

Curriculum Vitae

Marybeth Grant-Beuttler, PT, PhD, PCS
Associate Professor
Department of Physical Therapy
Crean School of Health & Life Sciences
Schmid College of Science & Technology
Chapman University

Education:

Drexel University Ph.D. in Movement Sciences September 1999- December 2004
Hahnemann Programs in
Rehabilitation Sciences
Philadelphia, PA

Major areas of study: Biomechanics and Motor Control Issues in Human Movement
Dissertation title: Muscle Extensibility and Ankle Kinematics during Supine Kicking in Infants
Born Preterm and Infants Born Full term

University of North Carolina - Chapel Hill M.S. in Human Movement Sciences September 1994- December 1997
Chapel Hill, NC

Major areas of study: Human Movement with an emphasis in the fetus and preterm infant, statistics,
and research
Thesis title: Fetal and Newborn Movements in Preterm and Full term Infants

Northwestern University B.S. in Physical Therapy June 1986- October 1987
Programs in Physical Therapy
Chicago, IL

Augustana College No degree awarded- September 1983- June 1986
Rock Island, IL accepted to Northwestern
Major areas of study: Psychology, Biology, and Pre-Physical Therapy

Advanced Certifications:

Pediatric Clinical Specialist
-May 2006, certified by the American Physical Therapy Association

Neonatal Individualized Developmental Care and Assessment Program Certification (NIDCAP)
-September 1995, certified by James Helm, EdD

Pediatric Neurodevelopmental Treatment Certification
-November 1991, certified by Marjorie Adams, MA, PT

Prenatal and Postpartum Exercise Instruction Certification
-May 1989, certified by Elizabeth Noble, PT

Licensure:

California Physical Therapy License Certificate # PT-33373 Expiration date: March 31, 2014

Employment and Positions Held:

Chapman University Department of Physical Therapy One University Drive Orange, CA 92866	Associate Professor Assistant Professor	August 2012 – present August 2006- July 2012
Physical & Occupational Therapy in Pediatrics	Editorial Board Member	June 2013 - present
Duties: Review and assign manuscripts for the journal.		
The Children's Therapy Center 12881 Knott Street Garden Grove, CA 92641	Contract Pediatric Specialist	February 2013 - present
Duties: Pediatric outpatient treatment and physical therapy supervision ~ 4-6 hours/week		
University of Scranton 800 Linden Street Scranton, PA 18510-4586	Tenure Granted- January 2005 Assistant Professor (8/2001) Instructor (8/1999-7/2001) Lecturer (8/1998-7/1999)	August 1998 – May 2006
Pediatric and Adult Therapy Services Aaron Center 851 Commerce Blvd. Dickson City, PA 18519	Pediatric Physical Therapist	Dec 2002- June 2006
Duties: Pediatric physical therapy evaluation and intervention for children enrolled in early intervention and all other types of private and state funded programs.		
Western Wayne School District P.O. Box 220 South Canaan, PA 18459	Pediatric Physical Therapist	Summer 2005
Duties: Physical therapy intervention for all elementary students in the summer school program.		
Physical Therapy Case Reports 5700 – 103 Magellan Way Raleigh, NC 27612-2254	Assistant Editor	October 1997 – July 1998
Duties: Contacting authors for submissions; reviewing books, web pages, and computer programs; public relations to Post-professional Physical Therapy schools; requesting materials for review from publishers; other assorted projects related to preparing the journal for submission to publisher.		
Chapel Hill – Carrboro School District Lincoln Center – Merritt Mill Road Chapel Hill, NC 27514	Pediatric Physical Therapist	March 1996 – July 1998
Duties: Evaluation, intervention, and problem solving gross motor activities in a school setting. Caseload included preschool, elementary, and middle school aged children.		
Duke University Lenox Baker Children's Hospital 3000 Erwin Road Durham, NC 27705	Pediatric Physical Therapist	May 1996 – June 1996
Duties: Temporary staff position for Physical Therapist on maternity leave		

Easter Seals Society of North Carolina 2315 Myron Drive Raleigh, NC 27607	Pediatric Physical Therapist	June 1995 – Sept. 1995
Duties: Evaluation and treatment in patient's homes		
Orange County Association for Handicapped and Retarded Citizens 249 Broadway Newburgh, New York 12550	Pediatric Physical Therapist	Oct. 1993 – Aug. 1994
Duties: Evaluation and treatment in a special education setting, positioning in the classroom, coordination of classroom goals with the teacher and other disciplines, equipment monitoring and ordering, and supervision of PTA's.		
Long Beach Memorial Medical Center Miller's Children Hospital 2801 Atlantic Blvd. Long Beach, CA 90008	Pediatric Clinical Specialist	Sept. 1988 – Aug. 1993
Duties: Acute pediatric inpatient evaluation and treatment, outpatient pediatric evaluation and treatment, acute pediatric inpatient rehabilitation, follow-up evaluations of NICU graduates, high-risk obstetric evaluation and treatment, teaching prenatal/postnatal exercise, coordination of inservices and teaching for OT, Speech Pathology, and PT staff, supervision of aides.		
The Children's Therapy Center 12881 Knott Street Garden Grove, CA 92641	Contract Pediatric Specialist	August 1993
Duties: Pediatric outpatient treatment		
NeuroCare, Inc. 1001 Galaxy Way, Suite 400 Concord, CA 94520	Contract Pediatric Specialist	Feb. 1993 – Aug. 1993
Duties: Pediatric rehabilitation home care		
Annette Levey & Associates 310 Washington St., Plaza 111 Marina Del Rey, CA 90292	Physical Therapist	July 1998 – Sept. 1988
Duties: Acute inpatient and outpatient evaluation and treatment at La Habra Community Hospital. Program development for prenatal and postnatal exercise classes and TENS or labor.		
Bevilacqua Physical Therapy Service 412 W. Carroll Ave., Suite #108 Glendora, CA 91740	Physical Therapist	Oct. 1987 – July 1988
Duties: Acute inpatient and outpatient at Foothill Presbyterian Hospital and a private outpatient office.		

