

UNIVERSITY OF MIAMI
Curriculum Vitae

1. Date: June 08, 2015

I Personal

2. Name: **Monica A. Perez, P.T., Ph.D.**
3. Home Phone: (301) 312-2974
4. Office Phone: (305) 243-7119
5. Home Address: 1095 NW 14th Terrace
Miami, FL 33136
6. Current Academic Rank: Associate Professor
- 6a. Current Track of Appointment: Tenured
7. Primary Department: Neurological Surgery
8. Secondary or Joint Appointments: Physical Medicine and Rehabilitation
Physical Therapy
VA Miami Health System
9. Citizenship: United States of America
10. Visa Type (if non-citizen): None

II. Higher Education

11. Institutional:
- | | | |
|---|-------|------|
| University of Miami
Coral Gables, FL | Ph.D. | 2003 |
| Catholic University of Chile
Santiago, Chile | BS | 1992 |
12. Non-Institutional (description; dates):
- | | | |
|--|----------------------------|-----------|
| Masters-level course in neuroscience,
Department of Physical Therapy,
University of Miami School of Medicine | Graduate Student Assistant | 1999-2003 |
|--|----------------------------|-----------|
13. Certification, licensure (description; board or agency; dates):

Physical Therapist #PT19245	Florida Department of Health	2000-2009
Physical Therapist #PT-4040	Arizona State Board of Physical Therapy	1997-1999

III. Experience

14. Academic:

Department of Neurological Surgery, University of Miami	Associate Professor	2015-present
Department of Physical Medicine and Rehabilitation, University of Pittsburgh	Associate Professor	2014-2015
Department of Physical Medicine and Rehabilitation, University of Pittsburgh	Assistant Professor	2008-2014

15. Hospital Appointments:

Pittsburgh VA healthcare system Pittsburgh, PA	Research Health Scientist 5/8 th appointment	2013-Present
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16. Non-Academic:

N/A

17. Military:

N/A

IV. Publications

18. Books and monographs published:

§Notes Trainee under the Direction of Dr. Perez

1. **§Caruso A and Perez MA.** Transcranial Magnetic Stimulation: Methods, Clinical Uses, and Effects on the Brain. Invited Chapter: Physiological Basis of Transcranial Magnetic Stimulation. Knotkova (Ed) Nova Publishers, 2013.
2. **Perez MA.** Transcranial Magnetic Stimulation and Spinal Cord Injury. In Cortical Connectivity: Brain Stimulation for Assessing and Modulating Cortical Connectivity and Function. Springer, Editors: Robert Chen and John Rothwell, pp 323-336, 2012.
3. **Perez MA.** The Functional Role of Interhemispheric Interactions in Human Motor Control. In Cortical Connectivity: Brain Stimulation for Assessing and Modulating Cortical Connectivity and Function. Springer, Editors: Robert Chen and John Rothwell, pp 165-181, 2012.

4. **Perez MA** and LG Cohen. Principles and Mechanisms of Transcranial Magnetic Stimulation. Brain Stimulation in the Treatment of Pain. Knotkova H, Cruciani RA, and Merrick J (Eds). Chapter 8, pages 125-139, 2010.
5. **Perez MA**. Contribution to Motor Systems, Chapter 29: The Spinal Cord, Muscle, and Locomotion. Boxes: "Neural Control of Human Walking" and "Plasticity in Spinal Cord Circuits." Fundamental Neuroscience. Edition 3, 2007.
19. Juried or refereed journal articles or exhibitions:
§Notes Trainee under the Direction of Dr. Perez, ^ANotes Press Release
 1. Cirillo J and **Perez MA**. Subcortical Contribution to Late TMS-induced I-waves in Intact Humans. *Frontiers in Integrative Neurosci*, 2015 (in press).
 2. Macklin RA, Brooke VJ, Calabro FJ, Ellaway PH, **Perez MA**. Sensory Examinations after Incomplete Chronic Cervical Spinal Cord Injury. *Spinal Cord*, 2015 (in press).
 3. Cirillo J, Calabro F, **Perez MA**. Impaired Organization of TMS-induced I-waves after Human Spinal Cord Injury. *Cerebral Cortex*, 2015 (in press).
 4. **Perez MA**, Rothwell JC. Distinct Influence of Hand Posture on Cortical Activity during Human Grasping. *J Neuroscience*, 35:4882-4889, 2015.
 5. **Perez MA**. Neural control of hand movements. *Motor Control*, 19:135-141, 2015.
 6. [§]Tazoe T and **Perez MA**. Effects of repetitive transcranial magnetic stimulation after spinal cord injury. *Arch Phys Med Rehabil*, 96:S145-S155, 2015.
 7. [§]Tazoe T and **Perez MA**. Selective activation of ipsilateral motor pathways in intact humans. *J Neuroscience*, 34:13924-13934, 2014.
 8. [§]Bunday KL, Tazoe T, Rothwell JC, **Perez MA**. Subcortical control of precision grip after human spinal cord injury. *J Neuroscience*, 34:7341-7350, 2014.
 9. Dimyan MA, **Perez MA**, Auh S, Tarula E, Wilson M, Cohen LG. Non-paretic arm force does not over-inhibit the paretic arm in chronic post-stroke hemiparesis. *Arch Phys Med Rehabil*, 95:849-856, 2014.
 10. **Perez MA**, Butler JE, Taylor JL. Modulation of transcallosal inhibition by bilateral activation of agonist and antagonist proximal arm muscles. *J Neurophysiology*, 111(2):405-414, 2014.

