

***Yu-ping Chen***

*Office*

Department of Physical Therapy  
Georgia State University  
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USA  
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***Education***

<u>Degree</u>	<u>Year</u>	<u>Institution</u>	<u>Major Area</u>
Sc.D.	2001	Boston University	Applied Kinesiology
B.S.	1992	National Taiwan University	Physical Therapy

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***Academic and Research Appointments***

2015/08 – present	Associate Professor, Department of Physical Therapy, Georgia State University
2009/08 – 2015/07	Assistant Professor, Department of Physical Therapy, Georgia State University
2007/08 – 2009/07	Assistant Professor, Department of Physical Therapy, California State University, Fresno
2005/02 – 2007/07	Postdoctoral Research Fellow, Department of Psychology, University of Massachusetts (mentor: Prof. Rachel Keen)
2002/02 – 2005/01	Lecturer, Institute and Faculty of Physical Therapy, National Yang-Ming University, Taipei, Taiwan

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***Professional and Clinical Experience***

2002 – 2004	Physical therapist of Early Intervention Center, Veterans General Hospital, Taipei, Taiwan
1997 – 2001	Research assistant, Department of Physical Therapy, Boston University, Boston, MA
1999 – 2000	Teaching assistant, Department of Physical Therapy, Boston University, Boston, MA
1992 – 1994	Physical therapist, National Taiwan University Hospital, Taipei, Taiwan

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*Awards*

Nomination for University Faculty Award for Undergraduate Research, November 2014

Atlanta Magazine Groundbreaker Award: Playful, Watchful Robot, November 2013

ERRIS Grant Writing Workshop (Jan. 10-14, 2012)

Nomination for Provost Award on Promising New Faculty, 2008

Early Career Award from International Society of Infant Studies, 2006

Research Award from Boston University Science Day, Boston University, 2000

Graduate Scholarship, Sargent College, Boston University, 1998-2001

Taiwan Government Funding for Outstanding Students Studying Abroad, Taipei, Taiwan, 1995-1997

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*Memberships in Professional Organizations*

International Society of Infant Studies  
Society for Research in Child Development  
American Physical Therapy Association  
Physical Therapy Association of Taiwan

Licensed to practice Physical Therapy; New York state, U.S.A.

Licensed to practice Physical Therapy; Taiwan

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*Professional Activities*

*Manuscript Reviewer*

Disability and Rehabilitation, 2015 – present

Pediatric Physical Therapy, 2014 – present

Developmental Neurorehabilitation, 2013 – present

Clinical Rehabilitation, 2013 – present

Physical Therapy, 2012 – present

Journal of Physical Therapy Education, 2012 – present

Applied Bionics and Biomechanics, 2010 – present

Formosan Journal of Physical Therapy, 2003 – present

Human Movement Science, 2002

*Grant Reviewer*

Grant Review Panelist, National Science Foundation, 2013

Early Career Reviewers Program, National Institute of Health, 2014

*Committee*

Abstract Review Committee, Research Section, American Physical Therapy Association, 2015 – present.

Membership Committee, Research Section, American Physical Therapy Association, 2011 – 2014.

Research Committee, Physical Therapy Association of Georgia, 2012 – present.

Group leader of Georgia State University group, Hooked on Evidence, American Physical Therapy Association, 2011 – 2014.

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***Publications:Refereed***

Fanchiang, H.D., Geil, M.D., Wu, J., Chen, Y., Wang, Y. The effects of walking surface on gait pattern of children with idiopathic toe walking. Article accepted by *Journal of Child Neurology*.

Chen, Y., Garcia-Vergara, S., & Howard, A. M. Effect of a home-based virtual reality intervention for children with cerebral palsy using SuperPop VR™ evaluation metrics – A feasibility study. Article accepted by *Rehabilitation Research and Practice*.

