Christopher G. Bise MS, PT, DPT, OCS
CURRICULUM VITAE

BIOGRAPHICAL

Name: Christopher G. Bise

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EDUCATION and TRAINING

GRADUATE:

Dates Attended	Name and Location of Institute	Degree Awarded	Major Discipline
May 2013 - Present	University of Pittsburgh – School of Medicine	PhD – **IN PROGRESS**	Clinical and Translational Science
September 2007 – August 2009	Massachusetts General Hospital Institute of Health Professions	Doctor of Physical Therapy	Physical Therapy
May 1994 – January 1996	Boston University – Sargent College of Health & Rehabilitation Sciences Boston, MA	Master of Science	Physical Therapy

UNDERGRADUATE:

Dates Attended	Name and Location of Institute	Degree Awarded	Major Discipline
August 1990- May 1994	Boston University – Sargent College of Health & Rehabilitation Sciences Boston, MA	Bachelor of Science	Health Science

APPOINTMENTS and POSITIONS

ACADEMIC POSITIONS:

Years Inclusive	Department, Name and Location of Institution	Rank/Title
2016 – Present	UPMC Health Plan – Department of Health Economics	Analyst
2012 – Present	Department of Physical Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Assistant Professor
2012 – Present	Department of Occupational Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Assistant Professor
2010 to 2012	Department of Physical Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Instructor

Years Inclusive	Department, Name and Location of Institution	Rank/Title
2008 to 2009	Department of Physical Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Visiting Assistant Professor

ACADEMIC APPOINTMENTS:

2004 - 2008	Department of Physical Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Adjunct Instructor
2006 – 2012	Department of Occupational Therapy, University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA	Adjunct Instructor

NON-ACADEMIC POSITIONS:

Years Inclusive	Department, Name and Location of Institution	Title
2011-Present	UPMC Centers for Rehab Services – Women's Health Residency	Mentor
2010-Present	UPMC Centers for Rehab Services – Orthopedic Residency	Mentor
2010-Present	UPMC Centers for Rehab Services – Sports Residency	Mentor
2010-Present	Children's Hospital of Pittsburgh; Pittsburgh, PA	Part-Time Physical Therapist
2009-2010	The Private Office of His Royal Highness Prince Alwaleed Bin Talal Bin Abdulaziz	Personal Physical Therapist
2006-2009	Children's Hospital of Pittsburgh; Pittsburgh, PA	Part-Time Physical Therapist
2005-2009	Nova Care Rehabilitation	PRN Physical Therapist
2005-2009	Keystone Rehabilitation Services	PRN Physical Therapist
2005-2009	Centers for Rehabilitation Services	PRN Physical Therapist
2005-2009	Residence for Renal Care	PRN Physical Therapist
2005-2009	Cynamed Staffing Services	PRN Physical Therapist
2004-2005	Nova Care Rehabilitation; Squirrel Hill, PA	Interim Center Manager
2003-2004	Nova Care Rehabilitation; Butler, PA	Staff Therapist / Center Manager
2002-2003	Nova Care Rehabilitation; Erie, PA	Interim Manager of Clinical Operations
2001-2003	NovaCare Rehabilitation; Grove City, PA	Center Manager
1997-2001	Department of Physical Therapy, HealthSouth Harmarville; Harmarville, PA	Staff Therapist
1996-1997	The Vista Center, Lisbon OH	Director of Physical Therapy

CERTIFICATION and LICENSURE

SPECIALITY CERTIFICATION:

American Board of Physical Therapy Specialties – Orthopedic Certified Specialist (OCS) May 2011

PROFESSIONAL LICENSURE:

Pennsylvania State Board of Physical Therapy, Licensed Physical Therapist PT-009367-L June 1996

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Years Inclusive
American Physical Therapy Association	1994 to present
Orthopedic Section, American Physical Therapy Association	1994 to present
Pennsylvania Physical Therapy Association	2005 to present
American Academy of Orthopedic and Manual Physical Therapists	2006 to present