11. [§]Tazoe T and **Perez MA**. Speed-Dependent Contribution of Callosal Pathways to Ipsilateral Movements. *J Neuroscience*, 33:16178-16188, 2013.
12. [§]Bunday KL, Oudega M, **Perez MA**. Aberrant Crossed Corticospinal Facilitation in Muscles Distant from a Spinal Cord Injury. *PLoS One*, 8:e76747, 2013.
13. [§]Barry MD, Bunday KL, Chen R, **Perez MA**. Selective Effects of Baclofen on Use-Dependent Modulation of GABAB Inhibition after Tetraplegia. *J Neuroscience*, 33: 12898-12907, 2013.
14. Geertsen SS, Kjær M, Pedersen KK, Petersen TH, **Perez MA**, Nielsen JB. Central common drive to antagonistic ankle muscles in relation to short-term co-contraction training in non-dancers and professional ballet dancers. *J Applied Physiology*, 115:1075-1081, 2013.
15. ^{Δ§}Bunday KL and **Perez MA**. Motor recovery after spinal cord injury enhanced by strengthening corticospinal-motoneuronal synapses. *Current Biology*, 22:2355-2361, 2012.
16. Oudega M and **Perez MA**. Corticospinal reorganization after spinal cord injury. *J Physiology*, 590: 3647-3663, 2012.
17. [§]Bunday KL and **Perez MA**. Impaired Crossed Facilitation of the Corticospinal Pathway after Cervical Spinal Cord Injury. *J Neurophysiology*, 107:2901-2911, 2012.
18. **Perez MA**, Soteropoulos DS, Baker SN. Corticomuscular coherence during bilateral isometric arm voluntary contractions in healthy humans. *J Neurophysiology*, 107:2154-2162, 2012.
19. Soteropoulos DS and **Perez MA**. Physiological changes underlying bilateral isometric arm voluntary contractions in healthy humans. *J Neurophysiology*, 105; 1594-602, 2011.
20. Harris-Love M, Morton S, **Perez MA**, Cohen LG. Mechanisms of short-term training-induced reaching improvement in severely hemiparetic stroke patients: A TMS study. *Neurorehabilitation and Neural Repair* 25; 398-411, 2011.
21. [§]Yedimenko JA and **Perez MA**. The effect of bilateral isometric forces in different directions on motor cortical function in humans. *J Neurophysiology* 104; 2922-2931, 2010.
22. Wang W, Collinger JL, **Perez MA**, Tyler-Kabara EC, Cohen LG, Birbaumer N, Brose SW, Schwartz AB, Boninger ML, Weber DJ. Neural Interface Technology for

Rehabilitation: Exploiting and Promoting Neuroplasticity. *PMR Clinics North America* 21; 157-178, 2010.

23. Sehm B, **Perez MA**, Xu B, Hidler J, Cohen LG. Functional neuroanatomy of mirroring during a unimanual force generation task. *Cerebral cortex* 20: 34-45, 2009. (First and second authors contributed equally).
24. **Perez MA** and Cohen LG. Scaling of motor cortical excitability during unimanual force generation. *Cortex*. 45:1065-1071, 2009.
25. **Perez MA** and Cohen LG. Principles and Mechanisms of Transcranial Magnetic Stimulation. *J Pain Management*. 2:239-248, 2009.
26. **Perez MA** and Cohen LG. The Corticospinal System and Transcranial Magnetic Stimulation in Stroke. *Topics in Stroke* 16:254-269, 2009.
27. **Perez MA** and Cohen LG. Interhemispheric inhibition between primary motor cortices: what have we learned? *J Physiology*. 587:725-726, 2009.
28. Reis J, Swayne OB, Vandermeeren Y, Camus M, Dimyan M, Harris-Love M, **Perez MA**, Ragert P, Rothwell JC and Cohen LG. Contributions of transcranial magnetic stimulation to the understanding of cortical mechanisms involved in motor control. *J Physiology*. 586:325-351, 2008.
29. **Perez MA**, Tanaka S, Wise SP, Willingham DT and Cohen LG. Time-specific Contribution of the supplementary motor area to intermanual transfer of procedural knowledge. *J Neuroscience*. 28:9664-9669, 2008.
30. **Perez MA** and Cohen LG. Mechanisms underlying functional changes in the primary motor cortex ipsilateral to an active hand. *J Neuroscience*. 28:5631-5640, 2008.
31. **Perez MA**, Lundbye-Jensen J and Nielsen JB. Task-specific depression of the soleus H-reflex size after co-contraction training of antagonistic ankle muscles. *J Neurophysiology*. 98:3677-3687, 2007.
32. **Perez MA**, Tanaka S, Wise SP, Sadato N, Tanabe HC, Willingham DT and Cohen LG. Neural substrates of intermanual transfer of a newly acquired motor skill. *Current Biology*. 17:1896-1902, 2007.
33. **Perez MA**, Wise SP, Willingham DT and Cohen LG. Neurophysiological mechanisms involved in transfer of procedural knowledge. *J Neuroscience*. 27: 1045-1053, 2007.

34. Harris-Love M, **Perez MA**, Chen R and Cohen LG. Interhemispheric inhibition in distal and proximal arm representations in the primary motor cortex. *J Neurophysiology*. 973: 2511-2515, 2007.
35. Nielsen JB, **Perez MA**, Oudega M, Enriquez-Denton M and Aimonetti JM. Evaluation of transmission in descending motor tracts by transcranial magnetic stimulation in the rat. *Eur J Neurosci*. 25: 805-814, 2007.
36. **Perez MA**, Lundbye-Jensen J and Nielsen JB. Changes in corticospinal drive to spinal motoneurons following visuo-motor skill learning in humans. *J Physiology*. 573: 843-855, 2006.
37. **Perez MA**, Lungholt BK and Nielsen JB. Presynaptic control of Ia afferents in relation to acquisition of a novel visuo-motor skill in healthy humans. *J Physiology*. 568: 343-354, 2005.
38. **Perez MA**, Lungholt BK and Nielsen JB. Short-term adaptations in spinal cord circuits evoked by repetitive transcranial magnetic stimulation: possible underlying mechanisms. *Exp Brain Res*. 162: 201-212, 2005.
39. **Perez MA**, Lungholt BK, Nyborg K and Nielsen JB. Motor skill training induces changes in the excitability of the leg cortical area in healthy humans. *Exp Brain Res*. 159: 197-205, 2004.
40. **Perez MA**, Floeter MK and Field-Fote EC. Repetitive sensory input increases reciprocal Ia inhibition in individuals with incomplete spinal cord injury. *J Neurol Phys Therapy*. 28: 114-121, 2004.
41. **Perez MA**, Field-Fote EC and Floeter MK. Patterned sensory stimulation induces plasticity in reciprocal Ia inhibition in humans. *J Neuroscience*. 23: 2014-2018, 2003.
42. **Perez MA** and Field-Fote EC. Impaired posture-dependent modulation of disynaptic reciprocal Ia inhibition in individuals with incomplete spinal cord injury. *Neurosci Lett*. 341: 225-228, 2003.
20. Other works, publications and abstracts:
§Notes Trainee under the Direction of Dr. Perez
 1. *§Federico P and Perez MA. Impaired Modulation of Corticospinal Drive before Movement Onset after Spinal Cord injury. ASNR meeting Washington DC, 2014. Voluntary*

