

CURRICULUM VITAE

Mary Frances Baxter
2009

Education

PhD	2002	Kinesiology and Health; University of Houston;
MA	1990	Rehabilitation Technology in Occupational Therapy; Texas Woman's University;
BS	1981	Occupational Therapy; Colorado State University

Dissertation

Effect of Dynamic Foot Pressure on Neuromuscular Activation, 2001, directed by Charles S. Layne, PhD.

Professional Certification/Licensure:

Certification in Occupational Therapy, 1981-2002
Licensed by the State of Texas # 102012, since 1985

Employment

Aug 2002- Present	Associate Professor, Texas Woman's University, Houston, TX
Jan. 2006 - Aug. 2007	Research Coordinator, University of Texas MD Anderson Cancer Center (UTMDACC)
Aug 1995- Aug 2002	Assistant Professor, Texas Woman's University, Houston, TX
Aug 1996- present	Director of the Center for Assistive Technology. Texas Woman's University, Houston, TX
Jan 1991- July 1995	Instructor, Texas Woman's University, Houston, TX
Feb 1992 - Jan. 1998	Clinician, Pediatric Therapy Center, Houston, TX
Aug 1987- Jan 1991	Lead therapist, Humble Independent School District, Humble, TX
Aug 1985 - June 1987	Staff therapist, Harris County Department of Education, Houston, TX.
Feb 1982- Mar 1985	Staff therapist, City of Hope National Medical Center, Duarte, CA
Oct 1981- Jan 1982	Staff therapist, Orangegrove Rehabilitation Hospital, Garden Grove, CA
May 1981- June 1981	PRN therapist, St. Joseph's Hospital, Albuquerque, NM

TEACHING

Courses Taught at TWU

Courses Taught -- MA curriculum

OT 5203	Research in Occupational Therapy
OT 5413	Pediatric Neuroscience
OT 5423	Grantsmanship
OT 5503	Electronic Technology used by OT's
OT 5523	Introduction to Strength of Materials Used in Occupational Therapy
OT 5533	Mobility Aid Technology
OT 5723	Motor Behavior

- OT 5733 Pediatric Outcome Measures
- OT 5903 Assistive and Adaptive Technology
- OT 5903 Integrating Technology into Daily Lives

Current MOT Curriculum:

- OT 4923 Neuroscience
- OT 5132 Persons, Tools, and Occupations
- OT 5141 Scholarly Inquiry
- OT 5321 Occupational Adaptation; Infancy and Childhood Lab
- OT 5324 Occupational Adaptation; Infancy and Childhood
- OT 5361 Level 1 Fieldwork Seminar
- OT 5551 Advanced Process
- OT 5732 Specific Tools for Occupational Therapy
- OT 5832 Contextual Movement
- OT 5853 Special Issues Course – Assistive Technology
- OT 5852 Special Issues Course – School Based Practice
- OT 5852 Special Issues Course – Neuroscience for Rehabilitation
- OT 5852 Special Issues Course – Clinical Neuroscience

Previous MOT Curriculum:

- OT 5012 Therapeutic Application & Analysis of Activity and Crafts
- OT 5032 Therapeutic Application & Analysis of Weaving and Fiber Arts
- OT 5243 Occupational Therapy in Pediatrics
- OT 5241 Occupational Therapy in Pediatrics Lab
- OT 5261 Applied Physical Function and Treatment Techniques
- OT 5271 Principles of Rehabilitation Modalities
- OT 5272 Application of OT Rehabilitation Modalities Lab
- OT 5293 Integration of Developmental Processes & Life Tasks
- OT 5462 General Medical Surgical and Orthopedic Conditions
- OT 5451 Clinical Conditions in Pediatrics
- OT 5903 Special Topics: Assistive Technology for Occupational Therapists
- OT 5903 Special Topics: Clinical Applications of Assistive Technology

Undergraduate Courses

- OT 4241 Physical Function Evaluation Treatment Technique Lab
- OT 4242 Physical Function Evaluation Treatment Technique
- OT 4281 Pediatric OT Lab
- OT 4282 Pediatric OT
- OT 4462 Medical Surgical and Orthopedic Conditions
- OT 4903 Clinical Neuroscience