Reviewed Publications:

Beuttler R, Grant-Beuttler M, Rakovski C, Allali M. Early walking in toddlers post preterm and full term birth. In preparation.

Grant-Beuttler M, Beuttler R, Glynn L, Rakovski C. Adaptation of the gastrocnemius-soleus during gait development in typical children 0-7 years. In preparation.

Gannotti M, O'Neill M, Bailes A, Bjornson K, **Grant-Beuttler M**. Population Datasets for measuring child health and function: What can they tell us about the effectiveness of pediatric rehabilitation services? Submitted.

Grant-Beuttler M, Heriza C, Palisano R, Wagner B, Miller D, Karduna A. Ankle Movements during Supine Kicking in Infants Born Preterm. Submitted.

Hollandsworth CR, **Grant-Beuttler M**. Commentary on "Physical Activity of Children with a Mitochondrial Disease Compared to Children who are Healthy". *Ped Phys Ther*. 2014;26(1),27.

Menz S, Hatten K, **Grant-Beuttler M**. Strength-Training in a Child with Motor Delays Consistent with Developmental Coordination Disorder: A Case Report. *Pediatric Physical Therapy*. 2013;25:214-223.

Grant-Beuttler M & Drndarski K. Commentary for "Beyond Fitness: The psychosocial benefits of an inclusive community-based aquatics program". *Pediatric Physical Therapy*. 2012;24(4),368.

Grant-Beuttler M, Glynn L, Salisbury A, Davis EP, Holliday C, Sandman C. Fetal Movement in Response to Vibro-acoustic Stimulation at 26 and 36 Week Gestation. *Frontiers in Psychology*. 2011;2:350. doi: 10.3389/fpsyg.2011.00350.

Grant-Beuttler M, Palisano R, Miller D, Wagner B, Heriza C, Shewokis P. Gastrocnemius/soleus muscle tendon unit changes in infants born preterm over the first 12 weeks of adjusted age. *Physical Therapy*. 2009;89(2): 136-148.

Grant-Beuttler M, Palisano R, Miller D, Wagner B, Heriza C, Shewokis P. Author response to Invited Commentary by Heathcock [commentary for: Gastrocnemius/soleus muscle tendon unit changes in infants born preterm over the first 12 weeks of adjusted age.] *Physical Therapy*. 2009;89(2): e2-e4 [online]. Available at <http://www.ptjournal.org/cgi/content/full/89/2/e2>. Accessed February 2, 2009.

Grant-Beuttler M, Shewokis P. (2007) Muscle tendon unit comparisons between infants born preterm and infants born fullterm: A pilot study. *Pediatric Physical Therapy*. 19(4): 309-314.

Hakim R, Kelly S, **Grant-Beuttler M**, Healy B, Krempasky J, Moore S. (2005). Case Report: A Modified Constraint-Induced Therapy (mCIT) Program for the Upper Extremity of a Person with Chronic Stroke. *Physiotherapy: Theory & Practice*. 21(4):243-256.

Grant-Beuttler M, Leininger P, Palisano R. (2004). Reliability of a Measure of Muscle Extensibility in Fullterm and Preterm Newborns. *Physical & Occupational Therapy in Pediatrics*, 24(1/2), 173-185.

Grant-Beuttler M & Wagner B. Case 4. In Brimer & Moran (editors) Clinical Cases in Physical Therapy, 2nd Edition. Philadelphia: Butterworth & Heinemann; 2004.

Grant-Beuttler M. Case 12. In Brimer M & Moran M (editors). Clinical Cases in Physical Therapy, 2nd Edition. Philadelphia: Butterworth-Heinemann; 2004.

Peer Reviewed Scientific and Professional Presentations:

**authors in italics are students*

Ehrlich N, Hackett K, Grant-Beuttler M, Swan C, Hatten K. Effects of Hippotherapy on Children with Cerebral Palsy: A Systematic Review. (Pediatric Section of the APTA)
February 3-6, 2014 Combined Sections Meeting of the American Physical Therapy Association. Las Vegas, NV

Sabovich S, Wong L, Grant-Beuttler M. Factors Affecting Balance in Normally Developing 5-Year-Olds.
(Pediatric Section of the APTA)
February 3-6, 2014 Combined Sections Meeting of the American Physical Therapy Association. Las Vegas, NV

Atienza D, Bennett N, Glynn L, **Grant-Beuttler M.** Reference Data for Normally Developing 5-year-olds Utilizing the Balance Master's mCTSIB. (Pediatric Section of the APTA)
January 21-24, 2013 Combined Sections Meeting of the American Physical Therapy Association. San Diego, CA

Freeman JA, Guy AR, Rader AD, **Grant-Beuttler M,** Cipriani D. A comparison of functional outcomes using Toe-OFF dynamic ankle-foot orthoses in a healthy adult population: A pilot study. (Orthopedic Section of the APTA)
February 8-11, 2012 Combined Sections Meeting of the American Physical Therapy Association. Chicago, IL

Chen J, **Grant-Beuttler M,** Glynn L. The relationship of the gastrocnemius-soleus muscle tendon unit to postural control in 5-year-old children. (Pediatric Section of the APTA)
February 8-11, 2012 Combined Sections Meeting of the American Physical Therapy Association. Chicago, IL

Mercier R, **Grant-Beuttler M,** Oropeza M, von Ibsch D. Gastrocnemius-soleus muscle extensibility: Comparison across walking stages and neurological diagnoses in children. (Pediatric Section of the APTA)
February 8-11, 2012 Combined Sections Meeting of the American Physical Therapy Association. Chicago, IL

Drndarski KN & **Grant-Beuttler M.** (2011) "Developmental Assessment Field Work" Concurrent Session #1, Preparing Pediatric PTs – What's New in Academic Preparation, at the Section on Pediatrics Annual Conference (SOPAC) on August 31, 2011.

