## **CURRICULUM VITAE**

Jaya Rachwani <u>Name</u>

Department of Physical Therapy **Contact** 

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# **Higher Education**

# A. Degrees

<u>Institution</u>	Dates Attended	Degree and Major	<b>Date Conferred</b>
New York University	01/2015 – 08/2019	Postdoc in Developmental Psychology & Pediatrics	08/2019
University of Oregon	09/2011 – 12/2014	Ph.D. in Human Physiology	12/2014
Neuroscience Institute of Castilla & Leon	09/2009 – 06/2010	M.S. in Neuroscience	06/2010
Catholic University of Murcia	09/2008 - 06/2009	M.S. in Neurorehabilitation	06/2009
International University of Catalunya	09/2007 – 06/2008	M.S. in Pediatric Physical Therapy	06/2008
Health Science University of Malaga	09/2004 — 06/2007	B.S. in Physical Therapy	06/2007

# **B.** Additional Higher Education

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<u>Institution</u>	<u>Dates</u>	Course
Hunter College	05/2020	Blackboard Basics Course
Ripple Science	04/2020	Continuing Your Research Remotely: Tools and Practices to Accelerate Your Productivity
Hunter College, City University of New York	09/2019	The Pain Revolution and Why You Ought to Be a Part of It
Positive Science, Inc.	06/2015	Head-Mounted Eye-Tracking for Infants, Children, and Adults
MathWorks ®	01/2015 – 05/2015	MATLAB Fundamentals
The Movement Centre, The Robert Jones & Agnes Hunt Hospital	09/2012	Application of the Segmental Assessment of Trunk Control (SATCo) Test
University of Oregon	09/2011 – 12/2011	Introduction to Programming and Problem Solving
Spanish Association of Physiotherapists	03/2010	Kinetic Control: Understanding Movement and Function
Catholic University of Murcia	02/2009 – 05/2009	Neurodevelopmental Treatment (NDT) in Adults: Bobath Concept
Catholic University of Murcia	01/2009	Perfetti Method
Spanish Society in Pediatric Physical Therapy	05/2009	Application of Dynamic Ankle Foot Orthoses (DAFO's), Cascade
American Physical Therapy Association	10/2008	Topics in Physical Therapy: Pediatrics

Spanish Society in Pediatric Physical 06/2008 Introduction to Spontaneous General Movement Assessment in Newborns

## **Professional Experience**

## A. Teaching

<u>Institution</u>	<u>Dates</u>	Rank	<u>Department</u>
Hunter College, CUNY	08/2019 - current	Assistant Professor	Physical Therapy
New York University	01/2017 - 06/2017	Adjunct Instructor	Physical Therapy
University of Oregon	01/2014 - 06/2014	Lab Instructor	Human Physiology
University of Oregon	01/2012 - 06/2014	Teaching Assistant	Human Physiology

## B. Other (non-teaching)

<u>Institution</u>	<u>Dates</u>	<u>Title</u>
University Settlement	2019	Early Intervention Provider
Independent Contractor	2009 – 2011	English to Spanish Translator for Physical Therapy Courses
Poquito a Poco Clinic	2008 – 2011	Physical Therapist for Pediatric Neurologic Patients
San Juan de Dios Hospital	2008	Physical Therapist in Pediatric Department
Independent Contractor	2007 – 2011	Physical Therapist for Pediatric and Adult Neurologic Patients
San Juan de La Cruz Clinic	2007 – 2008	Physical Therapist in Orthopedic Department