Doctoral Dissertations

Fingerhut, Patricia, The Impact of Caring for Children with Special Needs on the Ability of Parents/Caregivers to Engage in Occupations to Support Participation; 2005, committee member

Master's Theses

Zimmerman, Angelynn; Routine-based Intervention; Parent Perspective on Useful and Understanding. 2005 chair

- Laredo, Rafferty; Independent Clean Intermittent self-catheterization for Individuals with Tetraplegia. 2005 chair
- Thompson, Kelly; The Effects of a Constraint-induced Movement Summer Camp; a Retrospective Review. 2005 chair
- Traynor, Amy; Efficacy of School-based Occupational Therapy; Parent's Perspective. 2004 chair
- Schlect, Nicole; An Evaluation of Therapeutic Foam Mattresses in Pressure Reduction. 2000, chair
- Banks, Caroline, A Preliminary Study of the Assistive Technology Guide for Amyotrophic Lateral Sclerosis. 1999, chair
- Steadman, Anna Kay, Correlative Analysis of Carpal Canal Pressures and Peak External Forces in Paraplegic Patients. 1997, chair
- Bell, Audrey, Caregiver Satisfaction with Home Care Feeding Techniques Implemented by Occupational Therapy. 1995, chair

Master's Professional Papers

- LeHoux, Lise Pain Experience of Quilters and Their Adaptations in Quiltmaking, Co-chair. 2007, chair
- Fuentez, Maria, The Study of Time Organization of Quilters as it Relates to Different Quilting Techniques 2006, chair
- Chachere, Crystal, The Study of Quilters' Knowledge of Body Mechanics and Pain They May Experience, 2006, chair
- Walsh, Ann Marie. The Effects of Practice and Altered Sensory Conditions on Time and Skill in Motor Learning, 2005, chair
- Broussard, YaRonda. Practice Schedules and its Effect on Transfer of Motor Learning in Altered Sensory Conditions, 2005, chair
- Lauzon, Ruth. Retrospective Chart Review of Postural Control in Children with Brachial Plexus Injury 2005, chair
- Christopher, Caroline. Retrospective Chart Review of Postural Control in Children with Brachial Plexus Injury, 2005, chair
- Gartman, Andrea. Effects of Constraint Induced Movement Therapy on Dexterity; A Retrospective Case Review, 2004, chair
- Dibble, Bethany. Effects of Constraint Induced Movement Therapy on Strength; A Retrospective Case Review, 2004, chair
- Varacados, Earene. Use and abandonment of assistive technology devices the parent's perspective, 2003, chair
- George, Bindu . Use and abandonment of assistive technology devices the parent's perspective, 2002, chair
- Lange, Joann. Mobility device use among school aged children; an analysis of archived data. 2002, chair
- Seiler, Autumn. Issues of the use, abandonment and variability between home and school use of assistive technology devices, 2001, chair