2. §Macklin RA, Ellaway P, and **Perez MA**. Assessment of Sensory Function after Human Spinal Cord Injury. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
3. §Long J and **Perez MA**. Cortico-cortical coupling during bilateral forces. Abstract Viewer/Itinerary Planner. ASNR meeting Washington DC, 2014. Voluntary
4. §Federico P and **Perez MA**. Impaired Corticospinal Excitability during Inhibition of Voluntary Movement after Tetraplegia. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
5. §Boyanoski T and **Perez MA**. Coupling of Bimanual Forces during Independent and Cooperative Hand Movements. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
6. §Bunday KL, Tazoe T, Long J, Rothwell JC, and **Perez MA**. Subcortical Control of Human Precision Grip. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
7. **Perez MA** and §Tazoe T. Grip Configuration- and Aperture-dependent Modulation of Corticospinal Drive in Humans. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
8. §Tazoe T and **Perez MA**. Reduced Motor Cortical Maps during Voluntary Activity after Incomplete Spinal Cord Injury. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
9. §Savisky M, Cirillo J and **Perez MA**. Interactions between I-waves in human motor cortex. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
10. §Cirillo J, Calabro FJ, and **Perez MA**. Temporal pattern of corticospinal volleys influences motor function after tetraplegia. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
11. Calabro FJ and **Perez MA**. Object properties influence symmetry of bilateral reach to grasp movements after tetraplegia. Abstract Viewer/Itinerary Planner. Washington DC: Society Neurosci Abstr, 2014. Voluntary
12. Soteropoulos D and **Perez MA**. Reciprocal Interactions between Distal and Proximal Upper-limb Segments in Humans. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary
13. §Tazoe T and **Perez MA**. Ipsilateral Corticospinal Responses are modulated during Bilateral Voluntary Contractions in Humans. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary

14. §Cirillo J and **Perez MA**. Temporal Dispersion of Corticospinal Volleys is Impaired in Humans with Spinal Cord Injury. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary
15. §Meyer G and **Perez MA**. Time-Dependent Adaptations during Bilateral Arm Movements after Tetraplegia. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary
16. §Tazoe T and **Perez MA**. Reorganization of Corticospinal Maps in Distal and Proximal Upper-limb Muscles after Tetraplegia. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary
17. §Bunday KL and **Perez MA**. Potentiation of Corticospinal Synaptic Plasticity in Spinal Cord Injured Patients. Abstract Viewer/Itinerary Planner. San Diego, LA.: Society Neurosci Abstr, 2013. Voluntary
18. §Tazoe T and **Perez MA**. The speed of voluntary movements modulates interhemispheric inhibitory interactions between primary motor cortices. 2012 Abstract Viewer/Itinerary Planner. New Orleans, LA.: Society Neurosci Abstr, 2012. Voluntary
19. §Bunday KL and **Perez MA**. Strengthening residual corticospinal projections improves motor function after human spinal cord injury. Data and Dine, University of Pittsburgh, 2012. Voluntary
20. §Bunday KL and **Perez MA**. Strengthening residual corticospinal-motoneuronal synapses after human spinal cord injury. Data Blitz, University of Pittsburgh, 2012. Voluntary
21. §Bunday KL and **Perez MA**. Impaired task-dependent modulation of corticospinal drive after human spinal cord injury. 2012 Abstract Viewer/Itinerary Planner. New Orleans, LA.: Society Neurosci Abstr, 2012. Voluntary
22. §Bunday KL, Caruso AP, and **Perez MA**. Crossed facilitation of corticospinal drive in muscles above and below human spinal cord injury. 2012 Abstract Viewer/Itinerary Planner. New Orleans, LA.: Society Neurosci Abstr, 2012. Voluntary
23. Soteropoulos DS and **Perez MA**. Intermuscular coherence between hand and arm muscles during bilateral contractions in humans. 2012 Abstract Viewer/Itinerary Planner. New Orleans, LA.: Society Neurosci Abstr, 2012. Voluntary
24. §Caruso AP and **Perez MA**. Effect of isometric forces in different directions on human motor learning. 279.28/NN36. 2011 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2011. Voluntary

25. §Barry MD and **Perez MA**. Interhemispheric inhibition between motor cortices after chronic spinal cord injury. 279.29/OO1. 2011 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2011. Voluntary
26. §Bunday KL and **Perez MA**. Neuroplasticity After Spinal Cord Injury. Spinal Cord Injury Journal Club, University of Pittsburgh, 2011. Voluntary
27. §Bunday KL and **Perez MA**. Neuroplasticity After Spinal Cord Injury. American Society of Neurorehabilitation, 2011. Refereed
28. §Bunday KL and **Perez MA**. Spike-time-dependent-plasticity at corticospinal-motoneuronal synapses after human spinal cord injury. 279.27/NN35. 2011 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2011. Voluntary
29. Soteropoulos DS and **Perez MA**. Physiological changes underlying bilateral isometric arm voluntary contractions in healthy humans. 2010 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2010. Voluntary
30. §Park WH and **Perez MA**. Corticospinal contribution to bilateral in-phase and out-phase arm movements. 2010 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2010. Voluntary
31. §Bunday KL and **Perez MA**. Interactions between bilateral arm muscles after chronic spinal cord injury. 2010 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2010. Voluntary
32. §Bunday KL and **Perez MA**. Abnormal motor cortical function after chronic cervical spinal cord injury. Science, University of Pittsburgh, 2010. Voluntary
33. **Perez MA**, Soteropoulos DS, Baker SN. Cortico-muscular coherence during bilateral isometric voluntary contractions in healthy humans. 2010 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2010. Voluntary
34. §Yedimenko JA, Lomuscio JM, **Perez MA**. Effect of movement direction on motor cortical function in healthy humans. 2009 Abstract Viewer/Itinerary Planner. Chicago, IL: Society Neurosci Abstr, 2009. Voluntary
35. **Perez MA**, Butler JE, Taylor JL. Transcallosal inhibition between proximal arm muscles during isometric voluntary contractions. 2009 Abstract Viewer/Itinerary Planner. Chicago, IL: Society Neurosci Abstr, 2009. Voluntary
36. **Perez MA**, Xu B, Cohen LG. Cortico-thalamic connectivity during intermanual transfer of procedural motor learning. 2008 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2008. Voluntary