### **Publications**

#### A. Articles

- Rachwani, J., Kaplan, B. E., Tamis-LeMonda, C. S., & Adolph, K. E. (in press). Children's use of everyday artifacts: Learning the hidden affordance of zipping. *Developmental Psychobiology*.
- Santamaria V., **Rachwani J.**, Saussez, G., Bleyenheuft, Y., Dutkowsky, J., Gordon A. M., & Woollacott, M. H. (2020). The seated postural & reaching control test in cerebral palsy: A validation study. *Physical and Occupational Therapy in Pediatrics*, *40*, 441-469.
- Rachwani, J., Tamis-LeMonda, C. S., Karasik, L. B., Lockman, J. J., & Adolph, K. E. (2020).
   Learning the designed action of everyday objects. *Journal of Experimental Psychology: General*, 149, 67-78.
- Santamaria, V., Rachwani, J. (2020). Commentary on "Development and Validity of the Clinical Assessment of Body Alignment for Children With Cerebral Palsy". *Pediatric Physical Therapy*, 32, 143.
- Hoch, J. E., Rachwani, J., & Adolph, K. E. (2020). Looking and locomotion: Real-time dynamics of locomotor exploration in crawling and walking infants. *Child Development*, 91, 1001-1020.
- **Rachwani, J.**, Herzberg, O., Golenia, L., & Adolph, K. E. (2019). Postural, visual, and manual coordination in the development of prehension. *Child Development*, *90*, 1559-1568.
- Soska, K. C., **Rachwani, J.**, Hofsten, C., & Adolph, K. E. (2019). Infants plan prehension while pivoting. *Developmental Psychobiology*, *61*, 1048-1063.

- Rachwani, J., Soska, K. C., & Adolph, K. E. (2017). Behavioral flexibility in learning to sit. *Developmental Psychobiology*, *59*, 937-948.
- Santamaria, V., Rachwani, J., Manselle, W., Saavedra, S. L., & Woollacott, M. H. (2017). The
  impact of segmental trunk support on reaching and posture while sitting in healthy adults. *Journal of Motor Behavior*, 50, 51-64.
- Santamaria, V., **Rachwani, J.**, Saavedra, S. L., & Woollacott, M. H. (2016). The impact of segmental trunk support on posture and reaching in children with moderate and severe cerebral palsy. *Pediatric Physical Therapy*, 28, 285-293.
- Rachwani, J., Santamaria, V., Saavedra, S. L., & Woollacott, M. H. (2015). The development of trunk control and its relation to reaching in infancy: A longitudinal study. *Frontiers in Human Neuroscience*, *9*, 1-12.
- Rachwani, J., Santamaria, V., Saavedra, S. L., Wood, S., Porter, F., & Woollacott, M. H. (2013) Segmental trunk control acquisition and reaching in typically developing infants. *Experimental Brain Research*, 228, 131-139.
- Santamaria, V., & Rachwani, J. (2010). Fisioterapia en la artropatía hemofíica de rodilla.
   Cuestiones de Fisioterapia: Revista Universitaria de Información e Investigación en Fisioterapia, 39, 68-77.

## B. Chapters

- Rachwani, J., Hoch, J.E., & Adolph, K. E. (2020). Action in development: Variability, flexibility, and plasticity. In C. S. Tamis-LeMonda & J. J. Lockman (Eds.). *Handbook of infant development*. Cambridge University Press, pp. 449-494.
- Adolph, K.E., Rachwani, J., & Hoch, J.E. (2018). Motor and physical development: Locomotion.
   Reference Module in Neuroscience and Biobehavioral Psychology. Elsevier. ISBN 9780128093245.

#### C. Abstracts

- Santamaria, V., Rachwani, J., Manselle, W., Saavedra, S., Woollacott, M. (2014). The impact of segmental trunk support on a teach-to-grasp task while sitting. Program No. 160.02. Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience. Online.
- Rachwani, J., Santamaria, V., Saavedra, S. L., Wood, S., Porter, F., Woollacott, M. H. (2013).
   Segmental trunk control acquisition and reaching in typically developing infants. *Developmental Medicine & Child Neurology*, 55(Suppl. 3), 73.
- Santamaria, V., Riolobos, A., Heredia, M., Rachwani, J., De la Fuente, J., Criado, J., Nava, M., Yajeya, J. (2012). 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 Meeting Planner. New Orleans, LA: Society for Neuroscience. Online.
- Santamaria, V, **Rachwani**, **J.** (2009). Physiotherapy in haemophilic children. *Revista de Fisioterapia UCAM*, 8(Suppl. Junio), 18.
- Rachwani, J., Santamaria, V, De Ru, E. (2009). Functional effects of strengthening programmes in spastic diplegia. *Developmental Medicine & Child Neurolology*, *51*(*Suppl. 5*), 23.

## D. Websites

 Santamaria, V. & Rachwani, J. (2014). Literature review: XL Scientific document. Development of reach-to-grasp & related sensorimotor systems in typical developing infants. <a href="http://www.sefip.org/">http://www.sefip.org/</a>.