- Middleton, Kimberly. Utilization of assistive technology devices among school-age children with mental retardation, 2001, chair
- Silvey, Lisa. Use and abandonment of assistive technology devices: a special look at children with learning disabilities, 2001, chair
- Fyfe, Heather. Clinical implications of a "smart" wheelchair with obstacle avoidance as a training vehicle or mobility aid, 1999, chair
- Bayley, Judy. Keyboard design and carpal tunnel syndrome: A literature review, 1999, chair
- Andrade, Lori . Occupationally embedding range of motion for the shoulder in the leisure activity of stunt kite flying, 1999, chair
- Almillategui, Angelica. Introduction to environmental controls: An instructional unit, 1998, chair
- DeLeon, Julio. An assessment of assistive technology needs of an underserved minority population, 1998, chair
- Woods-Pettiti, Marie. The use of phototherapy with pediatric burn survivors, 1998
- Daybell, Paul. Exploration of the use and meaning of assistive technology devices with children, 1998
- McPhail, Karen . Kinematic analysis of lateral trunk movements during hippotherapy and Swiss ball exercises, 1997, chair
- Svensden, Krista. Development of a videotape on Brunnstrom's Movement Therapy treatment techniques with student review, 1997, chair
- Banks, Caroline A preliminary study of the suspended tile wheelchair seat, 1996, chair
- Gohmert, Heather. Equine modalities: conformation as it affects quality of movement and soundness, 1996, chair
- Smith-Vest, Jennifer. Specialty Fieldwork in Neonatal Intensive Care Unit, 1996, chair
- Fischer, Karen. Collaborative vs. discipline specific IEPs: does it make a difference in outcomes of self-help skills, 1996, chair
- Floyd, Kimberly. A merger between motor learning and sensory integration: a review, 1996, chair
- Gaber, Mary. A survey of primary caregivers on occupational therapy intervention in the neonatal intensive care unit, 1996, chair
- Saavedra, Pam. Kinematic analysis of trunk mobility on a therapy ball, 1996, chair
- Ford, Shannon Comparison of two clinical settings: Klinik Valens Rehabilitationzentrum and Clear Lake Rehabilitation Hospital, 1996, chair
- Rogers, Steve. Application of computers in the evaluation and treatment of gross visual deficits caused by central nervous system injury, 1996, chair
- Muenks, Sue. Survey of occupational therapists about the application of motor learning in treatment, 1996, chair
- Evatt, Kimberly. Development of a reference resource for pediatric software based on diagnostic categories and therapeutic uses. 1995, chair

- McWilliams, Lori. Facilitating activity in latch key children. 1995, chair
- Earnest, Teri. Ethnographic study of a physically disabled college student, 1995, chair
- Cox, Jennifer. A survey on positioning and sensory regulation of infants on extracorporeal membrane oxygenation, 1994, chair
- Slade, Melissa. Specialty fieldwork in pediatrics and sensory integration, 1994, chair
- Foresman, Molly. A qualitative analysis: how a mother and son pair experience and interpret autism and implications for the health care, 1994, chair
- Guest, Anna Kathryn . Child care availability for children with disabilities, 1993, chair
- Trent, Deanna . Development of a reference resource for software based on diagnostic categories and therapeutic uses. 1993, chair
- Sheahan, Jean. A study of the time and quality of play experiences of preschool children with multihandicaps. 1993, chair
- Moore, Pamela. Assessing factors for children with cerebral palsy that contribute to the level of effort expended during reach to activate an expanded computer keyboard. 1993, chair
- Blanchard, Mark. A study guide in biomechanics and motion for occupational therapists. 1992, chair
- Holst, Michael. A proposal for the role of occupational therapy in the use of computers for written or printed communication by the elderly: a review. 1992, chair

SCHOLARSHIP

Referred Publications or Other Creative Acheivements

1. Books

2. Chapters

- Baxter M.F. (2008). Assistive Technology for Persons with Parkinson's Disease. in M. Trail, E. Protas, E. Lai.Trail, (ed.), Neurorehabilitation for Parkinson's Disease.. Slack, Inc,
- Baxter M.F. (2007). Ergonomics for Play and Leisure. in Jacobs, K. (ed.), Ergonomics for Therapists (3rd ed.). Butterworth-Heinemann, Inc. pages 313-328.
- Baxter M.F. (2000). Augmentative Communication. in Grabois, Garrison, & Hart (ed.), Rehabilitation Medicine: The Complete Approach.
- Baxter M.F. & Baxter D.A. (1998) Cellular Mechanisms of Learning and Memory. in Cohen, H (ed.) , Neuroscience for Rehabilitation Professionals. Lippincott, pp. 321-348.