Wang, Y. T., Li, Z., Yang, Y., Zhong, Y., Lee, S-Y., Chen, S., & Chen, Y. Effects of Wheelchair Tai Chi on Physical and Mental Health among Elderly with Disability. Article accepted by *Research in Sports Medicine*.

Chen, Y., & Tsai, M-J. (2015). Eye-Hand Coordination Strategies during Active Video Game Playing: An Eye-Tracking Study. *Computers in Human Behavior, 51(Part A)*, 8-14. (Impact factor: 3.047).

Wang, Y. T., Limroongreungrat, W., Chang, L-S., Ke, X., Nemeth, M. E., Tsai, L-C., Chen, Y., Lewis, J., & Sprigle, S. Effects of immediate video feedback on wheelchair skill training for individuals with spinal cord injury. Article accepted by *Journal of Rehabilitation Research and Development*. (Impact factor: 2.458).

Fanchiang, H.D., Geil, M.D., Wu, J., Chen, Y., Wang, Y. (2015). The effects of vibration on the gait pattern and vibration perception threshold of children with idiopathic toe walking. *Journal of Child Neurology, 30(8)*, 1010-1016.

Chen, Y., Caldwell, M., Dickerhoof, E., Hall, A., Odakura, B., Morelli, K. M., & Fanchiang, H. Game analysis, validation, and potential application of EyeToy Play and Play 2 to upper-extremity rehabilitation. *Rehabilitation Research and Practice*. PMID: 25610652. (<http://dx.doi.org/10.1155/2014/279609>).

Chen, Y., Pope, S., Tyler, D., & Warren, G. (2014). Efficacy of constraint-induced movement therapy (CIMT) on the pediatric population with cerebral palsy: A systematic review and meta-analysis. *Clinical Rehabilitation, 28(10)*, 939-953.

Chen, Y., & Howard, A. M. (2014). Effect of Robotic Therapy on Improving Upper-Extremity Function in Children with Cerebral Palsy: A Systematic Review. Article accepted by *Developmental Neurorehabilitation* Epub April 11 2014.

Chen, Y., Lee, S-Y, & Howard, A.M. (2014). Effect of Virtual Reality on Improving Upper-Extremity Function in Children with Cerebral Palsy: A Meta-Analysis. *Pediatric Physical Therapy, 26*: 289-300.

Lee, S-Y, Vasiredd, M., Chen, Y., Wang, Y. T., & Hilliard, J. (2014). PNI biomarkers and health outcomes in college women. *Healthcare, 2(2)*: 207-219.

Chen, Y., & Weaver, L. (2014). Invited Commentary on “Accommodating the Bayley-III with regard to motor and/or visual impairment: a comparative pilot study”. *Pediatric Physical Therapy, 26(1)*: 68.

García-Vergara S, & Chen Y, Howard A. Super Pop VR™: An Adaptable Virtual Reality Game for Upper-Body Rehabilitation. In: Shumaker R, editor. *Virtual*,

*Augmented and Mixed Reality. Systems and Applications*. Volume 8022, Lecture Notes in Computer Science: Springer Berlin Heidelberg; 2013. p 40-49.

Chen, Y., Mitch, A., Chafin, K., & Sargent, R. (2013). The Impact of Body-Scaled Information on Grasping Action in Toddlers with and without Down Syndrome. Internet Journal of Allied Health Sciences and Practice, 11(3): 1-7. (Peer-Reviewed)

Lee, S-Y., Wuertz, C., Rogers, R. & Chen, Y. (2013). Stress and sleep disturbances in female college students. American Journal of Health Behavior, 37(6), 851-858. PMID: 24001634

García-Vergara S, & Chen Y., Howard A. Super Pop VR™: An Adaptable Virtual Reality Game for Upper-Body Rehabilitation. In: Shumaker R, editor. Virtual, Augmented and Mixed Reality. Systems and Applications. Volume 8022, Lecture Notes in Computer Science: Springer Berlin Heidelberg; 2013. p 40-49.