#### E. Doctoral Dissertation

**Rachwani, J.** (2015). Contributions of distinct trunk segments to control of posture and reaching during typical development. Available from Scholars' Bank. (0171A\_11159).

# **Professional Activities**

## A. Research Support

- 2020 2021 NICHD, R01-HD-033486, Sub-award, *Flexibility of learning in infant skill acquisition*, (\$3,086,397 total costs), Karen Adolph, PI, Jaya Rachwani, co-I.
- 2014 Graduate School of University of Oregon, Betty Foster McCue Scholarship, *The Development of Trunk Control and its Relation to Reaching: A Longitudinal Study*, (\$5000 total costs).
- 2013 2014 Human Physiology Department, University of Oregon, Eugene Evonuk Award, *The Development of Trunk Control and its Relation to Reaching: A Longitudinal Study*, (\$10,000 total costs).

### **B. Peer-Reviewed Presentations**

- Rachwani, J., Miles, C., Hospodar, C., Kaplan, B. E., Adolph, K. E. (2021, February). Feasibility of Using Head-Mounted Eye Tracking to Characterize Children's Looking Behavior in Natural Settings. American Physical Therapy Association, Combined Sections Meeting. Conference online.
- Rachwani, J., Herzberg, O., Ossmy, O., & Adolph, K. E. (2021, February). Trunk control predicts infants' postural adaptation: Maintaining balance from long to short sit. American Physical Therapy Association, Combined Sections Meeting. Conference online.
- Karpatkin, H. I., Rubeo, A., Rodriguez, A., Rodriguez, L., Rhodes, R., **Rachwani, J.** (2021, February). Treadmill walking differs from overground walking in persons with multiple sclerosis. American Physical Therapy Association, Combined Sections Meeting. Conference online.
- Karpatkin, H. I., **Rachwani, J.**, Riva S, Russo, K, Stevens, S., Yu, W. (2021, February). The effect of cooling vests on walking endurance in persons with multiple sclerosis. American Physical Therapy Association, Combined Sections Meeting. Conference online.
- Delfing, D., Hentrich, L., Rachwani, J., Chin, K., Santamaria, V., Imms, C., Friel, K., & Gordon, A. (2020, September). Quantifying engagement during therapeutic interventions in children with cerebral palsy. American Academy for Cerebral Palsy and Developmental Medicine. Conference online.
- Delfing, D., **Rachwani, J.**, Santamaria, V., Imms, C., & Gordon, A. (2020, September). Engagement in physical therapy: A proposal of key components and outcome variables. American Academy for Cerebral Palsy and Developmental Medicine. Conference online.
- Surana, B., Santamaria, V., Luna, T.D., **Rachwani, J.**, Gordon, A., & Agrawal, S. (2020, September). Segmental intensive trunk training in children with cerebral palsy GMFCS IV-V. American Academy for Cerebral Palsy and Developmental Medicine. Conference online.
- Rachwani, J., Herzberg, O., Teng, T., & Adolph, K. E. (2020, July). Real-time Postural Transitions in Infant Development. International Congress of Infant Studies. Conference canceled.
- Kaplan, B. E., Rachwani, J., Zhang, C., Shilling, M., Tamis-LeMonda, C. S., & Adolph, K. E. (2020, July). Scaffolding motor action: How mothers teach infants the designed actions of everyday objects. International Congress of Infant Studies. Conference canceled.
- Han, D., Rachwani, J., Cheng, M., Liu, Y., & Adolph, K. E. (2020, July). Why do infants fall? Causes of falls across the development of walking. International Congress of Infant Studies. Conference canceled.

