undergraduate Honors Student Mentor, College of Public Health & Health Professions, University of Florida, Gainesville, FL.

Spring, 2005- 2006	Erin McCrea
Spring, 2005- 2006	Crystal Bay

CLINICAL EXPERIENCE

January 2002 to June 2002	Physical Therapist Multiple Sclerosis Society of India Mumbai Branch. India
October 2001 to December 2001	Physical Therapist Navi Mumbai Municipal Hospital, Mumbai, India.

January 2001 to March 2001

Consulting Physical Therapist
Gujarat Quake Rehabilitation Center
Sassoon General Hospital, Pune, India.

SCHOLARSHIPS AND MERIT AWARDS

August 2002 to August 2006

Alumni Fellowship
University of Florida, Gainesville, FL.

June 1996 to June 2001

Educational Merit Scholarship
Mumbai Port Trust Hospital,
Mumbai, India.

October 2004

Graduate Student Travel Award
Graduate Student Council, University of
Florida, Gainesville, FL.

February 2006

Graduate Student Travel Award
Graduate Student Council, University of
Florida, Gainesville, FL.

February 2006

RSD Program Travel Award
College of Public Health & Health Professions
University of Florida, Gainesville, FL.

LICENSURE

2006 to present

Michigan # 5501012810

2001 to present

Licensed to practice in India.

PROFESSIONAL MEMBERSHIPS

Life Member, Indian Association of Physiotherapists.

Member of Multiple Sclerosis Society of India.

PUBLICATIONS

REFERREED

Published

Behrman A, **Nair P**, Bowden M, Dauser, R, Herget B, Martin J, Phadke C, Reier P, Senesac C, Thompson F, Howland D. Locomotor training restores walking in a non-ambulatory child with severe, chronic, cervical incomplete spinal cord injury. *Physical Therapy*, 2008

Behrman AL, Bowden MG, **Nair PM**. Neuroplasticity after spinal cord injury and training: an emerging paradigm shift in rehabilitation and walking recovery. *Physical Therapy*, 2006 Oct;86(10):1406-25.

Behrman AL, Lawless-Dixon AR, Davis SB, Bowden MG, **Nair P**, Phadke C, Hannold EM, Plummer P, Harkema SJ. Locomotor training progression and outcomes after incomplete spinal cord injury. *Physical Therapy*, 2005 Dec;85(12):1356-71.

Under review

Bowden MG, Hannold EL, **Nair PM**, Fuller LB, Behrman AL. Beyond Gait Speed: A Multidimensional Approach To Locomotor Rehabilitation Outcomes.

Manuscripts in preparation

Nair PM, Behrman AL. Reliability and Responsiveness of Spatial and Temporal Measurements of Gait after Incomplete Spinal Cord Injury using the GaitMat II.

Behrman A, **Nair P**, Bowden M, Phadke C. Clinical gait outcomes after locomotor training in persons with chronic incomplete spinal cord injury.

Nair P, Kautz S, Zehr P, Behrman A. Neuromechanical examination of walking with an ankle foot orthosis in individuals after incomplete spinal cord injury.

PUBLISHED ABSTRACTS AND PROCEEDINGS

Nair PM, Behrman AL. Neuromechanical and neurophysiological examination of walking with an ankle foot orthosis in individuals with incomplete spinal cord injury. Neuroplasticity Symposium, University of Florida, January 31st, 2008.

Behrman, Andrea L., Fuller, Laura, Stickles, Sarah, Day, Kristin, **Nair, Preeti**, Phadke, Chetan, Bowden, Mark, Kautz, Steve. Differential effects of robotically- versus manually-assisted locomotor training on stepping performance after incomplete spinal cord injury. ISPGR, July 14-18, 2007- Burlington, Vermont.