Haddad, J. M., Chen, Y., & Keen, R.(2011). Preschooler's Search for a Hidden Object. Journal of Experimental Child Psychology, 109: 123-131. PMID: 21238978

Fetters, L., Sapir, I., Chen, Y., Kubo, M., & Tronick, E. Z. (2010). Spontaneous Kicking in Full-Term and Preterm Infants With and Without White Matter Disorder. Developmental Psychobiology, 52(6): 524-536. PMID: 20806325

Chen, Y., Keen, R., Rosander, K., & von Hofsten, C. (2010). Movement Planning Reflects Skill Level and Age Changes in Toddlers. Child Development, 81(6):1846-1858. PMID:21077868

Chen, Y., Kang, L-J, Chuang, T-Y., Doong, J-L., Lee, S-J., Tsai, M-W., Jeng, S-F., & Sung, W-S. (2007). The Use of Virtual Reality to Improve Upper Extremity Control in Children with Cerebral Palsy: A Single-Subject Design. Physical Therapy, 87(11): 1441-1457. PMID:17895352

Chen, Y., & Yang, TF (2007). Effect of Task Goals on the Reaching Patterns of Children with Cerebral Palsy. Journal of Motor Behavior, 39 (4):317-325. PMID: 17664173

Kang, L-J., Chen, Y\*., Sung, W-S., Chuang, T-Y., Lee, S-J., Tsai, M-W., Jeng, S-F., & Doong, J-L. (2005). Training Effects of Virtual Reality on Reaching Behavior in Children with Cerebral Palsy: Case Report. Formosan Journal of Physical Therapy, 30(6):339-347. (Peer-Reviewed)

Chen, Y., Lee, H-C., Wang, W. T-Z., Yang, Y-R., Lee, S-J., Lin, H-C., & Wang, R-Y. (2004). Projection of Supply and Demand of the Physical Therapy Manpower in Taiwan for the Next Twenty Years: Part I. Current Status and Productivity of Physical Therapists and Physical Therapist Assistants. Formosan Journal of Physical Therapy, 29(5):281-292. (Peer-Reviewed)

Fetters, L., Chen, Y., Jonsdottir, J., & Tronick, E. Z. (2004). Kicking coordination captures differences between full-term and premature infants with white matter disorder. Human Movement Science, 22(6):729-748. PMID: 15063051

Tronick, E. Z., Fetters, L., Olson, K., & Chen, Y. (2004). Similar and functionally typical kinematic reaching parameters in 7- and 15-month-old in utero cocaine-exposed and unexposed infants. Developmental Psychobiology, 44(3): 168-175. PMID: 15054885

Yeh, T-C., Lee, S-J., Lin, C-S., Chu, P-C, Wang, H-P., Tsai, M-W., Chen, Y., & Tzeng, M-J. (2004). An Investigation of Educational Barrier-Free Environment in Taiwan- Using I-Lan County as an Example. Formosan Journal of Physical Therapy, 29(2), 88-100. (Peer-Reviewed)

Chen, Y., Fetters, L., Saltzman, E.L., & Holt, K.G. (2002). Making the mobile move: Constraining from task and environment. Infant Behavior and Development, 25(2): 195-220. (Social Science Citation Index).

Chen, Y., Fetters, L. (2002). A comparison of the leg coordination patterns of preterm and fullterm infants: A meta-analysis. Formosan Journal of Physical Therapy, 27(6), 303-313. (Peer-Reviewed)

Chen, Y. (2001). A review of constraints on the emergence of reaching. Formosan Journal of Physical Therapy, 26(5), 230-240. (Peer-Reviewed)

Chen, Y. (2001). Effects of Constraints on the Emergence of Infant Kicking. Unpublished Doctoral Dissertation. Boston University, Boston, MA, U.S.A.

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***Publications : in Submission or in Preparation***

Chen, Y., Garcia, S., & Howard, A. M. Test-retest reliability and minimal detectable change of SuperPop in healthy adults. Article submits to *Gait & Posture*.