Menz S, *Hatten K, Grant-Beuttler M.* (2011) "Effectiveness of a strength training intervention for a seven-year-old girl with gross motor delays consistent with developmental coordination disorder: A case study" (Pediatric Section of the APTA)
February 9-12, 2011 Combined Sections Meeting of the American Physical Therapy Association New Orleans, LA

Fletcher A, Bridges M, Gutmann C, Grant-Beuttler M.
Poster Presentation- "Kinematic analysis of flexion-initiated versus extension-initiated kicks in infants born full term and preterm" (Pediatric Section of the APTA)
February 17-20, 2010 Combined Sections Meeting of the American Physical Therapy Association
San Diego, California

Hui I, Waite M, Grant-Beuttler M.
Poster Presentation- "Calf Muscle Extensibility of Children 0-7 Years Old in Different Stages of Gait Development"
October 2-3, 2009 California Physical Therapy Association Annual Conference, Pasadena, California.

Oropeza M, Wiggs C, Fakhury H, Grant-Beuttler M.
Poster Presentation- "Calf muscle extensibility in normal children ages 0-7 years" (Pediatric Section of the APTA)
February 9-12, 2009 Combined Sections Meeting of the American Physical Therapy Association, Las Vegas, Nevada

Moderator and presenter for a Concentrated Education Series "Infants born Prematurely" at PT 2008: Annual Conference & Exposition of the American Physical Therapy Association, San Antonio, Texas from June 11 to June 14, 2008.

Grant-Beuttler M.
Poster Presentation- "The Relationship Between Gastrocnemius/soleus Muscle Length and Active Ankle Movement during Supine Kicking in Infants Born Preterm and Infants Born Fullterm"

July 27-29, 2007 International Conference for Society for Chaos Theory in Psychology & Life Sciences.
Orange, California

Chanin R, Sefceka A, Grant-Beuttler M.

Poster Presentation- "Normative Values Of The Pediatric Multidirectional Reach In Sitting And Standing In
Children 3-8 Years Old (Pediatric Section of the APTA)

February 1-5, 2006 Combined Sections Meeting of the American Physical Therapy Association
San Diego, California

Grant-Beuttler M, Wagner B, Miller D, Palisano R, Heriza C, Shewokis P, Roberge J, Karduna A.

Poster Presentation- "Ankle Movements During Supine Kicking In Relation To Gastrocnemius/Soleus Length In
Infants Born Preterm" (Pediatric Section of the APTA)

February 1-5, 2006 Combined Sections Meeting of the American Physical Therapy Association
San Diego, California

Wagner B, **Grant-Beuttler M**, Borja M, O'Conner C, Strong M, Lemoncelli M, Kertesz M.

Poster Presentation- "Exercise and Nutrition School Program for Adolescence Classified As At Risk For Or
Overweight" (Pediatric Section of the APTA)

February 1-5, 2006 Combined Sections Meeting of the American Physical Therapy Association
San Diego, California

Frankenbush SJ, Ross MM, Grant-Beuttler M.

Poster Presentation- "Muscle Extensibility and Toe-Walking in a Child with Asperger's Syndrome"(Pediatric
Section of APTA)

February 24-27, 2005 Combined Sections Meeting of the American Physical Therapy Association
New Orleans, Louisiana

Leininger P, **Grant-Beuttler M**, Angelucci M, Jengo A.

Poster Presentation- "Cross Training Effects Of High Intensity Unilateral Strengthening Of The Upper Extremity"
(Orthopedic Section of the APTA)

February 24-27, 2005 Combined Sections Meeting of the American Physical Therapy Association
New Orleans, Louisiana

Darlington DM, Harmanos L, Tolerico S, Grant-Beuttler M, Day A.

Platform Presentation- "The Effects of a Plantarflexion-Assist Orthotic on the Gait Pattern of a Patient with
Hemiplegia"(Neurologic Section of APTA)

February 4-8, 2004 Combined Sections Meeting of the American Physical Therapy Association Nashville, Tennessee

Long JR, Bede SL, Galanti E, Wagner BR, Grant-Beuttler M.

Poster presentation- "The Effects of Ballet Exercises and Stretches on Range of Motion, Strength, and Gait in a
Child with Neurological Deficits" (Pediatric Section of APTA)

February 4-8, 2004 Combined Sections Meeting of the American Physical Therapy Association
Nashville, Tennessee

Grant-Beuttler M & Shewokis P.

Poster presentation "Muscle Extensibility in Infants Born Pre-term and Infants Born Fullterm"(Pediatric Section of
APTA)

February 12-16, 2003 Combined Sections Meeting of the American Physical Therapy Association
Tampa, Florida

Perkowski BC, VanKleef KE, Fischer CA, Gaynor JD, Grant-Beuttler M, Wagner BW, Miller D.

Poster presentation- "Effects of an Intense Period of Exercise on an Adolescent with Cerebral Palsy"(Pediatric
Section of APTA)

February 12-16, 2003 Combined Sections Meeting of the American Physical Therapy Association
Tampa, Florida

Grant-Beuttler M & Leininger PM.

