Education

University of Colorado Boulder, CO	1993-1998	BA (Molecular Biology)
University of North Carolina Chapel Hill, NC	2003-2005	MPT
University of Colorado Denver Aurora, CO	2008-2012	PhD (Clinical Science)
Regis University Denver, CO	2013	tDPT

Undergraduate Honors Thesis: Evolution of the Scrambling Germline Gene Encoding DNA Polymerase Alpha in Hypotrichous Ciliates. Thesis Advisor: David M. Prescott, PhD

Graduate Thesis: Improving Strength and Function After Total Knee Arthroplasty. Thesis Advisor: Jennifer E. Stevens-Lapsley PT, MPT, PhD

*Scholarly Societies***:** Phi Beta Kappa

Certification/Licensure: Colorado Physical Therapy License # 9977 exp. 10/31/2014

Specialty Certifications/Fellowships and dates:

1. APTA Certified Clinical Instructor 2007
2. Certified Orthopedic Manual Therapist 2007
3. Duke University Manual Therapy Fellowship 2008

Academic Employment

Institution	**Position/Title**	**Date**
Regis University RHCHP-School of Physical Therapy	Assistant Professor Director of Fellowship In Manual Therapy Program	2012-Present 2014-Present
University of Colorado Denver Physical Therapy Program, C244	Lecturer Lab Assistant	2009-2012

3333 Regis Blvd, G-4, Denver, CO 80221-1099 Phone: 303-458-4985 Email: mbade@regis.edu

Duke University Department of Physical Therapy	Lecturer Lab Assistant	2006-2008
Maitland-Australian Physiotherapy Seminars (MAPS)	Assistant Instructor	2007-2008

Professional Employment

Institution	**Position/Title**	**Date**
Regis University RegisCares Faculty Practice	Physical Therapist	2012-Present
Duke University Medical Center	Senior Physical Therapist	2005-2008
Sharp Memorial Hospital Sports Medicine Center	Physical Therapy Aide	2002
Veteran's Medical Research Foundation P.I. Gordon Lutz, PhD	Orthopedic Researcher	2001
University of Colorado at Boulder P.I. David Prescott, PhD	Research Assistant	1996-1998
University of Colorado at Boulder P.I. Scott Berger, PhD	Research Assistant	1993-1994

Publications

Refereed Journals

1. Lutz GJ, Bremner SN, Bade MJ. Identification of myosin light chains in *Rana Pipiens* skeletal muscle and their expression patterns along single fibers. J Exp Biol. 2001; 204:4237-48
2. Rapport MJ, Rodriguez J, Bade MJ. Use of a community volunteer program to develop value for patient centered care in physical therapy education. *J. Phys. Ther. Educ.* 2010; 24(2):53-59.
3. Bade MJ, Kohrt WM, Stevens-Lapsley JE. Outcomes before and after total knee arthroplasty compared to healthy adults. *J Orthop Sports Phys Ther.* 2010; 40(9):559-567.
4. Christiansen CL, Bade MJ, Judd D, Stevens-Lapsley JE. Weight-bearing asymmetry during sit to stand transitions related to impairment and functional mobility after total knee arthroplasty. *Arch Phys Med Rehabil*. 2011; 92(10):1624-9.
5. Bade MJ, Stevens-Lapsley JE. Early high-intensity rehabilitation following total knee arthroplasty improves outcomes. *J Orthop Sports Phys Ther*. 2011; 41(12): 932-941.