Garcia, S., Chen, Y., & Howard, A. M. An objective method for quantifying upper-body extremity movements using a robot kinematic model. Article submits to *Journal of Biomedical and Health Informatics*.

Fanchiang, H.D., Geil, M.D., Wu, J., Chen, Y., Wang, Y. The effects of walking surface on gait pattern of typically developing children. Article submits to *Gait & Posture*.

Chen, Y. Effect of precision constraints on the emergence of toddler reaching movements. Article in preparation.

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***Full Paper from Refereed Conference Proceedings***

Garcia-Vergara, S., Brown, L., Chen, Y., & Howard, A. M. (2016). Increasing the efficacy of rehabilitation protocols for children via a robotic playmate providing real-time corrective feedback. *IEEE International Symposium on Robot and Human Interactive Communication*, Columbia University, New York City, NY, USA, August 26-31, 2016.

Serrano, M., Chen, Y., Howard, A., & Vela, P. A. (2016). Automated foot detection for clinical gait assessment. *IEEE Engineering in Medicine and Biology Society*, Orlando, FL, USA, August 16-20, 2016.

Serrano, M., Chen, Y., Howard, A., & Vela, P. A. (2016). Lower limb pose estimation for monitoring the kicking patterns of infants. *IEEE Engineering in Medicine and Biology Society*, Orlando, FL, USA, August 16-20, 2016.

Garcia-Vegara, S., Serrano, M. M., Chen, Y., Howard, A. M. (2014). Developing a baseline for upper-body moto skill assessment using a robotic kinematic model. *IEEE International Conference on Robot and Human Interactive Communication*.

Garcia-Vergara, S., Chen, Y., & Howard, A. M. An objective method for quantifying upper-body extremity movements while tracking movements of children who have cerebral palsy. Article accepted by *Human Computer Interaction*.

Howard, A., Brooks, D., Brown, E., Gebregiorgis, A. & Chen, Y. (2013). Non-contact versus contact-based sensing methodologies for in-home upper arm robotic rehabilitation. In *International Robotics (ICORR)*. *IEEE International Conference on Rehabilitation Robotics*, p 1-6.

Chen, Y., & Tsai, M-J (2013). Different eye movements during active video games: An eyetracking pilot study. *Proceedings of the Association for Educational*

Communications and Technology (AECT) International Conference on the Frontier in e-Learning Research, 2013, Taichung, Taiwan, June 18-20, 2013.

Nixon, M., Chen, Y., & Howard, A. (2013). Quantitative evaluation of the Microsoft Kinect™ for use in an upper extremity virtual rehabilitation environment. International Conference on Virtual Rehabilitation, p222-228.

Garcia-Vergara, S, Chen, Y., & Howard, A. (2013). Super Pop VR(TM): an Adaptable Virtual Reality Game for Upper-Body Rehabilitation. International Conference on Human-Computer Interaction (HCI 2013), Las Vegas, NV, USA, July 21-26, 2013.

Brooks, D., Chen, Y., & Howard, A. (2012). Simulation versus Embodied Agents: Does either induce better human adherence to physical therapy exercise? IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob2012), p1715-1720.

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*Abstracts from Conference Proceedings*

Danish, E., Epling, S., Smelser, N., Zhang, Y., Chen, Y\*, Garcia-Vergara, S., Howard, A. M., Weissman, B., & Hallman-Cooper, J. (2016). Virtual Reality Gaming System can be Used in Home Based Treatment in Children with Cerebral Palsy: A Case Study. A poster will be presented at NEXT conference, American Physical Therapy Association, Nashville, TN, June 8-11, 2016.

Bermudez, E., Layman, M., Shepard, E., Chen, Y., Garcia-Vergara, S., & Howard, A. M. Test-retest reliability and minimal detectable change in the Super Pop VR™ game in healthy children. A poster will be presented at Combined Sections Meeting, American Physical Therapy Association, Anaheim, CA, February 17-20, 2016.