Behrman, Andrea L., **Nair, Preeti**, Bowden, Mark, Day, Kristin, Friedman, Emily, Herget, Benjamin, Phadke, Chetan P., Senesac, Claudia, Tester, Nicole, Thompson, Floyd J., Reier, Paul, Howland, Dena R. Isolated, voluntary leg movement: is it a necessity for restoration of walking after spinal cord injury? Accepted at ISPGR, July 14-18, 2007- Burlington, Vermont.

Nair PM, Behrman AL. Intrarater, Interrater and Test-retest reliability of spatial and temporal measurements of gait after incomplete spinal cord injury using Gaitmat II. APTA (CSM) February 1-4, 2006 - San Diego, California.

Also presented at Graduate Students Council Research Forum on 31st March, 2006

Behrman A, **Nair P**, Bowden M, Fuller L, Herget B, Phadke C, Senesac C. Locomotor training: Recovery of walking in non-ambulatory 4.5 year old child with chronic, cervical SCI. APTA (CSM) February 1-4, 2006 - San Diego, California.

Behrman AL, Bowden M, Herget M, Howland D, Martin J, **Nair P**, Phadke C, Reier P, Senesac C, Thompon F. Locomotor training and recruitment of developmental neuroplasticity: Insights from a pediatric SCI case study. Neuroscience, November 12-16, 2005 - District of Columbia, Washington DC.

Nair PM, Kautz SA, Behrman AL. Neuromechanical examination of the control of walking with a posterior leaf spring ankle foot orthosis. Neuroplasticity Symposium, University of Florida, September 22nd, 2005.

Shah P, Stevens J, Jayaraman A, Pathare N, Bowden M, **Nair P**, Phadke C, Behrman A, Walter G, Vandeborne K. Loading induced changes in soleus muscle following incomplete spinal cord injury using magnetic resonance imaging. APTA (CSM) February 23-27, 2005 - New Orleans, Louisiana.

Shah P, Stevens JE, Jayaraman A, Pathare NC, Bowden M, Phadke CP, **Nair PM**, Ko M, Walter G, Behrman AL, Vandeborne K. Effect of locomotor training on skeletal muscle size in individuals with incomplete spinal cord injury. Combined Sections Meeting, American Physical Therapy Association, Feb. 2005.

P. Nair, PT, C. Phadke, PT, M. Bowden, MS, PT, S. Davis, PT, AR. Lawless, MPT, A.L Behrman, PhD, PT. Clinical Gait Outcomes after Locomotor Training in Persons with Chronic, Incomplete Spinal Cord Injury. ACRM. September 9th-12th, 2004 - Jacksonville, Florida.

Awarded 3rd place in research poster session at ACRM.

Also presented at Dr.Machen's Inaugural Symposium.

Preeti M. Nair, Chetan P. Phadke, Andrea L. Behrman. How to walk faster after incomplete spinal cord injury. College of Public Health and Health Professions Research Day Fair. April 16th 2004.

Lawless AR, Davis S, Phadke C, **Nair P**, Bowden M, Woodbury M, Flynn SM, Hannold E, Ko M, Senesac C, Behrman AL. Case report: Locomotor training, progression, and outcomes after incomplete spinal cord injury. APTA (CSM) February 4-8, 2004 Nashville, Tennessee.

Behrman AL, Lawless AR, Woodbury M, Bowden M, **Nair P**, Davis S, Phadke CP, Duncan PW. Recovery of walking after neurologic injury: From spinal cord injury to stroke. NASPSPA 2003 Thursday, June 5-7, Savannah, Georgia.

Woodbury, ML., Chou, YL., Phadke, C., **Nair, P.**, Bowden, M., Davis, S., Behrman, AL., Flynn, SM., Kukulka, C.& Thompson, FJ. H-Reflex modulation during body weight supported treadmill walking in subjects with incomplete spinal cord injury: immediate response to treadmill speed. College of Health Professions Research Day Fair. University of Florida. Gainesville, Florida. April, 17th 2003.

Awarded top three Research Day poster award.