37. Vercauteren K, D. Callaert D, **Perez MA**, S. Sunaert S, Swinnen SP, Wenderoth N. Why does the dominant hand outperform the non-dominant one? Combining TMS and behavior. 2008 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2008. Voluntary
38. Harris-Love, **Perez MA**, Morton S, Kapteyn R, Cohen LG. Neural mechanisms of practice-induced improvement in functional reaching after moderate severity stroke. 2008 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2008. Voluntary
39. Hodics T, **Perez MA**, Cohen LG. Lasting modulation of excitability in the primary motor cortex by stimulation of the opposite dorsal premotor cortex. 2008 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2008. Voluntary
40. Dimyan MA, **Perez MA**, Tarula E, Cohen LG. Modulation of interhemispheric interactions by force generation after chronic stroke. 2008 Abstract Viewer/Itinerary Planner. Washington, D.C.: Society Neurosci Abstr, 2008. Voluntary
41. **Perez MA**, Tanaka S, Wise SP, Sadato N, Tanabe HC, Willingham DT, Cohen LG. The involvement of the supplementary motor area and thalamus in transfer of motor learning in healthy subjects. 2007 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2007. Voluntary
42. Tanaka S, **Perez MA**, Wise SP, Willingham DT, Cohen LG. Does the SMA contribute to encode a sequence of movements during intermanual transfer of sequence knowledge? 2007 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2007. Voluntary
43. Sehm BS, **Perez MA** and Cohen LG. Activity in primary motor cortices during force generation. II. Interhemispheric inhibition. 2007 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2007. Voluntary
44. **Perez MA**, Tanaka S, Wise SP, Sadato N, Tanabe HC, Willingham DT, Cohen LG. The role of the supplementary motor area in intermanual transfer of procedural learning in healthy subjects. American Neurological Association 2007. Refereed
45. **Perez MA** and Cohen LG. Interaction between primary motor cortices at different force levels. American Neurological Association 2007. Refereed
46. Sehm B, **Perez MA**, Xu B, Hidler J and Cohen LG. Role of medial premotor and ipsilateral primary motor cortex in force generation and mirroring. Abstract: Human Brain Mapping, 2007. Voluntary

47. Sehm B, **Perez MA**, Xu B, Hidler J and Cohen LG. Ipsilateral activation of motor and premotor areas during an isometric wrist force task in healthy humans. 2006 Abstract Viewer/Itinerary Planner. Atlanta, GA: Society Neurosci Abstr, 2006. Voluntary
48. Tanaka S, **Perez MA**, Wise S, Willingham DT and Cohen LG. Neural substrates underlying intermanual transfer of procedural knowledge. II Supplementary motor area. 2006 Abstract Viewer/Itinerary Planner. Atlanta, GA: Society Neurosci Abstr, 2006. Voluntary
49. Cohen LG, Wise S, Willingham DT, **Perez MA**. Neural substrates underlying intermanual transfer of procedural knowledge. 2006 Abstract Viewer/Itinerary Planner. Atlanta, GA: Society Neurosci Abstr, 2006. Voluntary
50. **Perez MA**, Nielsen JB, Drucaroff B, Hidler J, Cohen LG. Effect of voluntary contraction of lower limb muscles on motor evoked responses in the contralateral resting leg. 2006 Abstract Viewer/Itinerary Planner. Atlanta, GA: Society Neurosci Abstr, 2006. Voluntary
51. Hodics T, Hidler J, Xu B, **Perez MA**, Shem B and Cohen LG. An event related fMRI motor protocol for studies of neuroplasticity after stroke. 2006 Abstract Viewer/Itinerary Planner. Atlanta, GA: Society Neurosci Abstr, 2006. Voluntary
52. **Perez MA**, Korchi M, Nielsen JB. Origin of late lower limb motor evoked responses in healthy humans. NCM, Key Biscayne, Florida 2006. Voluntary
53. Zuur AT, **Perez M**, Nielsen JB, Sinkjaer T, Grey MJ. Excitability of inhibitory neurons in the human motor cortex during static and dynamic contractions. UCL meeting 2005. Refereed
54. **Perez MA**, Lungholt BK, Nielsen JB. Plasticity in spinal cord circuits evoked by repetitive transcranial magnetic stimulation: possible underlying mechanisms. Abstract: NCM, 2004. Voluntary
55. Oudega M, **Perez MA**, Nielsen JB. Transcranial magnetic stimulation in the rat as a technique for evaluation of transmission in descending pathways following spinal cord injury. 2004 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2004. Voluntary
56. **Perez MA**, Nielsen JB. Reduced soleus h-reflex after training of a task involving co-contraction of antagonistic ankle muscles. 2004 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2004. Voluntary

57. **Perez MA**, Nielsen JB. Changes in corticospinal drive to ankle muscles induced by motor skill training of the ankle muscles in human subjects. 2004 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2004. Voluntary
58. Field-Fote EC and **Perez MA**. Long and short term adaptation of spinal reflexes in individuals with incomplete spinal cord injury. 2002 Abstract Viewer/Itinerary Planner. Orlando, FL: Society Neurosci Abstr, 2002. Voluntary
59. **Perez MA** and Field-Fote EC. Position-dependent modulation of reciprocal Ia inhibition, presynaptic inhibition and motor evoked potentials in individuals with incomplete spinal cord injury. 2002 Abstract Viewer/Itinerary Planner. Orlando, FL: Society Neurosci Abstr, 2002. Voluntary
60. **Perez MA** and Field-Fote EC. Posture-dependent modulation of disynaptic reciprocal Ia inhibition in individuals with incomplete spinal cord injury. The sixth annual graduate student research & creativity forum, 2002. Voluntary
61. **Perez MA** and Field-Fote EC. Contribution of Ia inhibitory pathway to soleus H-reflex in sitting versus standing position: comparison between able-bodied subjects and individuals with incomplete SCI. Abstract: Annual Conference & Exposition of the American Physical Therapy Association, 2001. Refereed
62. Francis M, Porter A, Steinhauser D, Klime M, **Perez M**, Field-Fote EC, Rine R, Seated functional reach: does it correlates with center of pressure measures? Abstract: Annual Conference & Exposition of the American Physical Therapy Association, 2001. Refereed
63. **Perez MA**, Field-Fote EC. Latency and amplitude of motor evoked potentials pre-and post locomotor training in individuals with incomplete spinal cord injury. Abstract: Movement and Sensation International Symposium, Cairns, Australia, 2001. Refereed
64. **Perez MA**, Rine RM, Field-Fote EC. Examination of motor evoked potentials pre-and post-locomotor training in individuals with incomplete SCI. 2001 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2001. Voluntary
65. Field-Fote EC and **Perez M.A.** Spinal cord excitability in subjects with SCI: effects of locomotor training and load. 2001 Abstract Viewer/Itinerary Planner. San Diego, CA: Society Neurosci Abstr, 2001. Voluntary
21. Other works accepted for publication: N/A