Chen, Y., Garcia, S., & Howard, A. M. (2015). Effect of a home-based virtual reality intervention for children with cerebral palsy using SuperPop VR™ evaluation metrics – A feasibility study. A poster presented at NEXT conference, American Physical Therapy association, National Harbor, MD, United States, June 3-6, 2015.

Chen, Y., Garcia, S., & Howard, A. M. (2015). Test-retest reliability and minimal detectable change of SuperPop in healthy adults. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Indianapolis, IN, United States, February 3-6, 2015.

Denmark, B., Harrod, A., Steele, B., Weekley, T., Garcia-Vergara, S., Howard, A., & Chen, Y. (2014). Effect of virtual reality intervention on upper-extremity function in a child with cerebral palsy: A case study. A poster presented at Fall Meeting, Physical Therapy Association of Georgia, Atlanta, GA, United States, September 27-28, 2014.

Chen, Y., Lee, S-Y., Howard, A. M. (2014). Effect of Virtual Reality on Improving Upper-Extremity Function in Children with Cerebral Palsy: A Meta-Analysis. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, February 3-6, 2014. *Pediatric Physical Therapy*, 26(1), p.112

August, D, Harper, S., Perry, L., Pollard, K., Williams, L., & Chen, Y. (2014). Effect of Different Practice Schedule of a Home-Based Virtual Reality Intervention on Upper-Extremity Function in Children with Cerebral Palsy: A Pilot RCT. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Las Vegas, NV, February 3-6, 2014. *Pediatric Physical Therapy*, 26(1), p.107

Caldwell, M., Dickerhoof, E., Hall, A., Odakura, B., & Chen, Y. (2013) Potential use of upper-extremity virtual reality games for typical children to promote physical activity.

A poster will be presented at Fall Meeting, Physical Therapy Association of Georgia, Atlanta, GA, October 18-20.

Howard, A., Brooks, D., Brown, E., Gebregiorgis, A. & Chen, Y. (2013). Non-contact versus contact-based sensing methodologies for in-home upper arm robotic rehabilitation. International Conference on Rehabilitation Robotics, Seattle, WA, USA, June 24-26, 2013. (Full paper)

August, D, Harper, S., Perry, L., Pollard, K., Williams, L., & Chen, Y. (2013). Effect of Different Practice Schedule of a Home-Based Virtual Reality Intervention on Upper-Extremity Function in Children with Cerebral Palsy: A Pilot RCT. A poster presented at South Carolina Physical Therapy Annual Conference, May 1-2, 2013.

Chen, Y., & Tsai, M-J (2013). Different eye movements during active video games: An eyetracking pilot study. Association for Educational Communications and Technology (AECT) International Conference on the Frontier in e-Learning Research 2013, Taichung, Taiwan, June 18-20, 2013. (Full paper)

Nixon, M., Chen, Y., & Howard, A. (2013). Quantitative evaluation of the Microsoft Kinect™ for use in an upper extremity virtual rehabilitation environment. International Conference on Virtual Rehabilitation, Philadelphia, PA, USA, August 26-29, 2013. (Full paper)

Garcia-Vergara, S, Chen, Y., & Howard, A. (2013). Super Pop VR(TM): an Adaptable Virtual Reality Game for Upper-Body Rehabilitation. International Conference on Human-Computer Interaction (HCI 2013), Las Vegas, NV, USA, July 21-26, 2013 (full paper).

Baker, A., Knighton, D., Thai, J., Chen, Y., & Warren, G. (2012). Effect of AFOs on Children with Cerebral Palsy: A Systematic Review and Meta-Analysis. A poster presented at Fall Meeting, Physical Therapy Association of Georgia, Dahlonga, GA, October 12-14.