Phadke C, **Nair P**, Woodbury M, Bowden M, Davis S, Chou Y, Flynn S, Thompson F, Behrman A, Kukulka C. H-Reflex rate depression in normal and spinal cord injured subjects before and after a single bout of treadmill and bicycle training. College of Health Professions Research Day Fair. University of Florida. Gainesville, Florida. April, 17th 2003.

Behrman AL, Chou YL, Phadke C, **Nair P**, Flynn SM, Kukulka CK, Thompson F. H-reflex Modulation during Body Weight Supported Treadmill Walking in Subjects with Incomplete SCI: Immediate Response to Treadmill Speed. APTA (CSM) Tampa, FL. Feb 12-16, 2003.

Phadke CP, Kukulka CK, Behrman AL, Thompson F, Flynn SM, **Nair PM**, Chou YL. H-reflex rate depression in normal and spinal cord injured subjects before and after a single bout of treadmill and bicycle training. Society for Neuroscience. Nov 7th 2002, 32nd Annual Meeting Program and Abstracts.

Also at College of Health Professions Research Day Fair.

PRESENTATIONS

LOCAL

"Walking with an ankle foot orthosis: A Neuromechanical Perspective."

Presented at Neuronoons, College of Public Health and Health Professions, University of Florida.

"H-reflex methodological considerations"

Guest speaker for the Neuroplasticity course offered by Dr. Andrea Behrman at the College of Public Health and Health Professions, University of Florida, 13th February 2007.

"Implications of orthotic use during locomotor training."

Presented at Neuronooons, College of Public Health and Health Professions, University of Florida, 20th July 2004.

ATTENDED WORKSHOPS/CONFERENCES

2006	Neuroscience Conference Society for Neuroscience Conference, Atlanta, Georgia October 13-18, 2006
2006	Graduate Students Council Research Forum University of Florida. 31 st March, 2006.
2006	Combined Sections Meeting American Physical Therapy Association, San Diego, California, Feb 1-5, 2006.
2005	Society for Neuroscience Conference Society for Neuroscience, District of Columbia, Washington DC, November 12-16, 2005.
2005	Neuroplasticity Symposium Neuromuscular Plasticity Training Program, University of Florida. September 22 nd , 2005.
2004	American Congress Of Rehabilitation Medicine Ponte Vedra Beach, Florida. September 9-12, 2004
2004	Flagship of Discovery President's Inaugural Symposium, University of Florida. September, 2004
2004	Annual Research Day College of Public Health and Health Professions, University of Florida, Florida. April 16 th , 2004.
2003	Combined Sections Meeting American Physical Therapy Association, Tampa Bay, Florida. Feb 12-16, 2003
2001	Mobilization Techniques Spine and Peripheral Joint Mobilization Instructors: Dr. Jacob VC, PT, Dr. Kachalia D, PT. College of Physiotherapy, Sancheti Institute for Orthopaedics and Rehabilitation, Pune, India.
2000	Introduction to NDT NDT Theoretical Framework and Clinical Application Instructor: Dr. Chitnis A, PT. College of Physiotherapy, Sancheti Institute for Orthopaedics and Rehabilitation, Pune, India

1999	EMG and NC Studies Instructor: Dr.Yardi SS College of Physiotherapy, Sancheti Institute for Orthopaedics and Rehabilitation, Pune, India
1999	Indian Association Of Physiotherapists First Annual Conference Pune Branch, Maharashtra State, India.

SERVICE: University and Community

University of Florida

February 2006- present

Member, Graduate Student Council

(Represented the department of Physical Therapy in the council. Participated in graduate student research forums and in improving graduate student programs.)

July 2006- present

Mayor of Corry Village, Mayors' Council

(Mayors' Council is a Student Government Funded Organization, and one of the charter members of the University of Florida Student Government. The organization conceptualizes and implements programs that target the general welfare of all residents of the university housing villages.)