V. Professional

22. Funded Research Performed:

Grant Title: *Neural control of bilateral hand and arm movements after spinal cord injury*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: National Institute of Neurological Disorders and Stroke, 1R01NS076589-01
Direct Cost/ Indirect Cost: \$1,083,906/\$463,822
Total Cost/% Effort: \$1,547,728/ 27.5%
Dates: 2011-2016

Grant Title: *Corticospinal function after human spinal cord injury*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: National Institute of Neurological Disorders and Stroke, 1R01NS090622-01
Direct Cost/ Indirect Cost: \$1,093,750/\$566,353
Total Cost/% Effort: \$1,660,103/20%
Dates: 2014-2019

Grant Title: *Maximizing spike timing-dependent plasticity after spinal cord injury*
Principal Investigator: Martin Oudega, PhD
Co-Principal Investigator: Monica A. Perez, P.T., PhD
Agency: VA
Direct Cost/ Indirect Cost: \$1,100,000 / None
Total Cost/% Effort: \$1,100,000 / 63%
Dates: 09/15-08/19

Grant Title: *Enhancement of hand motor function after cervical spinal cord injury*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: Veteran Affairs RR&D Merit Review, 3397626 (App. ID)
Direct Cost/ Indirect Cost: \$912,630/\$0
Total Cost/% Effort: \$912,630/50%
Dates: 2013-2017

Grant Title: *Corticospinal excitability of leg muscles after spinal cord injury*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: Craig H. Neilsen Foundation, Neilsen Pilot Research Grant, 261299 (App. ID)
Direct Cost/ Indirect Cost: \$272,527/\$27,252
Total Cost/% Effort: \$299,779/15%
Dates: 2014-2016

Grant Title: *Role of the motor cortex in recovery of hand function after SCI*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: Center for Military Medicine Research (CMMR)
Direct Cost/ Indirect Cost: \$40,000/\$0
Total Cost/% Effort: \$40,000/10%
Dates: 2014

Grant Title: *Physiological interactions between bilateral upper-limb muscles after chronic incomplete spinal cord injury.*
Principal Investigator: Barbara Bregman
Co- Principal Investigator: Monica A. Perez, P.T., PhD
Agency: National Capital Area Rehabilitation Research Network, Pilot Grant
Direct Cost/ Indirect Cost: \$25,000/\$0
Total Cost: \$25,000
Dates: 2010-2011

Grant Title: *Intermanual transfer of motor learning in healthy and spinal cord injured individuals.*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: National Institute of Neurological Disorders and Stroke, 5R00NS062012-3
Direct Cost/Indirect Cost: \$478,672/\$246,518
Total Cost: \$725,190
Dates: 2009-2012

Grant Title: *Intermanual transfer of motor learning in healthy and spinal cord injured individuals.*
Principal Investigator: Monica A. Perez, P.T., PhD
Agency: National Institute of Neurological Disorders and Stroke, K99NS062012-01
Total Cost: \$250,000
Dates: 2007-2009

Grant Title: *Targeting the ipsilateral M1 to improve hand opening-closing after SCI*
Principal Investigator: Toshiki Tazoe
Mentor: Monica A. Perez, P.T., PhD
Agency: Paralyzed Veteran Affairs, 299064 (App. ID)
Direct Cost/ Indirect Cost: \$138,399/\$11,072
Total Cost/% Effort: \$149,471
Dates: 2014-2016

Grant Title: *Synchronization of corticospinal volleys after tetraplegia*
Principal Investigator: John Cirillo
Mentor: Monica A. Perez, P.T., PhD
Agency: Paralyzed Veteran Affairs, 297333 (App. ID)
Direct Cost/ Indirect Cost: \$91,537/\$7,323
Total Cost/% Effort: \$98,860
Dates: 2014-2016

Grant Title: *Cerebral cortical influences on the stomach*
Principal Investigator: David Levinthal
Co-Mentor: Monica A. Perez, P.T., PhD
Agency: NIH NIDDK, K08 DK101756-01 (App. ID)
Direct Cost/ Indirect Cost: No Cost
Total Cost/% Effort: No Cost
Dates: 2014-2018

Grant Title: *Neurophysiology of Precision Grip After Spinal Cord Injury*
Principal Investigator: Karen Bunday
Mentor: Monica A. Perez, P.T., PhD
Agency: Paralyzed Veteran Affairs, 2821 (App. ID)
Direct Cost/ Indirect Cost: \$92,590/\$7,407
Total Cost/% Effort: \$99,997
Dates: 2011-2013

Grant Title: *Enhance of hand motor function following spinal cord injury by transcranial direct current stimulation*
Post-doctoral Fellow: Monica A. Perez, P.T., PhD
Agency: National Institute of Neurological Disorders and Stroke, NRSA
Total Cost: \$50,000
Dates: 2006-2008

23. Editorial responsibilities:

2012-Present Journal of Motor Control

24. Professional and Honorary Organizations:

2009-Present American Society for Neurorehabilitation
2009-Present American Congress of Rehabilitation
Medicine

2001-Present Society for Neuroscience
2001-Present American Physical Therapy Association
1999-Present Danish Society for Neuroscience

25. Honors and Awards:

2013 Senior Vice Chancellor's Research Seminar Series. Presentation entitled:
"Neural Control of Movement after Spinal Cord Injury"

2008 Presidential Award at the American Congress of Rehabilitation Medicine-
American Society of Neurorehabilitation Annual Meeting

2007 Career Development Award (K99/R00). National Institute of Neurological
Disorders and Stroke

2006 Fellows Award for Research Excellence. National Institute of
Neurological Disorders and Stroke

2002 Outstanding Summer Student Award at the National Institute of
Neurological Disorders and Stroke. Project Entitled: "Plasticity of
Reciprocal Ia Inhibition"

2002 First prize at the Sixth Annual University of Miami School of Medicine
Graduate Student Research and Creativity Forum

1999-2003 Full Scholarship for Ph.D. studies in Physical Therapy at the University of
Miami School of Medicine

26. Post-Doctoral Fellowships:

June 2006 Division of Cerebral Integration, National Institute for Physiological
Sciences (Visiting Fellow)

2005-2008 Human Cortical Physiology Section, National Institute of Neurological
Disorders and Stroke, National Institutes of Health

2003-2005 University of Copenhagen

27. Other Professional Activities:

Seminars and Invited Lectureships

1. 16th International Symposium on Neural Regeneration (ISNR). Neural Devices &
Plasticity. Pacific Grove, CA; November 30 – December 4, 2015.