Brooks, D., Chen, Y., & Howard, A. (2012). Simulation versus Embodied Agents: Does either induce better human adherence to physical therapy exercise? A poster presented at 4th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob2012), Rome Italy, June 24-27, 2012.

Chafin, K., Mitch, A., Sargent, R., & Chen, Y. (2012). The Impact of Body-Scaled Information on Grasping Action in Toddlers with and without Down Syndrome. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Chicago, Illinois, February 8-11.

Pope, S., Tyler, D., Chen, Y., & Warren, G. (2011). Efficacy of Constraint-Induced Movement Therapy (CIMT) on the Pediatric Population with Cerebral Palsy: A Systematic Review and Meta-Analysis. A poster presented at Fall Meeting, Physical Therapy Association of Georgia, Dahlonga, GA, October 29-31.

Chen, Y., & Keen, R. (2010). Reaching for Objects in Light and Dark. A poster presented at Biennial Conference, International Society of Infant Study, International Conference of Infant Study, Baltimore, USA, March 10-14.

Howard, A., Brooks, D., & Chen, Y. (2010). Non-Contact Robotic Assessment of Upper Limb Movements. A poster presented at North American Neurorehabilitation Symposium, Atlanta, GA, USA, August 27-28.

Fujii, Y., Chen, Y., & Trueblood, P. R. (2010). Effects of the External Cues on the Performance of People with Parkinson's Disease in Single and Dual Task Contexts. A poster presented at Combined Sections Meeting, American Physical Therapy Association, San Diego, California, February 17-20.

Haddad, J. M., Chen, Y., & Keen, R. (2009). Preschooler's Search for a Hidden Object. A poster presented at Biennial Conference, Society for Research in Child Development, Denver, Colorado, April 2-4, 2009.

Chen, Y. & Keen, R. (2009). Continuity in Toddlers' Fine Motor Task. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Las Vegas, Nevada, February 9-12, 2009

Chen, Y. & Keen, R. (2008). Continuity in Toddlers' Skill in a Fine Motor Task. A poster presented at International Society of Infant Study, International Conference of Infant Study, Vancouver, Canada, March 27-30, 2008

Chen, Y., Keen, R., Rosander, K., & von Hofsten, C. (2006). Reaching Kinematics of Precise and Imprecise Tasks in Toddlers. A poster presented at International Society of Infant Study, International Conference of Infant Study, Kyoto, Japan, June 20-22, 2006.

Chen, Y., Fetters, L., Holt, K.G., & Saltzman, E.L. (2004). Manipulation of Actor-Environment Fit on Young Infants. A poster presented at International Society of Infant Study, International Conference of Infant Study, Chicago, U.S.A., May 5-8, 2004

Chen, Y., Fetters, L., Holt, K.G., & Saltzman, E.L. (2003). Effects of Constraints on the Kicking Kinematics of Young Infants. A poster presented at Progress In Motor Control, IV, International Society of Motor Control, Caen, France, August 19-23, 2003.

Fetters, L. Huppi, P. Chen, Y. Correlation of Structural Brain Development with Motor Coordination in VLBW infants. A poster presented at Combined Sections Meeting, American Physical Therapy Association, Tampa, Florida, U.S.A., February 2003.

Chen, Y., Fetters, L., Holt, K.G., & Saltzman, E.L. (2002). Effects of constraints on the Emergence of Kicking in Young Infants. A poster presented at International Society of Infant Study, International Conference of Infant Study, Toronto, Canada, April 18-22, 2002.

Chen, Y., Fetters, L., Holt, K.G., & Saltzman, E.L. (2001). Effect of a Contingent Mobile Reinforcement on the Emergence of Leg Movements. A poster presented at International Society of Posture and Gait, Annual Conference, June 2001, Maastricht, The Netherlands.

Fetters, L., Chen, Y., & Jonsdottir, J. (2001) Dynamic Organization of Leg Movements of Premature Very Low Birthweight Infants. A poster presented at International Society of Posture and Gait, Annual Conference, June 2001, Maastricht, The Netherlands.

