

Jennifer Rachwani
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CURRICULUM VITAE

CURRENT POSITION

Postdoctoral Fellow

Infant Action Lab, Psychology Department
New York University
Advisor: Dr. Karen Adolph

EDUCATION

Doctor of Philosophy: (2011 – 2014)

Department of Human Physiology & Neuroscience
University of Oregon, Eugene, OR, USA

Masters in Neuroscience: (2009- 2010)

The Neuroscience Institute of Castilla y León (INCYL)
University of Salamanca, Salamanca, Spain.

Masters in Neuro- Rehabilitation: (2008 – 2009)

Department of Physical Therapy
San Antonio Catholic University of Murcia (UCAM)
Murcia, Spain

Postgraduate course in Pediatric Therapy: (2007-2008)

International University of Catalunya (UIC)
Barcelona, Spain

Physical Therapy Degree: (2004 – 2007)

Department of Health Science
University of Malaga, Malaga, Spain

OTHER POST-GRADUATE COURSES:

- Kinetic Control: Understanding Movement and Function – Concepts
- Pediatric Kinesiotaping
- Workshop DAFO's Cascade
- Topics in Physical Therapy – Pediatrics (APTA)
- Pilot Functional Physical Therapy Pediatrics
- Spontaneous General Movements in Newborn
- Scoliosis Workshop

COLLABORATIONS

Book Chapters

- Santamaria V. Rachwani J. Clinical Case in Cerebral Palsy. Motor Control: Translating Research into Clinical Practice (5th edition: in preparation). In A. Shumway-Cook and M.H. Woollacott (Eds.). Baltimore, MD: Lippincot Williams & Wilkins.

Workshops

- 2015, Workshop: Postural Control. Woollacott M. & Shumway-Cook A. Official translator and assistant instructor in the postural control labs. Alcala de Henares, Madrid (Spain)
- 2015, Workshop: Coding and Sharing Video with Databrary and Datavyu. Assistant. SRCD, Philadelphia (USA).
- 2013, Workshop: DAFOS Cascade. Conference organization as delegate of the SEFIP. Malaga, Andalucia, (Spain).

PEER-REVIEWED ARTICLES

1. **Rachwani J**, Soska KC, Adolph KE (2017). Behavioral Flexibility in Learning to Sit. Dev Psychobio.1-12. doi.org/10.1002/dev.21571.
2. Hoch J, **Rachwani J**, Adolph KE. Why infants move: Locomotor exploration is not directed toward destinations. Child Dev (under review).
3. Santamaria V, **Rachwani J**, Manselle W, Saavedra S, Woollacott M (2017). The Impact of Segmental Trunk Support on Reaching and Posture while Sitting in Healthy Adults. J Mot Behav. 28:1-14.

4. Santamaria V, **Rachwani J**, Saavedra S, Woollacott M (2016). The Impact of Segmental Trunk Support on Posture and Reaching in Children with Moderate and Severe Cerebral Palsy. *Pediatr Phys Ther.* 28(3):285-93
5. **Rachwani J**, Santamaria V, Saavedra S, Woollacott M (2015). The Development of Trunk Control and its Relation to Reaching in Infancy: A Longitudinal Study. *Front Hum Neurosci.* 9:94.
6. Santamaria V, **Rachwani J** (2014). Literature Review: XL Scientific Document. Development of Reach-to-Grasp & Related Sensorimotor Systems in Typical Developing Infants. SEFIP.
7. **Rachwani J**, Santamaria V, Saavedra SL, Wood S, Porter F, Woollacott MH (2013) Segmental Trunk Control Acquisition and Reaching in Typically Developing Infants. *Exp Brain Res.* 228(1):131-9.
8. Santamaría González VF, **Rachwani Parshotam J** (2010). Physiotherapy in Haemophilic Arthropathy of the Knee. *Cuest. Fisioter.* 39 (1): 68 – 77.