3. Articles

- Baxter MF (in preparation) Quilting Habits and Lifestyle in American Quilters, to be submitted to Work.
- Baxter MF (in preparation) Effects of Cancer Sequela on Function and Participation. To be submitted to AOTA's Physical Disabilities SIS.
- Morris GS, Gallagher, G, Baxter, MF, Scheetz, J, (2009) Pulmonary rehabilitation improves functional status in oncology patients. Archives of Physical Medicine and Rehabilitation.
- Layne, CS, Mulavara, AP, Bloomberg, JJ, Forth, KE, Baxter, MF, Houser, JJ, Kozlovskaya, IB. (2002) Using dynamic foot stimulation during space flight as a countermeasure to muscle degradation. Neuroscience Letters
- Baxter MF (2005) Augmentative and Alternative Communication for Non-Speaking Patients. Advance for Nursing.
- Baxter, MF (May 2004), The Texas OT Quilts. OT Practice
- Simpson, R., Poirot, D., Baxter, F., (2002) The Hephaestus smart wheelchair system. IEEE Transactions on Neural Systems and Rehabilitation Engineering.
- Baxter, MF (2000) Mind Game. Advance for Directors of Rehabilitation.

4. Book Reviews

- Jan 2003 Book Review for Elsevier, Mosby Publications: Occupational Therapy for Children 4th edition
- Dec 1999 Manuscript review for Slack Inc.: Muscular Analysis of Everyday Activities
- Aug 1996 Book Review for American Occupational Therapy Association: Assistive Technologies: Principles and Practice, Cook and Hussey,

5. Other Completed Works

- Thompson, K, Dibble, B, Gartman, A, and Baxter MF (2005) The Effects of Constraint Induced Therapy on Sensation, Fine Motor Speed, Dexterity, and Hand Strength. Annual Meeting of the Houston Engineering, Medicine and Biology Conference (HSEMB) Houston TX
- Baxter MF & Layne CS. (2002) Effects of dynamic foot pressure on neuromuscular activation. Proceedings of the Society for Neuroscience, Orlando, FL.
- Baxter MF, Houser JJ, Forth KE, & Layne CS. (2001) Timing of somatosensory stimulation to the feet modifies human neuromuscular activation. Proceedings of the Society for Neuroscience,, San Diego, CA,
- Simpson, R., Poirot, D. & Baxter, M (1999) The Hephaestus smart wheelchair system. IEEE Transactions on Rehabilitation Engineering.

- Simpson, R., Poirot, D. & Baxter, M (1999) Evaluation of the Hephaestus smart wheelchair system. Proceedings of the 6th International Conference on Rehabilitation Robotics, Stanford, CA.
- Simpson, R., Poirot, D. & Baxter, M (1999) The Hephaestus smart wheelchair system. Proceedings of the 22nd Annual Conference on Rehabilitation Engineering (RESNA), Long Beach, CA
- Baxter, M.F., Martinez, J., Krouskop, T.A., & Garber, S. (1987) Effects of seat surface stiffness on trunk muscle activity. Proc Ann Conf Rehab Tech (RESNA), 10:513-515.
- Baxter, MF (2004) The Autonomic Nervous System and Its Effect on Therapy. On-line continuing education course; CEU Resources, Inc.
6. Completed exhibitions
 7. Completed compositions
 8. Other

Non-refereed Publications and Other Creative Achievements

1. Books
 - Baxter, M.F. (2006) Exercises and Stretches for Quilters and Crafters, self published
2. Chapters
3. Articles
 - Baxter MF (2005) Healthy Tips for the Long-Arm Quilter. Quilting Professional.
 - Baxter, MF (2004) Shop Comfort. Quilting Professional.
 - Baxter, MF (2004) Ergonomics for the industry. Quilting Professional.
 - Baxter, MF. (2003) Adventures in On-line Education. Revista.
4. Book Reviews
5. Other Completed Works
6. Completed exhibitions
7. Completed compositions
8. Other