2. American Congress of Rehabilitation Medicine (ACRM) Annual Conference. Neuroplasticity after Spinal Cord Injury. Dallas, Texas; October 25 – 30, 2015.
3. Motor Control Summer School #XII (MCSS-XII). Antiochiam Village, Ligonier, PA; May 28 – June 1, 2015.
4. Progress in Motor Control X. 10th conference of the International Society of Motor Control. Neural control of movement after Spinal Cord Injury. Budapest, Hungary July 22 – July 25, 2015.
5. The 33rd Annual Neurotrauma Symposium, jointly sponsored by the National Neurotrauma Society and the AANS/CNS Joint Section on Neurotrauma and Critical Care. Plasticity in the corticospinal pathway after spinal cord injury. Santa Fe, New Mexico; June 28 – July 1, 2015.
6. Satellite Society for Neuroscience (SFN) Symposium. Spinal cord plasticity in motor control. Subcortical control of precision after human spinal cord injury. November, 14, 2014.
7. The American Society of Neurorehabilitation (ASNR). Plasticity in Sensorimotor Systems after Spinal Cord Injury: Towards Neurorehabilitation. Washington DC, November 13, 2014.
8. Plenary Lecture: Corticospinal Function after Human Spinal Cord Injury. International Collaboration on Repair Discoveries (ICORD) Annual Research Meeting. Vancouver, Canada; March 4 – 5, 2014.
9. Plasticity in Cortico-Motoneuronal Synapses after Spinal Cord Injury. American Society of Neurorehabilitation-American Congress of Rehabilitation Medicine; Orlando, Florida; November 15, 2013.
10. Neural Prosthesis Seminar. Case Western Reserve University in conjunction with MetroHealth Medical Center and The Cleveland Clinic; Cleveland, OH; October 25, 2013.
11. Motor Control Summer School #X (MCSS-X). Antiochiam Village, Ligonier, PA; July 7 – 11, 2013.
12. Meeting at Ataxia-Telangiectasia Clinical Center at Johns Hopkins Hospital for the Ataxia-Telangiectasia Children's Project. Baltimore, MD. February, 2013.
13. Spinal Cord Injury: Neurophysiology to Therapeutic Interventions. American Physical Therapy Association's Combined Sections Meeting; San Diego, CA; January, 2013.

14. Cortical and Subcortical Contributions to Voluntary Movement in Humans. The American Congress of Rehabilitation Medicine (American Society of Neurorehabilitation-American Congress of Rehabilitation Medicine); Vancouver, Canada; October, 2012.
15. Neural Control of Movement after Spinal Cord Injury. Penn State Kinesiology Colloquium Series; Penn State University, PA; September, 2012.
16. Cortical and Spinal Reorganization after Chronic Spinal Cord Injury. Annual Symposium on Regenerative Rehabilitation; Pittsburgh, PA; November, 2011.
17. Interactions between Primary Motor Cortices During Voluntary Activity. International Opening Symposium Multi-Site Communication in the Brain, University Medical Center Eppendorf; Hamburg, Germany; December, 2011.
18. Motor Control Summer School #VIII (MCSS-VIII). Antiochiam Village, Ligonier, PA; June 9 – 13, 2011.
19. The Functional Role of Interhemispheric Interactions in Human Motor Control. Society for Neuroscience Minisymposium; San Diego, CA; November, 2010.
20. Physiological Changes Underlying Bilateral Arm Movements in Intact Humans. American Congress of Rehabilitation Medicine. American Society of Neurorehabilitation-American Congress of Rehabilitation Medicine Combined Meeting; Montreal, Canada; October, 2010.
21. Using TMS to Study Connectivity in the Context of Motor Behavior. Neural Control of Movement Annual Meeting; Naples, FL; April, 2010.
22. Role of Interhemispheric Interactions between Primary Motor Cortices in Motor Control. The American Congress of Rehabilitation Medicine (American Society of Neurorehabilitation-American Congress of Rehabilitation Medicine); Colorado, USA; October, 2009.
23. Transcranial Magnetic Stimulation and Spinal Cord Injury. The American Congress of Rehabilitation Medicine (American Society of Neurorehabilitation-American Congress of Rehabilitation Medicine), pre-conference course; Colorado, USA; October, 2009.
24. Mechanisms Underlying Functional Changes in the Primary Motor Cortex Ipsilateral to an Active Hand. 14th Annual Congress of the European College of Sport Science; Oslo, Norway; June, 2009.
25. Activity-Dependent Cortical and Spinal Cord Plasticity. Neurobiology of Disease in Children Symposium. Child Neurology Society 37th Annual Meeting; Santa Clara, California; November, 2008.