Poster presentation- "Reliability of Using a Muscle Extensibility Measure in Newborn Full Term and Preterm
Infants" (Pediatric Section of APTA)

February 20-24, 2002 Combined Sections Meeting of the American Physical Therapy Association
Boston, Massachusetts

Britton EH, Hall CT, Koch HA, Moncavage MB, Grant-Beuttler M.

Poster presentation- “Effects of Forced Use on the Upper Extremity Function in a Child with Cerebral Palsy: A Single Subject Design” (Pediatric Section of APTA)
February 20-24, 2002 Combined Sections Meeting of the American Physical Therapy Association
Boston, Massachusetts

Grant-Beuttler M, Sparling JW, Ware WW, Chescheir N,
Poster presentation- “Motor Differences in Fetuses Subsequently Born Premature” (Pediatric Section of APTA)
February 15-18, 2001 Combined Sections Meeting of the American Physical Therapy Association
San Antonio, Texas

Semon LE, Shuman BL, Stehr EJM, Ward K, Grant-Beuttler, M.
Poster presentation- “The Effects of Backpack Weight on the Static Posture of Children.” (Pediatric Section of APTA)
February 15-18, 2001 Combined Sections Meeting of the American Physical Therapy Association
San Antonio, Texas

Peer-Reviewed and Published Abstracts:

Ehrlich N, Hackett K, Grant-Beuttler M, Swan C, Hatten K. Effects of Hippotherapy on Children with Cerebral Palsy: A Systematic Review. [Abstract]. *Pediatric Physical Therapy*, 2014;26(1):119.

Sabovich S, Wong L, Grant-Beuttler M. Factors Affecting Balance in Normally Developing 5-Year-Olds. *Pediatric Physical Therapy*, 2014;26(1):149.

Atienza D, Bennett N, Glynn L, **Grant-Beuttler M.** Reference data for normally developing 5-year-olds utilizing the balance master mCTSIB. [Abstract]. *Pediatric Physical Therapy*. 2013;25(1):92.

Chen J, **Grant-Beuttler M**, Glynn L. The relationship of the gastrocnemius-soleus muscle tendon unit to postural control in 5-year-old children. [Abstract]. *Pediatric Physical Therapy*, 2012;24(1):101-102.

Freeman JA, Guy AR, Rader AD, **Grant-Beuttler M**, Cipriani D. A comparison of functional outcomes using Toe-OFF dynamic ankle-foot orthoses in a healthy adult population: A pilot study *Journal of Orthopedic and Sports Physical Therapy*[Online]. 2012;42(1):OPO-1179.

Mercier R, **Grant-Beuttler M**, Oropeza M, von Ibsch D. Gastrocnemius-soleus muscle extensibility: Comparison across walking stages and neurological diagnoses in children. [Abstract]. *Pediatric Physical Therapy*, 2012;24(1):113.

Menz S, *Hatten K, Grant-Beuttler M.* (2011) Effectiveness of a strength training intervention for a seven-year-old girl with gross motor delays consistent with developmental coordination disorder: A case study. [Abstract]. *Pediatric Physical Therapy*, 23(1),125-6.

Fletcher A, Bridges M, Gutmann C, Grant-Beuttler M. (2010) Kinematic analysis of flexion-initiated versus extension-initiated kicks in infants born full term and preterm. [Abstract]. *Pediatric Physical Therapy*, 22(1), 116.

Oropeza M, Wiggs C, Fakhury H, Grant-Beuttler M. (2009) Calf Muscle Extensibility in Normal Children Ages 0-7 years. [Abstract]. *Pediatric Physical Therapy*,21(1),125.

Grant-Beuttler M, Reddien Wagner B, Miller DP, Palisano RJ, Heriza CB, Shewokis PA, Roberge J, Karduna A. (2006) Ankle Movements during Supine Kicking in Relation to Gastrocnemius/Soleus Length in Infants Born Preterm. [Abstract]. *Pediatric Physical Therapy*, 18(1), 92.

Wagner BR, **Grant-Beuttler M**, Borja M, O'Connor C, Strong M, Lemoncelli M, Kertesz M. (2006). Exercise and Nutrition School Program for Adolescents Classified as at Risk or Overweight. [Abstract]. *Pediatric Physical Therapy*, 18(1), 109-110.

Chanin R, Sefceka AB, **Grant-Beuttler M.** (2006) Normative Values of the Pediatric Multidirectional Reach in Sitting and Standing in Children 3-8 years old. [Abstract]. *Pediatric Physical Therapy*, 18(1), 86.

Frankenbush SJ, Ross MM, **Grant-Beuttler M.** (2005) Muscle Extensibility and Toe-Walking in a Child with Asperger's Syndrome. [Abstract]. *Pediatric Physical Therapy*, 17(1), 67-68.

Darlington DM, Harmanos L, Tolerico S, **Grant-Beuttler M**, Day A. (2004) The Effects of a Plantarflexion Assist Orthosis on the Gait of an Individual with Hemiplegia [Abstract]. *Journal of Neurological Physical Therapy*, 27(4), 185.

Long JR, Bede SL, Galanti E, Wagner BR, **Grant-Beuttler M.** (2004) The Effects of Ballet Exercise and Stretches on Range of Motion, Strength, and Gait in a Child with Neurological Deficits [Abstract]. *Pediatric Physical Therapy*, 16(1), 59-60.

Grant-Beuttler M & Shewokis P. (2003). Muscle Extensibility in Infants Born Pre-term and Infants Born Full-term [Abstract]. *Pediatric Physical Therapy*, 15(1), 57-58.

Perkowski BC, VanKleef KE, Fischer CA, Gaynor JD, **Grant-Beuttler M**, Wagner BW, Miller D. (2003). Effects of an Intense Period of Exercise on an Adolescent with Cerebral Palsy [Abstract]. *Pediatric Physical Therapy*, 15(1), 60-61.