Presentations at Professional Meetings

- Nov. 2007 MF Baxter, J Lao, Evidence Based Practice; Examples from Pulmonary Rehabilitation. Mountain Central Conference of the Texas Occupational Therapy Association, The Woodlands TX
- Nov. 2007 MF Baxter, Update on AOTA Mountain Central Conference of the Texas Occupational Therapy Association, The Woodlands TX
- Nov. 2007 MF Baxter, H Filip, Therapeutic Use of Creative Activities. Mountain Central Conference of the Texas Occupational Therapy Association, The Woodlands TX
- Feb 2007 Role of OT with the Cachexia Patient. Presented at Palliative Care and Physical Medicine Conference, Houston TX
- July 2006 MF Baxter, C Christopher, R Lauzon, M Wiggin. Postural Control Problems in Children with Brachial Plexus Injury, A Retrospective Review. World Federation of Occupational Therapists, Sydney, Australia.
- Nov. 2005 MF Baxter, Centennial Vision for AOTA, Mountain Central Conference of the Texas Occupational Therapy Association, San Antonio, TX
- Nov 2005 MF Baxter, JA Robinson, KL Reed, Clinical Research, Overcoming Obstacles, Mountain Central Conference of the Texas Occupational Therapy Association, San Antonio, TX
- Oct 2004 Baxter MF Lifestyle and Adaptation of American Quilters, Mountain Central Conference of the Texas Occupational Therapy Association, Sugarland, TX
- Oct. 2004 Baxter MF Augmentative and Alternative Communication, Continuing Education workshop by Advance for Nursing.
- Feb. 2004 Baxter MF Postural Control Across the Lifespan. Invited Speaker, Vanderkooi Annual Celebration of Scholarship, Dallas TX
- Nov. 2003 Baxter MF Ergonomics for the Industry, International Quilting Association, Houston, TX.
- Sept. 2003 Baxter MF Development of Postural Control. Mountain Central Conference of the Texas Occupational Therapy Association, Richardson, TX
- June 2003 Baxter MF Development of Postural Control. Annual Conference of the American Occupational Therapy Association, Washington DC
- Nov. 2002 Baxter MF Layne CS. Effects of dynamic foot pressure on neuromuscular activation. Annual Meeting of the Society for Neuroscience, Orlando, FL.
- Nov. 2001 Baxter MF, Houser JJ, Forth KE, Layne CS. Timing of somatosensory stimulation to the feet modifies human neuromuscular activation. Annual Meeting of the Society for Neuroscience, San Diego, CA,
- Sept. 2001 Baxter, MF, Robinson, J. Stories from the field, examples of clinical reasoning. Mountain Central Conference, Ft Worth, TX.
- July 2001 Layne CS, Forth KE, Baxter MF, Houser JJ. Controlled somatosensory input modifies neuromuscular activation. Annual Meeting of the North American Society for Psychology of Sport and Physical Activity, St Louis, MO.
- April 2001 Baxter, MF, & Baxter DA, Neuroscience Foundations for Rehabilitation. Annual Conference of the American Occupational Therapy Association. Philadelphia, PA;
- Oct 2000 Baxter, MF, & Baxter DA, Neuroscience Foundations for Rehabilitation. Mountain Central Conference of the Texas Occupational Therapy Association; Corpus Christi, TX

- Feb 2000 Houston Conference on Biomedical Engineering Research: Use of Dynamic Foot Pressure to Modify Neuromuscular Activation during Bipedal Unloading
- Oct. 1999 Mountain Central Conference of the Texas Occupational Therapy Association: Demonstration of Obstacle Avoidance for Wheelchairs.
- April 1999 American Occupational Therapy Association: Evaluation of the Hephaestus smart wheelchair system
- Feb. 1998 Houston Conference on Biomedical Engineering Research: Modifications in Neuromuscular Activation Patterns Resulting From Induced Ischemia
- April 1998 American Occupational Therapy Association: Integrating a Center for Assistive Technology into OT Education
- April 1996 American Occupational Therapy Association: Motor Control, Motor Learning and Sensory Integration
- Feb. 1996 Houston Conference on Biomedical Engineering Research: Use of Assistive Technology with Persons with Severe Disabilities