26. Intermanual Transfer of Motor Skill Learning. Third International Conference on Transcranial Magnetic and Direct Current Stimulation; University of Göttingen, Germany; October 2008.
27. Plastic Changes in Interhemispheric Organization in Relation to Motor Learning and Rehabilitation. Copenhagen Neuroplasticity Symposium; University of Copenhagen, Denmark; November, 2007.
28. Cortical and Spinal Reorganization During Skill Acquisition. University of Leuven, Ph.D. course; Leuven, Belgium; November, 2007.
29. Plasticity during Acquisition of a Motor Skill. Neurobiology Interest Group Seminar Series. National Institute of Neurological Disorders and Stroke, National Institutes of Health; Bethesda, MD; September, 2007.
30. Cortical and Spinal Plasticity after Motor Skill Training and Rehabilitation. Motor Control Satellite Symposium, International Brain Research Organization; Darwin, Australia; July, 2007.
31. The Role of the Supplementary Motor Area in Intermanual Transfer of Motor Sequence Learning. MERGE, National Institute of Neurological Disorders and Stroke, National Institutes of Health; Bethesda, MD; February, 2007.
32. Intermanual Transfer of Procedural Learning: Interhemispheric Inhibition. MERGE, National Institute of Neurological Disorders and Stroke, National Institutes of Health; Bethesda, MD; October, 2006.
33. Cortical Control of Movement BE 532 Sensory Motor Integration, Department of Biomedical Engineering. The Catholic University of America, Washington, D.C.; 2006.
34. Plasticity in the Leg Representation of the Motor Cortex and the Spinal Cord in Human Subjects. International Meeting of the Federation of European Physiological Societies and the Physiological Society; Bristol, England; July, 2005.
35. Motor Skill Training Involving Lower Limb Muscles. Danish Society for Neuroscience meeting; Arhus, Denmark; April, 2005.
36. Plasticity in the Reciprocal Ia inhibitory Pathway Following Spinal Cord Injury. The Miami Project to Cure Paralysis; Miami, FL; March, 2003.
37. Plasticity in the Reciprocal Ia Inhibitory Pathway in Healthy Humans. Combined Session Meeting, Section of Neurology for the American Physical Therapy Association; Tampa, FL; February, 2003.

Reviewer for Scientific Journals and Granting Agencies:

Scientific Journals

2014-Present	J. Neurotrauma
2010-Present	J. Neuroscience
2010-Present	PLOS ONE
2008-Present	Neuroimage
2008-Present	Neurorehabilitation and Neural Repair
2007-Present	Cerebral Cortex
2007-Present	J. Applied Physiology
2006-Present	Brain Research
2006-Present	Human Brain Mapping
2005-Present	J. Physiology
2004-Present	Experimental Brain Research
2004-Present	J. Neurophysiology

Grant Review

2013-Present	Department of Veterans Affairs, Ad-hoc member of the Spinal cord injury/pain panel
2012-2016	National Institutes of Health, Full member of the Sensorimotor Integration (SMI) Study Section, Center for Scientific Review
2012-Present	National Institutes of Health, Ad-hoc member of the Acute Neural Injury and Epilepsy (ANIE) Study Section, Center for Scientific Review
2009-2010	Nation Institutes of Health, Ad-hoc member of the Sensorimotor Integration Study Section at Center for Scientific Review

Symposium Organizer/Chair/Speaker

11/2015	The American Congress of Rehabilitation Medicine (ACRM). “Neuroplasticity after Spinal Cord Injury.” Dallas, TX, USA.
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- 11/2014 The American Society of Neurorehabilitation (ASNR). “Plasticity in Sensorimotor Systems after Spinal Cord Injury: towards neurorehabilitation.” Washington DC, USA.
- 11/2013 The American Congress of Rehabilitation Medicine (ACRM). “Neuroplasticity after Spinal Cord Injury and clinical applications.” Orlando, Florida, USA.
- 01/2013 Combined Section Meeting of The American Physical Therapy Association. “Spinal Cord Injury: from Neurophysiology to Therapeutic Interventions.” San Diego, CA, USA.
- 10/2012 The American Congress of Rehabilitation Medicine (ACRM). “Neural Control of Movement after Spinal Cord Injury.” Vancouver, Canada.
- 10/2010 The American Congress of Rehabilitation Medicine (ASNR-ACRM). “Bilateral arm movements: from neurophysiology to therapeutic interventions.” Montreal, Canada.
- 10/2009 The American Congress of Rehabilitation Medicine (ASNR-ACRM). “What human clinical neurophysiology can teach us about motor control and treatment of motor deficits after CNS lesions?” Colorado, USA.

VI. Teaching

28. Teaching Awards Received: N/A

29. Teaching Specialization:

University Teaching Lectures

- 2015 12th Motor Control Summer School. Neural control of upper-limb movements. Antiochian Village, Ligonier, PA.
- 2013 10th Motor Control Summer School. Brain Stimulation and Imaging: Are there lessons for motor control? Antiochian Village, Ligonier, PA.
- 2012 Spinal cord injury journal club organizer for student and post-doctoral fellows. Center for Neuroscience, University of Pittsburgh.
- 2012 Physiological basis of brain stimulation. Center for Aging and Population Health. Department of Epidemiology. Graduate School of Public Health, University of Pittsburgh.

- 2011 8th Motor Control Summer School. Neural Control of Bilateral Arm Movements in Humans. 8th Motor Control Summer School. Antiochian Village, Ligonier, PA.
- 2010 Journal club lecturer for graduate students. Center for Neuroscience, University of Pittsburgh.
- 2009 Transcranial Magnetic Stimulation and Motor Learning in Humans. Multi-modal neuroimaging summer training workshop. University of Pittsburgh.
- 2006 Cortical control of Movement. BE 532 Sensory Motor Integration, Department of Biomedical Engineering, Catholic University, Washington DC.
- 1999- 2003 Graduate assistant for Neuroscience Course. Master students Physical Therapy School, University of Miami School of Medicine.
30. Thesis and Dissertation Advising/Post-doctoral student supervision:
- Undergraduate Student Mentorship
- | | | |
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| 2013-Present | Michael Savisky
University of Pittsburgh | Control of bilateral forces in intact humans |
| 2013- Present | Timothy Boyanoski
University of Pittsburgh | Motor skill learning after tetraplegia |
| 2013-Present | Richard Macklin
University of Pittsburgh | Changes in motor evoked latencies after tetraplegia |
| 2012-Present | Graeme Meyer
University of Pittsburgh | Kinematic analysis during bilateral arm movements after spinal cord injury |
| 2012-Present | Mitch Nisenson
University of Pittsburgh | Functional neuroanatomy of the wrist and upper arm |
| 2012 | Paul Weschler
Wake Forest University | Summer Student. Effect of visual feedback on voluntary activity after human spinal cord injury |
| 2011-2012 | Lauren Rosenthal
University of Pittsburgh | Coordination between upper limb muscles after spinal cord injury |
| 2011 | Obiorah Agbimson
University of Pittsburgh | Electromyographic analysis of upper limb muscles in spinal cord injured patients |