ABSTRACTS

1. V Santamaria, **Rachwani J**, Manselle W, Saavedra S, Woollacott M. The Impact of Segmental Trunk Support on a Reach-to-Grasp Task while Sitting. Program No. 160.02. Neuroscience [2014] Abstracts. [Washington DC]: Society for Neuroscience, [2014]. Online.
2. **Rachwani J**, Santamaria V, Saavedra SL, Wood S, Porter F, Woollacott MH (2013) Segmental Trunk Control Acquisition and Reaching in Typically Developing Infants. *Dev Med Child Neurol.* 2013; 55 suppl 3: 73.
3. V Santamaria, Riobobos A, Heredia M, **Rachwani J**, de la Fuente J, Criado J, Nava M, Yajeya J. Motor Recovery after a Frontal Cortex Lesion in Adult Rats Applying a Short-Term Rehabilitation Protocol in a Critical Period of Time. Program No. 276.16. Neuroscience [2012] Abstracts. [New Orleans, LA]: Society for Neuroscience, [2012]. Online.
4. Santamaría González VF, **Rachwani Parshotam J**. Physiotherapy in Haemophilic Children. *Rev. Fisioterapia UCAM.* 2009; 8 suppl: 11 – 36.
5. **Rachwani Parshotam J**, Santamaría González VF, De Ru E. Functional Effects of Strengthening Programmes in Spastic Diplegia. *Dev Med Child Neurol.* 2009; 51 suppl 3: 23.

PRESENTATIONS

Invited Speaker:

- 2017, Teachers College, Columbia University. Head-Mounted Eye-Tracking in Infants and Children. New York, USA.
- 2014, Therapy in Educational Settings, Eugene, USA. Segmental Trunk Acquisition and Control: Implications in Typical Development and Cerebral Palsy. Eugene, USA.

Oral Presentations:

- 2015, International Society for Posture and Gait Research (ISPGR). The Development of Trunk Control and its Relation to Reaching: A Longitudinal Study. Seville, Spain.
- 2010, National Conference of the Spanish Society in Pediatric Physical Therapy (SEFIP). Valladolid, Spain.
- 2009, Annual Meeting of the of the European Academy of Childhood Disability: From Myth to Evidence, Lithuania, Vilnius.
- 2009, XII National Conference in Pediatric Physical Therapy, Murcia, Spain.

Poster Presentations:

- 2017, Society for Research in Child Development (SRCD). Visual, Manual, and Postural Coordination in the Development of Prehension. Austin, USA.
- 2016, International Congress on Infant Studies (ICIS). Infants' Adaptation to a Sloping Situation: Maintaining Balance while Sitting on a Sloping Surface. New Orleans, USA.
- 2016, International Congress on Infant Studies (ICIS). Infants Plan Prehension While Pivoting. New Orleans, USA.
- 2016, International Congress on Infant Studies (ICIS). Why do Infants Move? Locomotor Exploration is Not Directed toward Visible Goals. New Orleans, USA.
- 2015, International Society for Posture and Gait Research (ISPGR). The Impact of Segmental Trunk Support on Posture and Reaching in Children with Cerebral Palsy: A Kinematic and Electromyographic Study. Seville, Spain.
- 2014, The International Society on Infant Studies (ISIS). Berlin, Germany.
- 2013, American Academy for Cerebral Palsy and Developmental Medicine (AACPDM), Millwaukee, USA.

SCIENTIFIC AWARDS

1. Eugene Evonuk Award: \$10,000 Scholarship. University of Oregon (UO), Motor Control & Cognition Laboratory: Human Physiology Department. 2014.
2. Betty Foster McCue Scholarship: \$5,000. University of Oregon (UO), Graduate School. 2014
3. Accesit Award of investigation, 2010. Ilustrious Profesional College of Physical Therapists of Andalucia. Research title: Use of moulded pelvic seats as an intervention for improving the neuromotor ability of the upper extremity in cerebral palsy.

TEACHING EXPERIENCE

2017: Analysis and Synthesis of Human Motion – Assistant Professor

2014: Motor Control – Graduate Teaching Fellow

2013: Exercise in Medicine – Graduate Teaching Fellow

2013: Alternative Medicine – Teaching Assistant

2012: Exercise in Medicine – Graduate Teaching Fellow

2012: Alternative Medicine: Teaching Assistant

PROFESSIONAL EXPERIENCE

Pediatric and Neurologic physical therapy 2008 - 2011

Physical therapy in traumatology/orthopedics 2007 - 2008

English to Spanish translator in official courses 2009 – 2011:

- 2010, Kinetic Control

- 2009, Workshop, DAFO's Cascade

PROFESSIONAL SERVICE AND MEMBERSHIP

Eligible for practicing physical therapy in the US, 2014 - Present

Delegate of the Spanish Society in Pediatric Physical Therapy (SEFIP), 2008 - Present

Student Secretary for the European Area of Higher Education: The Bologna Plan, 2005-2007