Honors and Awards

- 2009 Certificate of Appreciation from American Occupational Therapy Association
- 2008 Distinction in E-Learning, Texas Woman's University
- 2007 Certificate of Appreciation from American Occupational Therapy Association
- 2006 Nominated for Distinction in E-Learning, TWU
- 2006 Letter of Appreciation from TOTA
- 2006 Certificate of Appreciation from RESNA
- 2004 Texas Occupational Therapy Association; Academic Educator of the Year
- 2001 Doctoral Student Research Award, University of Houston
- 1999 Nominated for Outstanding Graduate Student University of Houston
- 1998 Nominated for Who's Who among American Teachers
- 1997 Who's Who in Health Care and Medicine

Fellowships

Grants and Contracts

- 2009 American Quilt Study Group, \$2,500, not funded
- 2000 Contract Services for Assistive Technology for Houston Independent School District, \$41,000
- 1999 Contract Services for Assistive Technology for Houston Independent School District, \$41,000
- 1999 Adaptation Experts for Computer Access, \$8,000
- 1998 Evaluation of the "Smart" Wheelchair" \$9,000
- 1998 Contract Services for Assistive Technology for Houston Independent School District, \$23,000

Scholarly Works in Progress

Other Research and Creative Achievements

PROFESSIONAL SERVICE

Service Activities for the Component, College or University

Jan 2009-present	Steering committee member for Mary Joyce Newsom award and celebration
Sept. 2008-present	Search Committee for Director School of Occupational Therapy
Oct. 2008 - present	Search Committee, School of Nursing, Texas Woman's University, Houston
Mar. 23, 2009	Presentation on professionalism and AOTA for T Smith's Class OT 5753 Design and Evaluation of Management Systems
Nov. 2, 2007	Guest Instructor for K Reed's class OT 6233 - Origin & Evolution of the Concepts of Occupational Adaptation
Mar. 7, 2007	Presentation on Assistive Technology in Pediatrics for K. Reed's class OT 5324 OA- Infancy and Childhood
Mar. 5, 2007	Presentation on professionalism and AOTA for T Smith's Class OT 5753 Design and Evaluation of Management Systems
Feb. 14, 2007	Presentation on Neuroscience foundations for Pediatric Intervention for K. Reed's class OT 5324 OA: Infancy and Childhood
2002-2006	Faculty Senate, Texas Woman's University
2005	Search Committee, School of Occupational Therapy, Texas Woman's University, Houston
2004-2005	Search Committee, School of Nursing, Texas Woman's University, Houston
1995-2000	Advisor for SOTA, Houston
1995-2002	Commencement Committee- Houston Center-

Service Activities to the Profession

Apr. 2008-present	Hospitality chair of the Local Conference Committee for American Occupational Therapy Association.
Nov. 2007-present	Committee member Texas Occupational Therapy Foundation (TOTF)
June 29-30 2007	Workshop presentation on Therapeutic use of creative activities for Texas Occupational Therapy Association;
2004-present	Representative for Texas to the American Occupational Therapy Association Representative Assembly (RA)
2004	Co-Chair of Program Committee – TOTA conference
2002–2004	Chairperson: Professional Interests Group (OT-PSG) Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)
2001-2003	Chair of Awards Committee - Texas Occupational Therapy Association
2000-2002	Chair-elect for occupational therapy professional specialist group Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)
2000- 2004	Vice-Chair for Gulf Coast East District -Texas Occupational Therapy Association
1996-2000	Secretary for Gulf Coast East District -Texas Occupational Therapy Association

Service to the Community

Mar. 2009	Presentation to occupational therapy students at UTMB-Galveston on Professional Commitment.
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2007-present
Jan 23, 2007 Member, Ovarian Cancer Research and Awareness Committee
Presentation on Assistive Technology to the Parkinson's
Association

2004 External Review for Promotion and Tenure Committee, School of
Rehabilitation Services, Vancouver, B.C.

2001 – 2007 Annually Instruction in Assistive Technology for Kingwood College
COTA students

Membership in Professional Organizations

1981-present American Occupational Therapy Association - member

1993-present Texas Occupational Therapy Association - member

1999-2005 Rehabilitation Engineering and Assistive Technology Society of
North America (RESNA) - member

1999-present Phi Theta Epsilon – Honorary Member

2000-2003 Society for Neuroscience – member