Chen, Y., Fetters, L., Holt, K. G., & Saltzman, E. L. (2001). Effect of a Contingent Mobile Reinforcement on the Emergence of Leg Movements. A poster presented at Motor Development and Learning in Infancy: Behavioural, Neurological and Modeling Issues, 1<sup>st</sup> Conference, May 30 – June 2 2001, Amsterdam, The Netherlands.

Figueiredo EM, Tsao C, McSweeney D, Chen Y., Tucker C, Saltzman E, Fetters, L. Kinematic Analysis of Quiet Standing of Premature Infants at 36 Months of Age. A poster presented at Motor Development and Learning in Infancy: Behavioural, Neurological and Modeling Issues, 1<sup>st</sup> Conference, May 30 – June 2, 2001, Amsterdam, The Netherlands.

Fetters, L., Huppi, P., Chen, Y. et al. Correlation of Structural Brain Development Assessed with Advanced MR Techniques and Motor Coordination Assessed with Kinematic Analysis in VLBW Infants. A platform presented at American Pediatrician Association, Pediatric Academic Societies Meeting, April, 2001, Baltimore, Maryland, United States.



Figueiredo EM, Tsao C, McSweeney D, Chen Y, Tucker C, Saltzman E, Fetters, L. Kinematic Analysis of Quiet Standing of Premature Infants at 36 Months of Age. A poster presented at American Physical Therapy Association, Combined Sections Meeting, February 2001, San Antonio, Texas, United States.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z. (2000). The Effect of Task on Reaching of Infants Exposed to Polydrugs. A poster presented at International Society of Infant Study, International Conference of Infant Study, July 19-24, Brighton, England, United Kingdom.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z. (2000). The Effect of Task on Reaching of Infants Exposed to Polydrugs. A poster presented at Boston University, Graduate Students Science Day, March 2000, Boston, Massachusetts, United States.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z. (2000). The Effect of Task on the Reaching of Infants Exposed to Cocaine. A paper presented at American Physical Therapy Association, Combined Sections Meeting, February 2000, New Orleans, Louisiana, United States.

Fetters, L., Beeghly, M., Tronick EZ, Olson KL, Jonsdottir J, Chen Y, Holling EE. (2000). Psychomotor development of premature infants with white matter disorder. A poster presented at American Physical Therapy Association, Combined Sections Meeting, February 2000, New Orleans, Louisiana, United States.

Fetters, L., Beeghly, M., Tronick EZ, Olson KL, Jonsdottir J, Chen Y, Holling EE. (1999). Psychomotor development of premature infants with white matter disorder. A poster presented at Society of Research in Child Development, Biennial Conference, April 1999, Albuquerque, New Mexico.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z. (1998). Exploratory Behaviors in Cocaine Exposed Infants. A poster presented at Boston University, Graduate Students Science Day, March 1998, Boston, Massachusetts, United States.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z. (1998). Exploratory Behaviors in Cocaine Exposed Infants. A poster presented at American Physical Therapy Association, Combined Sections Meeting, February, 1998, Boston, Massachusetts, United States.

Chen, Y., Fetters, L., Beeghly, M., & Tronick, E. Z., (1997). Exploratory Behaviors of Infants Exposed to Cocaine and Control Infants from 7 to 15 Months. A paper presented at the Society of Developmental and Behavioral Pediatrics, Annual Conference, September, 1997, Dedham, Massachusetts, United States.

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### ***Grants: Research***

#### *Emory-Georgia Tech Healthcare Innovation Program (HIP)*

“Effectiveness of Functional Strength Training in Virtual Reality Games for Improving Arm Function in Children with Cerebral Palsy- A Pilot Sequential Multiple Assignment Randomized Trial (SMART) Design.”