6. Bade MJ, Stevens-Lapsley JE. Restoration of physical function in patients following total knee arthroplasty - an update on rehabilitation practices. Curr Opin Rheumatol. 2012; 24(2):208-214.
7. Bade MJ, Wolfe P, Zeni JA, Stevens-Lapsley JE, Snyder-Mackler L. Predicting poor physical performance after total knee arthroplasty. J Orthop Res. 2012; 30(11):1805-1810.
8. Christiansen CL, Bade MJ, Weitzenkamp DA, Stevens-Lapsley JE. Factors predicting weight-bearing asymmetry 1 month after unilateral total knee arthroplasty: a cross-sectional study. *Gait Posture*. 2013; 37(3): 363-367.
9. Stevens-Lapsley JE, Bade MJ, Shulman BC, Kohrt WM, Dayton MR. Minimally invasive total knee arthroplasty improves early knee strength but not functional performance: a randomized controlled trial. *J Arthroplasty*. 2012; 27(10):1812-1819.
10. Dayton MR, Bade MJ, Muratore T, Shulman BC, Kohrt WM, Stevens-Lapsley JE. Minimally invasive total knee arthroplasty: surgical implications for recovery. *J Knee Surg*. 2013; 26:195-202.
11. Bade MJ, Kittelson JM, Stevens-Lapsley JE. Relationship between preoperative, acute and long-term outcomes after total knee arthroplasty. *AJPM&R*. In Press.
12. Stevens-Lapsley JE, Bade MJ, Shulman BC, Wolfe P, Kohrt WM, Dayton MR. Minimally invasive total knee arthroplasty does not improve outcomes 1 year after surgery: a randomized controlled trial. *Acta Orthopaedica*. In review.
13. Christiansen CL, Bade MJ, Davidson BS, Stevens-Lapsley JE. Effects of weight-bearing biofeedback training on function movement patterns following TKA: A Pilot Study. In progress.
14. Keirns M, Bade MJ, Anemaet W. Effectiveness of trigger point dry needling for the treatment of lateral epicondylopathy. In progress.
15. Bade M, Chong N, Hammond D, Jensen J, Naputi D, Talbot I, Wright L, McPoil T. Establishing normative values, reliability, and responsiveness for two measures of weight-bearing dorsiflexion in healthy adults. In progress
16. McPoil TG, Haager M, Hilt J, Klapheke J, Martinez R, VanSteenwyk C, Weber N, Cornwall MW, Bade M. Can static foot posture measurements predict midfoot plantar surface area? In progress.

Non-refereed Journals

1. Bade MJ, Bell KA, Stevens-Lapsley JE, Manal TJ. Surgical Management and Rehabilitation of Knee Arthroplasty. Joint Arthroplasty: Advances in Surgical Management. Vol 20(2): American Physical Therapy Association Orthopedic Section; 2010.

Abstracts and Presentations

1. Bade MJ, Balter JE, Kramer LR, Kohrt WM, Stevens-Lapsley JE. Relationship between limb unloading and quadriceps strength loss after total knee arthroplasty**.** Presented at the American College of Sports Medicine Annual Meeting May, 2009.
2. Bade MJ, Stevens-Lapsley JE. Total knee arthroplasty outcomes compared to age-matched healthy adults pre-operatively and 6 months post-operatively. Presented at the APTA Section on Research meeting Aug, 2009.

3. Bade MJ, Struessel TA, Kohrt WM, Stevens-Lapsley JE. Quadriceps strength and stair climbing time after total knee arthroplasty. Presented at the APTA Combined Sections Meeting Feb, 2010.
4. Bade MJ, Wolfe P, Zeni JA, Stevens-Lapsley JE, Snyder-Mackler L. Determination of optimal timing for total knee arthroplasty using preoperative clinical measures. Presented at the APTA Combined Sections Meeting Feb, 2010.
5. Christiansen CL, Bade MJ, Stevens-Lapsley JE. Rehabilitation implications related to weight-bearing asymmetry after total knee arthroplasty. Presented at the 13th Annual Rehabilitation Education Forum at the University of Colorado Hospital Sept, 2010.
6. Bade MJ, Struessel T, Stevens-Lapsley JE. Early progressive rehabilitation following total knee arthroplasty improves outcomes. Presented at the American College of Rheumatology Annual Meeting Nov, 2010.
7. Bade MJ, Christiansen CL, Stevens-Lapsley JE. The relationship between weight bearing asymmetry, quadriceps strength, and stair climbing time after total knee arthroplasty. Presented at the APTA Combined Sections Meeting Feb, 2011.
8. Muratore T, Stevens-Lapsley JE, Bade MJ, Armour J, Dayton M. Minimally invasive total knee arthroplasty: does technique affect implant positioning? Presented at the Western Orthopaedic Association Annual Meeting July, 2011.
9. Dayton MR, Bade MJ, Shulman BC, Kohrt WM, Stevens-Lapsley JE. Minimally invasive total knee arthroplasty: impact on knee strength and functional performance. Presented at American Association of Hip and Knee Surgeons Annual Meeting Nov, 2011.
10. Bade MJ, Dayton MR, Shulman BC, Kohrt WM, Stevens-Lapsley JE. Minimally invasive total knee arthroplasty improves early knee strength but not functional performance: a randomized controlled trial. Presented at the APTA Combined Sections Meeting Feb, 2012.
11. Christiansen CL, Bade MJ, Luce M, Stevens-Lapsley JE. Factors predicting weight-bearing asymmetry 1 month after unilateral total knee arthroplasty. Presented at at the APTA Combined Sections Meeting Feb, 2012.
12. Dayton MR, Bade MJ, Shulman BC, Kohrt WM, Stevens-Lapsley JE. Minimally invasive total knee arthroplasty: impact on knee strength and functional performance. Presented at the American Academy of Orthopaedic Surgeons Annual Meeting Feb, 2012.
13. Bade MJ, Reynolds M, Davidson BS, Stevens-Lapsley JE, Christiansen CL. Weight-bearing biofeedback training following total knee arthroplasty: a randomized controlled trial. Presented at the 15th Annual Rehabilitation Education Forum at the University of Colorado Hospital Sept, 2012.
14. Bade MJ, Reynolds M, Davidson BS, Stevens-Lapsley JE, Christiansen CL. Weight-bearing biofeedback training following total knee arthroplasty: a randomized controlled trial. Presented at the APTA Combined Sections Meeting Jan, 2013.
15. Bade MJ, Kittelson A, Kohrt WM, Kittelson JM, Stevens-Lapsley JE. Relationship between preoperative, acute and long-term outcomes after total knee arthroplasty. Presented at the APTA Combined Sections Meeting Jan, 2013.