Grant-Beuttler M & LeiningNeer PM. (2001). Reliability of using a muscle extensibility measure in newborn full term and preterm infants [Abstract]. *Pediatric Physical Therapy*, 13(4), 196-197.

Britton EH, Hall CT, Koch HA, Moncavage MB, **Grant-Beuttler M.** (2001) The effects of forced use on the upper extremity function in a child with cerebral palsy: A single subject design [Abstract]. *Pediatric Physical Therapy*, 13(4), 192.

Grant-Beuttler M, Sparling JW, Ware WW, Chescheir N. (2000). Motor differences in fetuses subsequently born premature [Abstract]. *Pediatric Physical Therapy*, 12(4), 213-214.

Semon LE, Shuman BL, Stehr EJM, Ward K, **Grant-Beuttler M.** (2000). The effects of backpack weight on the static posture of children [Abstract]. *Pediatric Physical Therapy*, 12(4), 225.

Invited (Non-Peer Reviewed) Presentations:

Grant-Beuttler M, Wagner B, Borja M.

Presentation- "Exercise And Nutrition Program For Adolescents Classified As At Risk For Or With Obesity"

November 3, 2005 The Northeast Regional Childhood Wellness Team, Beyond Policy: Creating A Healthy Classroom, Wilkes-Barre, Pennsylvania

Borja M, Wagner B, **Grant-Beuttler M.**

Presentation- "Childhood Obesity- Collaborative Research Methodology and Intervention Project"

April 30, 2005 Health Science Research in Northeastern Pennsylvania 2005, Scranton, Pennsylvania

Grant-Beuttler M, Strong C, Wagner B.

Presentation- "Exercise and Nutrition Program for Adolescents Classified at Risk or with Obesity"

April 15-16, 2005 The Role of Physical Therapist in Children's Fitness Program, Pennsylvania Physical Therapy Association's Pediatric Interest Group, Harrisburg, Pennsylvania

Grant-Beuttler M.

Presentation- "Theoretical Underpinnings of Motor Development"

September 20-21, 2002 disAbility: Enhancing Expectations, Empowering Opportunities, and Promoting

Best Practices for School-Age Students K-12, University of Scranton, Scranton, Pennsylvania

Grant-Beuttler M.

Presentation- "The Relationship Between Fetal and Newborn Movement of Children Born Full Term and Children Born Preterm"

April 20-22, 1996 Where It All Begins- The Fetal and Neonatal Transition: Implications for Practice, The University of North Carolina, Chapel Hill, NC

Funded/In Review Grant Activity:

Grant-Beuttler M. Progression of Microsoft's Kinect and Computer Analysis of Motor Development. Faculty Research and Development Grant, Chapman University, May 2013 (\$600.00)

Jennings J & Johnson C. (**Grant-Beuttler M, faculty sponsor**). Comparison of perceived adequacy in and predilection for physical activity with motor ability in children. Faculty-Sponsored Student Scholarly/Creative Research Grant. Chapman University. June 2011 (\$750.00)

Churchill J, Howland M, Roberts J (**Grant-Beuttler M, faculty sponsor**). Functional comparison of Low-Risk Preterm and Full Term Children from Birth to Adolescents. Faculty-Sponsored Student Scholarly/Creative Research Grant. Chapman University. November 2009 (\$750.00)

Grant-Beuttler M. Sponsored Research Grant. Office of Sponsored Research, Chapman University. Release from teaching one class to write a NIH grant for collaborated work with the Child Development Research Group at University of California, Irvine. Chapman University. November 2008 (\$5,000.00).

Borja MA (principle investigator), **Grant-Beuttler M** (co-investigator), Wagner B (co-investigator). Nutrition and Exercise Intervention in Overweight/Obese Students: A Research, Clinical, and Service Project. U.S. Department of Agriculture. August, 2005 (\$24,000.00).

Hakim RM (principle investigator), **Grant-Beuttler M** (co-investigator), Leininger P (co-investigator), Collins T (co-investigator). A Modified Constraint-Induced Movement Therapy (mCIT) Program for the Upper Extremity of Individuals with Chronic Stroke. Edward R. Leahy Jr Center Research Award. March, 2004 (\$10,000.00).

Borja MA (co-principle investigator) & **Grant-Beuttler M** (co-principle investigator), Wagner BR (co-investigator). Intervention in Overweight/Obese Middle School Students: A Research, Clinical, and Service Project. Collaborative Education Grant with Marywood University. July, 2004 (\$9,995.00).

Grant-Beuttler M (principle investigator). The Relationship Between Muscle Extensibility and Newborn Kicking in Infants Born Preterm. Edward R. Leahy, Jr. Center Research Award. June, 2002. (\$11,175.00).

Grant-Beuttler M (principle investigator). The Relationship Between Muscle Extensibility and Newborn Kicking in Infants Born Preterm. University of Scranton Internal Faculty Research Grant. November, 2002 (\$1,500.00).