- Karpatkin, H., Rhodes, R., Rodriguez, L., Rodriguez, R., Rubeo, A., & **Rachwani**, **J.** (2020, February). The effects of intermittent versus continuous walking on gait fatigability in persons with multiple sclerosis. APTA Combined Sections Meeting. Denver, CO.
- Kaplan, B. E., **Rachwani, J.**, Han, D., Tamis-LeMonda, C. S., & Adolph, K. E. (2019, March). Children's use of everyday artifacts: Cognitive and perceptual-motor requirements of unzipping a zipper. Society for Research in Child Development. Baltimore, MD.
- Ossmy, O., Han, D., Cheng, M., Kaplan, B. E., Rachwani, J., Tamis-LeMonda, C. S., & Adolph, K. E. (2019, March). Real-time problem solving in children and adults: The development of predictive planning in object fitting. Society for Research in Child Development. Baltimore, MD.
- Rachwani, J., Kaplan, B. E., Tamis-LeMonda, C. S., Karasik, L. B., Lockman, J. J., & Adolph, K. E. (2018, July). Learning the designed actions of everyday objects. International Congress on Infant Studies. Philadelphia, PA.
- Kaplan, B. E., Rachwani, J., Sidi, A., Vasa, A., Tamis-LeMonda, C. S., & Adolph, K. E. (2018, July). Perceptual-motor exploration and problem solving: Learning the designed action of Duplo bricks. International Congress on Infant Studies. Philadelphia, PA.
- Borenstein, H., Chen, A., Xu, M., Kaplan, B. E., Rachwani, J., Tamis-LeMonda, C. S., & Adolph, K. E. (2018, July). A toy's story: Exploration, discovery, implementation, and construction. International Congress on Infant Studies. Philadelphia, PA.
- Herzberg, O., Rachwani, J., Kaplan, B. E., O'Grady, S. M., Comalli, D. M., & Adolph, K. E. (2017, November). Flexibility in action: How infants and adults navigate under a barrier. International Society for Developmental Psychobiology. Washington, DC.
- Kaplan, B. E., Rachwani, J., Tamis-LeMonda, C. S., & Adolph, K. E. (2017, November). Hidden affordances in plain sight: Discovering possibilities for action with Duplo bricks. International Society for Developmental Psychobiology. Washington, DC.
- Rachwani, J., & Adolph, K. E. (2017, November). Challenges to developmental research on sitting and reaching. International Society for Developmental Psychobiology. Washington, DC.
- Hoch, J., **Rachwani, J.**, & Adolph, K. E. (2017, April). Why do infants move? Locomotor exploration is more random than destination directed. Society for Research in Child Development. Austin, TX.
- Rachwani, J., Golenia, L., Herzberg-Keller, O. E., Borenstein, H., De Velez, L. P., & Adolph, K. E. (2017, April). Visual, manual, and postural coordination in the development of prehension. Society for Research in Child Development. Austin, TX.
- Hoch, J., **Rachwani, J.**, & Adolph, K. E. (2016, May). Why do infants move? Locomotor exploration is not directed toward visible goals. International Congress on Infant Studies. New Orleans, LA.
- Rachwani, J., Soska, K. C., Hurwitz, L. B., & Adolph, K. E. (2016, May). Infants' adaptation to a sloping SITuation: Maintaining balance while sitting on a sloping surface. International Congress on Infant Studies. New Orleans, LA.
- Rachwani, J., Soska, K. C., von Hofsten, C., Rosander, K., & Adolph, K. E. (2016, May). Infants plan prehension while pivoting. International Congress on Infant Studies. New Orleans, LA.
- Rachwani, J., Santamaria, V., Saavedra, S. L., & Woollacott, M. H. (2015, June). The development of trunk control and its relation to reaching: A longitudinal study. International Society for Posture and Gait Research. Seville, Spain.
- Santamaria, V., **Rachwani, J.**, Saavedra, S. L., & Woollacott, M. H. (2015, June). The impact of segmental trunk support on posture and reaching in children with cerebral palsy: A kinematic and electromyographic study. International Society for Posture and Gait Research. Seville, Spain.

- Santamaria, V., Rachwani, J., Manselle, W., Saavedra, S. L., & Woollacott, M. H. (2014, November). The impact of segmental trunk support on a reach-to-grasp task while sitting. Society for Neuroscience. Washington DC, WA.
- Rachwani, J., Santamaria, V., Saavedra, S. L., & Woollacott, M. H. (2014, July). The development of trunk control and its relation to reaching: A longitudinal study. The International Society on Infant Studies. Berlin, Germany.
- Rachwani, J., Santamaria, V., Saavedra, S. L., Wood, S., Porter, F., & Woollacott, M. H. (2013, October) Segmental trunk control acquisition and reaching in typically developing infants. American Academy for Cerebral Palsy and Developmental Medicine. Milwaukee, WI.
- Santamaria, V., Riolobos, A., Heredia, M., **Rachwani, J.**, de la Fuente, J., Criado, J., Nava, M., & Yajeya, J. (2012, October). Motor recovery after a frontal cortex lesion in adult rats applying a short-term rehabilitation protocol in a critical period of time. Society for Neuroscience. New Orleans, LA.
- Rachwani, J., Santamaria, V., & De Ru, E. (2009, June). Functional effects of strengthening programmes in spastic diplegia. Annual Meeting of the of the European Academy of Childhood Disability: From Myth to Evidence. Lithuania, Vilnius.
- Santamaria, V., & **Rachwani**, **J.** (2009, April). Physiotherapy in haemophilic children. XII National Conference in Pediatric Physical Therapy. Murcia, Spain.