16. Bade MJ, Winters JD, Stevens-Lapsley JE. Recovery of eccentric knee extensor strength after total knee arthroplasty. Presented at the American College of Sports Medicine Annual Meeting May, 2013.
17. Christiansen CL, Bade MJ, Stuart P, Stevens-Lapsley JE, Davidson B. Weight-bearing biofeedback improves symmetry during bilateral stance after total knee arthroplasty. Presented at the American College of Sports Medicine Annual Meeting May, 2013.
18. McPoil TG, Haager M, Hilt J, Klapheke J, Martinez R, VanSteenwyk C, Weber N, Cornwall MW, Bade M. Can static foot posture measurements predict midfoot plantar surface area? Presented at the APTA Combined Sections Meeting Feb, 2014.
19. Bade M, Chong N, Hammond D, Jensen J, Naputi D, Talbot I, Wright L, McPoil T. Establishing normative values, reliability, and responsiveness for two measures of weight-bearing dorsiflexion in healthy adults. Presented at the APTA Combined Sections Meeting Feb, 2014.
20. Christiansen CL, Bade MJ, Dayton M, Hogan C, Stevens-Lapsley JE. Effects of weight-bearing biofeedback training on gait mechanics following total knee arthroplasty. Presented at the APTA Combined Sections Meeting Feb, 2014.
21. Bade MJ, Strussel TS, Eckhoff D, Stevens-Lapsley JE. The contribution of hip abduction strength to functional performance in persons with knee osteoarthritis. Presented at the APTA Combined Sections Meeting Feb, 2014.
22. Eckhoff D, Bade MJ, Strussel TS, Stevens-Lapsley JE. The impact of hip abduction strength to functional performance in individuals with knee osteoarthritis. Abstract accepted to the Association of Bone and Joint Surgeons Annual Meeting May, 2014.

Professional Awards and Special Recognitions

Awards and Honors

1. APTA Section on Geriatrics Adopt-A-Doc Award- 2010, 2011
2. Outstanding PhD Student in Clinical Investigation Award - 2008
3. APTA Mary McMillan Award – 2005
4. Medical Alumni Loyalty Award – University of North Carolina - 2004
5. University Merit Assistantship Award – University of North Carolina - 2003
6. Summa Cum Laude Honors - University of Colorado - 1998

Scholarships

1. Foundation for Physical Therapy Promotion of Doctoral Studies Scholarship II - 2011
2. Foundation for Physical Therapy Promotion of Doctoral Studies Scholarship I - 2010
3. Foundation for Physical Therapy Florence Kendall Doctoral Scholarship - 2008
4. North Carolina Physical Therapy Association Scholarship – 2004
5. Sharp Memorial Auxiliary Scholarship - 2003