Y. Chen (PI); February 1, 2016 – January 31, 2017; \$25,000

#### *Center for Transforming Pediatric Healthcare Delivery, Georgia Tech and Children’s Healthcare of Atlanta Pediatric Research Center Pilot Program*

“Effectiveness of Rhythmic Auditory Stimulation in Virtual Reality Games for Improving Upper-Arm Function in Children with Cerebral Palsy”

Y Chen (Co-PI; with PI: A. Howard, Georgia Institute of Technology); August 1, 2014 – March 31, 2016; \$50,000 (GSU portion: \$18,787)

*National Science Foundation*

“NRI-Small: Robot Movement for Patient Improvement - Therapeutic Rehabilitation for Children with Disabilities”  
Y Chen (co-PI; PI: A. Howard, Georgia Institute of Technology); Oct. 1, 2012 – Sep. 30, 2016; \$632,516 (GSU portion:\$120,050)

*Grammy Foundation*

“Examining the Effect of Music Therapy on Virtual-Reality Interventions for Improving Upper Extremity Function in Children with Cerebral Palsy”  
Y Chen (co-PI; PI: A. Howard, Georgia Institute of Technology); March 1, 2012 – Feb. 28, 2013; \$ 6,994 (GSU portion)

*Georgia State University, School of Nursing and Health Professions Intramural Research Funding*

“Effect of Different Practice Schedule of a Home-Based Virtual Reality Intervention on Upper-Extremity Function in Children with Cerebral Palsy: A Randomized Control Trial”  
Y Chen (PI)  
Dec 1, 2011– June 30, 2012; \$7,000

*Georgia State University, College of Health and Human Sciences Intramural Research Funding*

“Effect of Precision Task on Reaching Behaviors in Infants with Down Syndrome”  
Y Chen (PI)  
July 1, 2010 – Dec. 10, 2010; \$ 4,956.40

*California State University, Fresno, College of Human and Health Services Research Funding*

“Constraints on Infant Kicking”  
Y Chen (PI)  
January 1, 2009 – June 30, 2009; \$1,500

*Central Valley Health Policy Institute, Interdisciplinary Health Policy Research Fellowship*

“Developmental Outcome of the Low-Birth Weight Infants Born in Families with Little or No Health Insurance Coverage”  
Y Chen (PI)  
Sep 1, 2008 – June 30, 2009; \$ 15,000

*California State University, Fresno, Provost Research Activity Award*

“Effects of the External Cues on the Performance of People with Parkinson’s Disease in Single and Dual Task Contexts”  
Y Chen (PI)  
June 1, 2008 – June 30, 2009; \$ 15,401

*California State University, Fresno, College of Human and Health Services Research*

*Funding*

“Spoon Use in Preterm Infants”

Y Chen (PI)

January 1, 2008 – June 30, 2008; \$1,500

*National Science Council, Taiwan*

“Effects of Task Goals and Target Sizes on the Emergence of Reaching in Young Children with and without Cerebral Palsy”

Y Chen (PI)

August 1, 2003 – July 31, 2005; \$ 27,500

“Effect of Precision Constraints on the Emergence of Taiwanese Infants Reaching – A Longitudinally Preliminary Study”

Y Chen (PI)

October 1, 2002 – July 31, 2003; \$13,000

*Dudley Allen Sargent Grant, Boston University*

“The Effects of Constraints on Leg Movement in Young Full Term Infants”

Y Chen (PI)

March 1, 2000 – February 28, 2001; \$ 1,673

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*Experience and Skills*

*Teaching:*

Normal/atypical development (undergraduate and graduate level)

Research Methodology (graduate level)

Evidence-based Practice (graduate level)

Clinical Decision Making in Practice (graduate level)

Elementary Statistics (graduate level)

Pediatric Physical Therapy (graduate level)

Evidence-Based Practice (DPT level)

*Computer skills:*

MATLAB, SAS, SPSS, Stativew, Microsoft office (Excel, Word, Powerpoint)

*Languages:*

Mandarin (Chinese), Taiwanese, English