Professional Organizations:

American Physical Therapy Association Member #54753

- Member of Neurology Section, Pediatrics Section, and Women's Health Section
- Pediatric Sports and Neonatal Intensive Care Unit Special Interest Groups

California Physical Therapy Association
-1987 to 1993, 2006 to present

New York Physical Therapy Association
-1993 to 1994

North Carolina Physical Therapy Association
-1994 to 1998

Pennsylvania Physical Therapy Association
-1998 to 2006

Consultative and Advisory Positions Held:

Children's Ventilator Services Standards Development and Implementation Project
Pennsylvania Department of Public Welfare
February 2001- May 2002

Community Services:

Pediatric Physical Therapy Clinician Evidence-Based Practice Group April 2012-present
Leader of a group of clinicians dedicated to reviewing relevant research

Sunday School Volunteer, Mariners Church June 2008 to June 2010
1 and 2 year old class, every other Sunday (June 2008 to October 2008),
every Sunday (November 2008 to June 2010)

Fristers (Teen Mothers Support Group) April 2008 to November 2008
Volunteer from 6 to 8pm every week

Guest lecturer, Harbor View Elementary School November 15th and 19th, 2006
Second grade class
"The Body"

Tuesday Packet Co-coordinator, Harbor View Elementary School August 2006 to May 2010

Room Mother, Harbor View Elementary School August 2006 to June 2007
Ms. Godbey's 2nd grade

Coordinator of Obesity Exercise Program September to December, 2005

North Pocono Middle School September to November, 2004

Chester Street Elementary School Science and Art Day April 22, 2004

Costume Committee December 2002, 2003
Ballet Theatre of Scranton
Nutcracker Performance

Pocono Pirates Hockey
-Bake sale coordinator
for home tournaments 2001-2002 season
(coordinate parents volunteer hours from all teams, etc)

Dry Land Training Coordinator/Leader
-IceBox Youth Ice Hockey Camp
for both older and younger age groups June 25-29, 2001
-Bonvie Youth Ice Hockey Camp
for both older and younger age groups August 20-24, 2001

Pocono Pirates Hockey October 2000 to March 2000
-Mite team Statistician and Public Relations coordinator

Scranton Jewish Community Center -Early Childhood Services Committee	July 2000 to August 2002
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Therapy in Natural Environment (TINE) -research mentor for NE PA	July 2000 to May 2006
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Faculty Advisor for Pediatric Exercise Group	September 1998 to May 2006
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Services to The University/College/School on Committees/Councils/Commissions:

Chapman University- Schmid College Senator	September 2012 to present
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Gonfalon (Coat of Arms) Committee Chair of Committee	August 2008 to February 2009
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Assessment Committee (Wilkinson/Schmidt College Representative)	August 2007 to June 2010
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Research Advisor- Class of 2014 (Chapman Univ)	<p>“Physical Therapist Beliefs and Perceptions of a Monthly, Topic-Specific Research Discussion Group: A Structured Approach to Evidence-Based Practice”</p>
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“Development of Gait Analysis Software Utilizing the Kinect Sensor”

“Gross Motor Delay Secondary to Feeding and Gastroesophageal Reflux Disease (G.E.R.D.) in a 7 month-old Infant”

“Measurement of Calf Muscle Length in Young Children”

“Effects of Hippotherapy Research Project: A Retrospective Analysis”

“High-Dye Taping and Balance Intervention in a Pediatric Subject, A Case Report”

“Somatosensory Reweighting Exercises (SSRWE) for the Management of Visual Vertigo” (Advisor, not author)

“Physical Therapy Management of Long Thoracic Nerve Palsy: A Case Study” (Advisor, not author)

“Physical Therapy and Chiropractic Intervention in the Management of Cervical Radiculopathy” (Advisor, not author)

Class of 2013 (Chapman Univ)	“Muscle Extensibility in Typical Children, Age 0-7”
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“Physical Activity Survey and Motor Competence in Children 4-9 years of age”

“Hippotherapy in Children with Neurological Diagnoses”

“Balance in 5-Year-Old Normally Developing Children”

“Muscle Extensibility and the Development of Walking”

Class of 2012	“Muscle Extensibility in Children, Age 0-7, With and Without Diagnoses”
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(Chapman Univ)

“Balance in 5-Year-Old Normally Developing Children”

“Physical Activity Survey and Motor Competence in Children 4-9 years of age”

“Hippotherapy in Children with Neurological Diagnoses”

Class of 2011
(Chapman Univ)

“Muscle Extensibility in Children, Age 0-7, With and Without Diagnoses”

“Balance in 5 Year-Old Normally Developing Children”

“Children with Disability and Orthotics”

“Motor Functioning in Children Post Low-Risk Preterm Birth”

“The Effectiveness of Physical Therapy in Early Intervention”

Class of 2010
(Chapman Univ)

“Muscle Extensibility in Children, Age 0-7, With and Without Diagnoses”

“Balance in 5 Year-Old Normally Developing Children”

“Intervention on a Playground with an 18 month old Child”

“Physical Therapy Intervention in a Child with Down Syndrome- A Single Subject Design”

“Children with Disability and Orthotics”

“Motor Functioning in Children Post Low-Risk Preterm Birth”

*Awarded Student Faculty Grant of \$750.00

“Developmental Coordination Disorder- A Case Report”

Class of 2009
(Chapman Univ)

“Motor Control in Preterm Infant Supine Kicking”

“Calf Muscle Extensibility: A Comparison Among Normal Developing Children and Children with Cerebral Palsy and Autism Ages 0-7 years”

“Constraint-Induced Movement Therapy on a 9 month old boy”

“Toe-walking in an 18 month old child diagnosed with Chiari Malformation: A Case Report”

“Corpus Callosum Agenesis and Motor Delay: A Case Report”

Class of 2008
(Chapman Univ)

“Muscle Extensibility in Normal Children, Ages 0-7 years”

“Functional-Based Physical Therapy to Improve Ambulation on Uneven Surfaces for a Child with Cerebral Palsy”

Class of 2007
(Chapman Univ)

Application to IRB for ‘Muscle Extensibility in Normal Children, Ages 0-7 years”