#### C. Invited Presentations

- Santamaria, V., **Rachwani, J.** (2020, September). Postural and reaching control in sitting. Physical Therapy Master Program at International University of Catalonia. Spain. Online.
- Rachwani, J. (2020, May) Navigating career challenges: Women in science during COVID-19. Women in Science Day at Hostos Community College. Online.
- Rachwani, J., & Herzberg, O. (2019, November). A systems approach to motor development and intervention. Academy of Pediatric Physical Therapy Annual Conference (APPTAC). Anaheim, CA.
- Adolph, K.E., Rachwani, J., Kretch, K.S., & Herzberg, O. (2019, November). The power of video to understand, capture, and quantify motor behavior. Academy of Pediatric Physical Therapy Annual Conference (APPTAC). Anaheim, CA.
- Adolph, K.E., Rachwani, J., & Herzberg, O. (2019, March). Understanding, capturing, and quantifying functional motor behavior. Neuro-Developmental Treatment Association Annual Conference. Charlotte, NC.
- Rachwani, J., & Hoch, J.E. (2018, July). Head-mounted eye tracking in infants. Psychology Department Workshop at Sarah Lawrence College. New York, NY.
- Rachwani, J. (2018, May). A systems perspective on the development of postural, visual, and manual actions. Physical Therapy Department at Hunter College. New York, NY.
- Santamaria, V., & Rachwani, J. (2016, November). Evidencia científica e implicaciones terapéuticas del tronco en sedestación y durante las actividades de alcance y manipulación. National Conference of the Spanish Society of Pediatric Physical Therapy. Seville, Spain.
- Rachwani, J., & Hoch, J.E. (2017, June). Head-mounted eye tracking in infants. Neuroscience and Education Department at Teachers College. New York, NY.
- Santamaria, V., & **Rachwani**, **J.** (2014, April). Segmental trunk acquisition and control: Implications in typical development and cerebral palsy. Therapy in Educational Settings (TIES). Eugene, OR.
- Rachwani, J., Santamaria, V., & De Ru, E. (2010, May). Efectos funcionales de programas de entrenamiento muscular en diplejía espástica. National Conference of the Spanish Society in Pediatric Physical Therapy. Valladolid, Spain.

## D. Invited Workshops

<u>Institution</u>	<u>Dates</u>	<u>Title</u>
New York University	2016-present	Instructor in Yearly Video-Coding Workshops Using Datavyu Software.
University of Alcala de Henares	10/2015	Lab Instructor in Postural Control Workshop
Society for Research in Child Development	03/2015	Assistant in Coding and Sharing Video with Databrary and Datavyu Workshop
Spanish Society in Pediatric Physical Therapy	05/2009	Local Organizer of DAFO's Cascade Workshop

### E. Editorial Work

- Manuscript Reviewer for *Child Development*, August 2020 present.
- Manuscript Reviewer for *Infant Behavior and Development*, March 2020 present.
- Manuscript Reviewer for *Developmental Psychobiology*, August 2019 present.
- Manuscript Reviewer for Infancy, July 2019 present.
- Manuscript Reviewer for Journal of Experimental Child Psychology, April 2017 present.
- Manuscript Reviewer for Journal of Motor Behavior, February 2016 present.

# F. Work in Progress

- Kaplan, B.E., Rachwani, J., Tamis-LeMonda, C. S., & Adolph, K. E. (in prep). Perceptual-motor challenges in children's toy play. *Child Development*.
- Santamaria, V., **Rachwani, J.**, Saavedra, S. L., & Woollacott, M. H. (in prep). The impact of segmental trunk support on posture and reaching in children with moderate and severe cerebral palsy: An electromyographic study.
- Rachwani, J., Herzberg, O., Kaplan, B. E., O'Grady, S. M., Comalli, D. M., & Adolph, K. E. (in prep). Flexibility in action: How infants and adults navigate under a barrier.