Clinical and Professional Practice

1. Duke University Health System Shining Star Award - 2006

Current Grant Support

NIH R01-HD065900 (Stevens-Lapsley, PI) 8/15/11-5/31/16
Progressive Rehabilitation for Total Knee Arthroplasty
The major goal of this project is to determine the differences in clinical outcomes between a high intensity, progressive rehabilitation program compared to a traditional rehabilitation program after TKA.
Role: Research Coordinator
Funding amount: $2,469,362

Completed Grant Activity

Foundation for Physical Therapy Marquette Challenge Research Grant
(Christiansen, PI) 01/01/11-06/30/13
Improving Function with Weight-bearing Biofeedback
The major goal of this project is to determine the efficacy of a weight-bearing biofeedback intervention on recovery after TKA.
Role: Research Assistant
Funding amount: 40,000

NIH T32 AG00279 (Schwartz, PI) 05/01/10-4/30/12
Improving Strength and Function after Total Knee Arthroplasty
The major goal of this project is to determine efficacious clinical interventions to remediate functional deficits and aberrant movement patterns after TKA.
Role: Trainee
Funding amount: $43,200

ACR/REF Abbott Health Professional Graduate Student Research Preceptorship
(Bade, PI) 03/01/09-2/28/10
Progressive Rehabilitation following Total Knee Arthroplasty
The major goal of this project was to determine the effects of a novel, progressive rehabilitation program following knee replacement.
Role: Trainee
Funding amount: $6000

NIH K23-AG029978 (Stevens-Lapsley, PI) 9/30/08-8/31/13
Early NMES to Improve Quadriceps Muscle Function After Total Knee Arthroplasty
The major goal of this project is determine the effectiveness of NMES after TKA.
Role: Research Assistant
Funding amount: $716,144

NIH R03-AR054538 (Stevens-Lapsley, PI) 3/01/08-2/28/12
Functional Outcomes Following Minimally Invasive Total Knee Arthroplasty
The major goal of this project is to determine whether minimally invasive total knee arthroplasty improves functional outcomes when compared with traditional TKA.
Role: Research Assistant
Funding amount: $150,000

Professional Organizations

American Physical Therapy Association (orthopedic, geriatric, and research section member)-2004 to present
1. APTA Section on Research Nominating Committee 2013-2015
2. APTA Orthopaedics Section Research Committee 2014-2017
3. Colorado APTA Mentoring Committee Chair 2012 to present

American Academy of Orthopedic Manual Physical Therapists-2004 to present
1. Program Directors Special Interest Group 2014-present

Services to the University/College/School on Committees/Councils/Commissions

College
1. Research Committee, 2013 - present

School of Physical Therapy
1. Post-professional Studies Committee, 2013-present
2. Alumni Committee, 2013-present
3. Orthopedic Residency Taskforce, 2013-2014
4. Doctorate in Physical Therapy Committee, 2012-2013
5. Time-off Taskforce, 2012

Current Teaching Responsibilities:

Fall semester
1. DPT701 Anatomy (Palpation Lab)
2. DPT776 Critical Inquiry
3. DPT712 Diagnostic Imaging
4. DPT734 Musculoskeletal Management II
5. DPT772 Professional Issues III
6. DPT781 Manual Therapy Elective

Spring semester
1. DPT791 Evidence Based Practice II
2. DPT745T Lower Extremity Management (Fellowship)
3. DPT785T Virtual Rounds (Fellowship)

Summer semester
1. DPT733 Musculoskeletal Management I
2. DPT731 Differential Diagnosis

Student Mentoring

Research mentor to Fellowship students

1. William Kolb (2013-present)

Research mentor to DPT students

2. Ian Talbot (2012-2014)
3. David Naputi (2012-2014)
4. Daniel Hammond (2012-2014)
5. Lydia Wright (2012-2014)
6. Nicole Chong (2012-2014)
7. Jennifer Jensen(2012-2014)
8. Trevor Bouten (2013-present)
9. Anne Kim (2013-present)
10. Ethan Young (2013-present)
11. Michael Van Porfliet (2013-present)
12. Kyle Conboy (2013-present)
13. Stephanie Baertlein (2013-present)
14. Alicia Domsky (2013-present)
15. Barbara Fritz (2013-present)
16. Dain Gilbert (2013-present)
17. Megan Haas (2013-present)
18. Ryan Harrington (2013-present)
19. Rebecca Medin (2013-present)
20. Scott Parks (2013-present)
21. Timothy Richardt (2013-present)
22. Danielle Scialdo (2013-present)
23. Amanda Szafranski (2013-present)