University of Scranton-

Faculty Senate	August 2005 to May 2006
CPS Dean's Conference	September 2004 to May 2006
Faculty Practice Planning Collaboration Group	November 2001 to May 2006
Faculty Practice Committee Planning Group	September 2001 to May 2006
Committee on Curriculum	April 2001 to May 2006
Grade Inflation Committee	August 2000 to May 2006
Diversity Conference Committee	July 2000 to November 2000
President's Breakfast -server	May 15, 2000
Take Our Daughters To Work Day	April 27, 2000
<i>Physical Therapy Department-</i> Department Research Group Coordinator (University of Scranton)	October 2001 to May 2006
Physical Therapy Department Review Board (University of Scranton)	August 1999 to May 2006
Movement Analysis Equipment/Laboratory (University of Scranton) -leadperson	December 1999 to May 2006
Research Advisor-	
Class of 2006 (Univ. of Scranton)	<p>"Nutrition and Exercise Program for Children with or at Risk for Childhood Obesity at Dunmore Middle School"</p> <p>"Nutrition and Exercise Program for Children with or at Risk for Childhood Obesity at North Pocono Middle School"</p> <p>"Muscle Extensibility and Toe-Walking"</p>
Class of 2005 (Univ. of Scranton)	<p>"Youth Fitness and Nutritional Program for Adolescents with Obesity at North Pocono Middle School"</p> <p>"Motor Development of Grip Strategy In Infants Born Preterm"</p> <p>"Norms for Muscle Extensibility and Functional Reach in Children 3 to 8 Years of Age"</p>
Class of 2004 (Univ. of Scranton)	<p>"Muscle Extensibility and Toe-walking in a Child with Asperger's Disorder"</p> <p>"The Effects of Constraint-Induced Movement Therapy on Children with Neurological Insults"</p> <p>"Parents' and Therapists' Experience with School-Based Physical Therapy"</p> <p>"The Effects of Ballet Exercises and Stretches on Range of Motion, Strength, and Gait in a Child with Neurological Deficits" (co-advisor with Barbara Wagner)</p>
Class of 2003 (Univ. of Scranton)	<p>"The Effects of a Plantarflexion-Assist Orthotic on the Gait Pattern of a Patient with Hemiplegia"</p>

“The Use of Constraint-Induced Intervention with Children”

Class of 2002 “The Effect of a 5-day Intense Training Camp on Skill Acquisition and
(Univ. of Scranton) Performance in Experienced Youth Ice Hockey Players”

“What Kicks in When: A Descriptive Kinematic Analysis of Normal Infant
Kicking and Coordination”

“Effects of an Intense Period Of Exercise on an Adolescent with Cerebral Palsy”

“Qualitative Study on Motivation in Youth Ice Hockey Players”

“Gait Variations and Low Back Pain Associated with Pregnancy in the Third
Trimester” (co-advisor with Prof. Barbara Wagner)

Class of 2001 “The Effects of Forced Use on Upper Extremity Motor Function in a Child with
(Univ. of Scranton) Cerebral Palsy: A Single-Case Design”

Class of 2000 “The Effects of Varying Percentages of Backpack Weight on the Static Posture
(Univ. of Scranton) of Children”

“Influence of Parental Example on Children’s Physical Fitness Habits”

Coda Advisor (assisted research group with use of Coda system only)-

Class of 2005 “Modified Constraint-Induced Movement Therapy”
(Univ. of Scranton)

Class of 2004 “The Effects of a Strengthening Exercise Program for a Child with Generalized
(Univ. of Scranton) Muscle Weakness

Class of 2002 “Forced-Use of the Upper Extremity in a Person with Chronic Stroke: An
(Univ. of Scranton) Assessment of Treatment Time and Quality of Movement”

“The Effect of Hamstring Muscle Stretching on Standing Posture and on Lumbar
and Hip Motions During Forward Bending” (assisting Prof. Peter Leininger
with system)

Honor Projects-

1998 (Reader)	A Comprehensive Study of Gait
2001 (Reader)	Hippotherapy with Adults
2003 (Advisor)	The Application of IDEA on Physical Therapy in the School System
2004 (Reader)	Hippotherapy and Physical Therapy

Additional teaching not on teaching load-

PT 640 Neurological Practice Management	fall 2007,2008
-teach PNF module	

PT 510L Functional Human Anatomy Lab Assistant	fall 2006, 2007
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PT 555 Correlative Rehabilitation	taught fall of 1998, 1999, 2000, 2001
-two week module on orthotics (6 hours of lecture/ 4 hours of lab)	

PT 552 Women's Health Module taught fall 1999, 2000, 2001, 2003
 -two hour lecture on physical therapy intervention during the childbearing year

PT 493 Introduction to Research taught spring 2000, 2001, 2002, 2003, 2004, 2005
 -two classes on qualitative research

PT 350 Introduction to Therapeutic Exercise taught fall 2000
 -one hour lecture on exercise with the pregnant client

Chapman University-

Faculty Senate August 2012 to present

Gonfalon (Coat of Arms) Committee August 2008 to February 2009
 Chair of Committee

Assessment Committee August 2007 to June 2010
 (Wilkinson/Schmidt College Representative)

University of Scranton-
 Faculty Senate August 2005 to May 2006

Motion Analysis Lab Equipment Lead Person January 2000 to May 2006

Research Coordinator August 2003 to May 2006

CPS Dean's Conference September 2004 to May 2006

Faculty Practice Planning Collaboration Group November 2001 to May 2006

Faculty Practice Committee Planning Group September 2001 to May 2006

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Grade Inflation Committee August 2000 to May 2006

Diversity Conference Committee July 2000 to November 2000

President's Breakfast May 15, 2000
 -server

Take Our Daughters To Work Day April 27, 2000

Professional Service-

Pediatric Section Program Committee Member
 Combined Sections Meeting of the American Physical Therapy Association 2009, 2010, 2011, 2012