2011	Akshay Ragu University of Pittsburgh	Electromyographic analysis of hand limb muscles in spinal cord injured patients
2010-2012	Anne Caruso University of Pittsburgh	Visuo-motor skill learning in humans with and without spinal cord injury
2010-2011	Minh Evans University of Pittsburgh	Persistence and amplitude motor evoked potentials in hand muscles
2009-2010	Sarah Briggs University of Pittsburgh	Recruitment of spinal cord injured patient with cervical and thoracic injuries
2009-2010	Abigail Beam University of Pittsburgh	Recruitment of spinal cord injured patients with cervical and thoracic injuries
2009	Michael Light University of Pittsburgh	Electromyographic analysis of upper limb muscles in spinal cord injured patients
2009	Joseph Cuadrado Virginia Tech	Summer student at University of Pittsburgh
2008-2011	Juliette Yedimenko University of Pittsburgh	The effects of bilateral isometric forces in different direction on motor cortical function

Medical Student Mentorship

2014	Sook Kyung Yoon Medical Student University of Pittsburgh	Neurophysiology of brain stimulation
2014	PM&R Resident Rotation (Resident Nora) March, 2014	Modulation of force and EMG after spinal cord injury
2006	Ruth Barta National Institutes of Health	Crossed facilitation of corticospinal projections to leg muscles
2003-2005	Kathinka Nyborg University of Copenhagen	Motor skill training and intracortical inhibition targeting leg muscles
2003-2005	Bjarke K. Lungholt University of Copenhagen	Motor skill training involving leg muscles

Graduate Student Mentorship

2013	Polina Radchenkova Ph.D. student, Neuroscience University of Pittsburgh	Principles of transcranial magnetic stimulation after spinal cord injury
2012	Ima Udofa Ph.D. student, Bioengineering University of Pittsburgh	Review of motoneuronal innervation of the muscles of the arm, extrinsic and intrinsic hand, and upper and lower leg
2011	John Cirillo, Ph.D. student University of Adelaide, Australia	PhD Thesis External Advisor. Human motor cortical plasticity
2009	Sung-Ryul Kim M.S. Student Physical Therapy Health and Rehabilitation Sciences University of Pittsburgh	Changes in bilateral voluntary forces after spinal cord injury
2009	Faisal Asiris Ph.D. student, Physical Therapy University of Pittsburgh	Training effects after spinal cord injury
2008	Michael Lee Ph.D. student Health and Exercise Science U. of New South Wales Australia	PhD Thesis External Advisor. Neural mechanisms involved in cross-limb transfer of strength and ballistic motor learning
2007	Ozioma Okonkwo Ph.D. student National Institutes of Health	Intermanual transfer of motor skill learning in intact humans

Post-Doctoral Associates

2015-Present	Yuming Lei, Ph.D. University of Miami Department of Neurological Surgery	Kinematics of hand actions after spinal cord injury Mentor: Perez, MA
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2015-Present	Michael Urbin, Ph.D. University of Miami Department of Neurological Surgery	Spike-timing dependent plasticity after spinal cord injury Mentor: Perez, MA
2014-Present	Paolo Federico, Ph.D. University of Miami Department of Neurological Surgery	Control of precision grip and hand function after spinal cord injury Mentor: Perez, MA
2014-Present	Jinyi Long , Ph.D. University of Miami Department of Neurological Surgery	Electroencephalographic assessment of motor and premotor cortical areas after spinal cord injury Mentor: Perez, MA
2013-2015	Finnegan Calabro, Ph.D. University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Spinal cord magnetic resonance imaging after spinal cord injury Mentor: Perez, MA
2012-2015	John Cirillo, Ph.D. University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Synchronization of corticospinal descending volleys in incomplete spinal cord injury Mentor: Perez, MA
2012-Present	Toshiki Tazoe, Ph.D. University of Miami Department of Neurological Surgery	The speed of voluntary movements modulates interhemispheric inhibition Mentor: Perez, MA
2011-2012	Melissa Barry, Ph.D. University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Effects of baclofen on GABAergic pathways after chronic spinal cord injury Mentor: Perez, MA

2009-2010	Woo-Hyung Park, Ph.D. University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Corticospinal contribution to bilateral in-phase and out-phase arm movements Mentor: Perez, MA
2009-2013	Karen Bunday, Ph.D. University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Impaired crossed facilitation of the corticospinal pathway after cervical spinal cord injury Mentor: Perez, MA

Research Personnel

2015-Present	Sarah Lehmann, RN. University of Miami Department of Neurological Surgery	Research coordinator, patient recruitment, and IRB Supervisor: Perez, MA
2013-2015	Christine Sanserino, RN, BSN University of Pittsburgh Department of Physical Medicine- and Rehabilitation Systems Neuroscience Institute	Research coordinator, patient recruitment, and IRB Supervisor: Perez, MA

Student/Post-Doctoral Associates Awards

§Notes Trainee under the Direction of Dr. Perez

§John Cirillo	2014 Fritz Krauth Memorial Award by the Paralyzed Veterans of America	Synchronization of corticospinal volleys after tetraplegia
§Finnegan Calabro	2014 Best Post-doctoral Fellow Research Award Rehabilitation research day	Kinematics of bilateral arm movements after human spinal cord injury
§Anne Caruso	2012 Office of Undergraduate Research Small Grant Award	Crossed facilitation of corticospinal drive after human spinal cord injury

§Toshiki Tazoe	2012 Multi-modal Neuroimaging Training Program Summer Workshop in Neuroimaging award	Training program with focus on diffusion tensor imaging techniques
§Karen Bunday	2011 Rehabilitation Research Day, University of Pittsburgh Honors Award	Enhancing neuroplasticity after spinal cord injury
§Ozioma Okonkwo	2007 NINDS outstanding summer student award	Intermanual transfer of learning
§Barta Ruth	2006 NINDS outstanding summer student award	Crossed facilitation of corticospinal projections to leg muscles

VII. Service

31. University Committee and Administrative Responsibilities:

2013- Present	Center for Neuroscience at the University of Pittsburgh (CNUP)	Member of the Admissions Committee
2012-Present	Center for the Neural Basis of Cognition	Member of the Executive Committee
2012-Present	Systems Neuroscience Institute	Coordinator of Principal Investigator Meetings
2012- Present	Department of Physical Medicine and Rehabilitation	Coordinator for Panther Rounds

32. Community Activities: N/A