### G. Faculty-Driven Graduate Student Research in Progress

- Irmen, M., Khatri, W., & Stepchuk, J. (in prep). Responsiveness of the Seated Postural and Reaching Control (SP&Rco) test. Clinical Research Requirement for the Doctor of Physical Therapy. Faculty Advisor.
- Browne K. A., Donovan, K., & Nazzal, K. (in prep). Measuring change following NDTA contemporary practice model<sup>™</sup> intervention. Clinical Research Requirement for the Doctor of Physical Therapy. Faculty Advisor.
- Ahlouche, S., Caba, L., Palazzolo, A., & Ramirez-Pena, J. (in prep). The development of sitting and multi-directional reaching. Clinical Research Requirement for the Doctor of Physical Therapy. Faculty Advisor.
- Goldstone, H., Hiller, S., Kanneth, J., & Karim, N. (in prep). Behavioral flexibility in the development of sitting and reaching. Clinical Research Requirement for the Doctor of Physical Therapy. Faculty Advisor.
- Pham, C., Rendano, J. (in prep). Systematic review: Does treadmill training vs overground walking result in similar functional improvements in walking? Clinical Research Requirement for the Doctor of Physical Therapy. Faculty Advisor.

#### H. Research Advisor

2018 – present Advisor to Candidate for Education Doctorate Degree (EdD) at Teachers College. Columbia University. Research project: Level of engagement in children with cerebral palsy. 2017 Advisor to Candidate for Education Doctorate Degree (EdD) at Teachers College, Columbia University. Research project: The effect of segmental static trunk support training in children with cerebral palsy. 2011 - 2019Advisor to Undergraduate Students. Advised 2 undergraduate honors theses & 10 undergraduate independent research projects. Sponsored 2 undergraduate conference talks & 6 undergraduate conference posters. Mentored 4

undergraduates who obtained support from New York University Dean's

Undergraduate Research Fund.

## **Professional Service**

## A. Department of Physical Therapy

2020 - present Department's Search Committee 2019 – present Department's Personal and Budget Committee 2019 – present Student Progress Committee

2019 - present Admission Committee

## B. Community

2020 – present Research Committee Member at New York Physical Therapy Association

# **Outside Recognition**

### A. Professional Licensure and Certifications

2019 Approved Early Intervention Provider by the Department of Health in the State of New York: Provider Number: 1088776 2018 Licensed Physical Therapist by the University of the State of New York Education Department, Office of Professions: License Number 042931 2014 CPR, AED, and Basic First Aid Certification by University of Oregon. 2007 - 2011Licensed Physical Therapist by Ilustre Colegio de Fisioterapeutas de Andalucía, Spain: License Number 3490

# **Academic and Professional Honors**

#### A. Professional Service and Membership

2019 – present Member of the American Physical Therapy Association 2008 – present Delegate of Andalucia for the Spanish Society in Pediatric Physical Therapy 2005 - 2007Student Secretary for European Higher Education. Health Science College of Malaga,

Physical Therapy Department: The Bologna Plan

#### **B. Scientific Awards**

- Travel Award: \$500. International Society for Developmental Psychobiology, 2017.
- Accessit Award of Investigation. Illustrious Professional School of Physical Therapists of Andalusia, 2010.

## C. Book Collaborations

• Clinical case in cerebral palsy. *Motor control: Translating research into clinical practice* (5<sup>th</sup> edition). In A. Shumway-Cook & M.H. Woollacott (Eds.). Baltimore, MD: Lippincot Williams & Wilkins.

### D. Selected Research Featured in Media

 Santamaria, V., Rachwani, J., Saavedra, S.L., & Woollacott, M.H. (2016). The impact of segmental trunk support on posture and reaching in children with moderate and severe cerebral palsy. *Pediatric Physical Therapy*, 28, 285-93.

# **References**

- Marjorie Woollacott, Professor Emeritus. University of Oregon, Eugene, OR.
- Karen Adolph, Professor. New York University, New York, NY.