Pediatric Section Research Committee Member
 American Physical Therapy Association 2011-2017

Lecturer at College Misericordia
 Pediatric lecture on Prematurity October 16, 2001; October 22, 2002; October 19, 2003; October 19, 2004; November 3, 2005
 Pediatric lecture on Cerebral Palsy October 23, 2001; October 29, 2002; October 23, 2003

Reviewer of manuscripts for:	
Early Human Development	February 2013
Pediatric Physical Therapy	June 2012, July 2012, November 2012, January 2013, February 2013
Physical & Occupational Therapy in Pediatrics	June 2009, March 2011, July 2011, October 2012, December 2012
Physiotherapy Theory and Practice	February 2001, March 2005, June 2008
Osteoporosis Hotline – CSM , San Antonio, Texas	February 17, 2001
-phone representative	

Honors and Awards:

APTA award: *Dissertation award*- This award honors a member of the Pediatric Section of the American Physical Therapy Association who has completed a dissertation in the past year. Awarded at Combined Sections Meeting of the American Physical Therapy Association, Pediatric Section Meeting, February 2006

Graduation awards: *Scholarship award*- This award honors a PhD student who has exceeded expectations in academics and in the completion of work that makes a contribution to scholarship in the field. Drexel University, College of Nursing and Health Professions, May 2005

Who's Who nomination- Drexel University, College of Nursing and Health Professions, May 2005

Continuing Education:

February 22, 2015	Pediatric Yoga For Children & Adolescents with Physical, Behavioral, and Developmental Challenges. Fullerton, CA
August 24-26, 2014	Universal Exercise Unit Training Pontiac, Michigan
February 3-6, 2014	Combined Sections Meeting of the American Physical Therapy Association. Las Vegas, NV
January 21-24, 2013	Combined Sections Meeting of the American Physical Therapy Association San Diego, California
February 9-11, 2012	Combined Sections Meeting of the American Physical Therapy Association Chicago, Illinois
February 8, 2012	The Child's Developing Brain: Emerging Neuroscience and Its Therapeutic Implications Presented by: Mary Ann Sharkey, PT, PhD, MS
February 9-12, 2011	Combined Sections Meeting of the American Physical Therapy Association New Orleans, Louisiana
January 19, 2010	National Science Foundation Day, University of San Diego, CA
November 5, 2010	Teaching Collaboration II, Chapman University
September 20, 2010	Teaching Collaboration I, Chapman University

February 17-20, 2010	Combined Sections Meeting of the American Physical Therapy Association San Diego, California
February 9-12, 2009	Combined Sections Meeting of the American Physical Therapy Association Las Vegas, Nevada
June 10-14, 2008	American Physical Therapy Association Annual Conference San Antonio, TX
February 13-18, 2007	American Physical Therapy Association Combined Sections Meeting Boston, MA
February 1-5, 2006	American Physical Therapy Association Combined Sections Meeting San Diego, CA
May 27, 2004	Developing a Scholarly Agenda Presented by: Elizabeth Domholdt, PT, EdD Professor and Dean of the Krannert School of Physical Therapy
May 12, 2004	Safe Transport for Children with Special Needs (On-line training course) Presented by: Connecticut Children's Medical Center
April 23, 2004	Evidence Based Physical Therapy Practice: What PT's Need to Know. Presented by: Expert Clinical Benchmarks
February 27, 2004	Valuing Teaching as Scholarly Work Taught by: Maryellen Weimer, PhD Associate Professor of Teaching and Learning Berks Lehigh Valley College, Penn State
February 4-8, 2004	American Physical Therapy Association Combined Sections Meeting Nashville, Tennessee
May 20, 2003	Scientific Writing for Peer-reviewed Publication, University of Scranton Taught by: Jules M. Rothstein, PhD, PT, FAPTA Editor, Physical Therapy Professor, Physical Therapy, University of Illinois at Chicago
February 12-16, 2003	American Physical Therapy Association Combined Sections Meeting Tampa, Florida
November 21, 2002	Making Your Syllabus Work for You Taught by: Rev. Albert M. Liberatore, STD
September 20-21, 2002	First Annual Conference on disAbilities University of Scranton
May 21-22, 2002	Introduction to Survey Research Taught by: Alice J. Hausman, PhD, MPH
May 10, 2002	Community-Based Participatory Research: A Scholarship Channel for Service Learning Presented by: The Center for Healthy Communities' Pennsylvania Regional Faculty

May 6 th and 8 th , 2002	The Use of Qualitative Research Methods Taught by: Katherine F. Shepard, PhD, PT, FAPTA
February 20-24, 2002	American Physical Therapy Association Combined Sections Meeting Boston, Massachusetts
November 15, 2001	Using Multiple Choice Question Format Taught by: Dr. Joseph Fusaro
November 8, 2001	Understanding Student Evaluations Office of Instructional Technology
May 21- 24, 2001	Teaching Well With Technology Taught by: ATC department at the University of Scranton
February 15-18, 2001	American Physical Therapy Association Combined Sections Meeting, San Antonio, Texas

Current Teaching Responsibilities in the Entry-level Doctor of Physical Therapy Program:

Fall Semester-

PT 643- Motor Control/Motor Learning (2 credits)
PT 643L- Motor Control/Motor Learning Lab (1 credit)
PT 651- Scientific Inquiry II (3 credits)

Spring Semester-

PT 650b- Scientific Inquiry Ib (.5 credit)
PT 799- Scientific Inquiry IIIb (.5 credit)

Summer Semester-

PT 647- Pediatric Practice Management (2 credits)
PT 647L- Pediatric Practice Management Lab (1 credit)
PT 799- Scientific Inquiry IIIa (.5 credit)

Total teaching load- 13 credits