PUBLICATIONS

1. Peer Reviewed Publications

1. Alrwaily M, Timko M, Schneider M, Stevans J, **Bise C,** Hariharan K, Delitto A. Treatment-Based Classification System for Low Back Pain: Revision and Update. *Phys Ther* 2015. doi:10.2522/ptj.20150345.
2. Bove A, Smith K, **Bise C,** Fritz J, Childs J, Brennan GP, Abbott JH, Fitzgerald GK. What Is the Most Cost-Effective Physical Therapy Strategy to Treat Knee Osteoarthritis? [abstract]. *Arthritis Rheumatol*. 2015; 67 (suppl 10). http://acrabstracts.org/abstract/what-is-the-most-cost-effective-physical-therapy-strategy-to-treat-knee-osteoarthritis/
3. Stevans JM, **Bise CG,** McGee JC, Miller DL, Rockar P, Delitto A; Evidence-based practice implementation: a case report of the evolution of a quality improvement program in a multi-center physical therapy organization. *Phys Ther* 2015. (95):588-599

2. Non-Peer Reviewed Publications

Books and Book Chapters

1. **Bise CG**, Delitto A. Chapter 19 – Quality Improvement in Action. In: Hack L, editor. "Evidence Into Practice: Integrating Judgment Research and Values.

3. Non-Peer Reviewed Publications

1. **Bise CG**. Lumbar Spine – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
2. **Bise CG**. Lumbar Spine – Operative Procedures and Rehabilitative Considerations; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
3. **Bise CG**. Cervical Spine – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
4. **Bise CG**. Hip – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
5. **Bise CG**. Knee – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
6. **Bise CG**. Ankle – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
7. **Bise CG**. Shoulder – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012

8. **Bise CG**. Shoulder – Surgical Treatment of Impingement and Rotator Cuff Tears; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
9. **Bise CG**. Shoulder – Total Shoulder Replacement and Post-Surgical Rehabilitation; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
10. **Bise CG**. Shoulder – Surgical Treatment and Post-Surgical Rehabilitation of Shoulder Instability; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
11. **Bise CG**. Elbow – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
12. **Bise CG**. Wrist and Hand – Clinically Oriented Anatomy; e-Learning Module, Universal Musculoskeletal Curriculum, Evidence in Motion, Louisville, KY, 2012
13. **Bise CG**. Physical Therapists Guide to Cubital Tunnel Syndrome. From: "Move Forward" Online Consumer Guide from the APTA. 2012 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=1533497e-63fd-401c-84ac-a87b9baa633f
14. **Bise CG**. Physical Therapists Guide to Low Back Pain. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=d0456c65-7906-4453-b334-d9780612bdd3
15. **Bise CG**. Physical Therapists Guide to Degenerative Disc Disease. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=514086b4-1272-4584-8742-ec6d2aa8f8cb
16. **Bise CG**. Physical Therapists Guide to Spinal Stenosis. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=5e4daaa0-cb21-4eee-8484-e728617397aa
17. **Bise CG**. Physical Therapists Guide to Herniated Disc. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=79ef56df-780e-4ad0-963f-94364404125a
18. **Bise CG**. Physical Therapists Guide to Adhesive Capsulitis. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=00661806-1fa0-4fc0-ba17-ea32751d7412
19. **Bise CG**. Physical Therapists Guide to Anterior Cruciate Ligament Tear. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=d8e73ca8-71f4-48a7-92f8-675bca38232c
20. **Bise CG**. Physical Therapists Guide to Patellofemoral Pain. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=f6dfe597-2f7d-4f1e-9aff-67694dca085f
21. **Bise CG**. Physical Therapists Guide to Meniscal Tears. From: "Move Forward" Online Consumer Guide from the APTA. 2011 http://www.moveforwardpt.com/SymptomsConditionsDetail.aspx?cid=929a006a-f848-4619-acc0-7d7bd4ba4ce9

PROFESSIONAL ACTIVITIES

TEACHING:

1. Courses - Faculty

1. *Course Title:* **PT 2131: Evaluation and Treatment of Musculoskeletal Disorders I**

Position: Instructor

Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy, Pittsburgh, PA

Year(s), number of students: Fall 2006, 45 Doctor of Physical Therapy (DPT) students; Fall 2007, 52 Doctor of Physical Therapy (DPT) students; Fall 2008, 66 Doctor of Physical Therapy (DPT) students; Fall 2010, 51 Doctor of Physical Therapy (DPT) students; Fall 2011, 53 Doctor of Physical Therapy (DPT) students; Fall 2012, 62 Doctor of Physical Therapy (DPT) students; Fall 2013, 54 Doctor of Physical Therapy (DPT) students; Fall 2014, 62 Doctor of Physical Therapy Students; Fall 2015 54 Doctor of Physical Therapy (DPT) students.

Contact hours; number of lectures: 8 hours per week; 30 lectures

Description: This course examines the evaluation and treatment of musculoskeletal disorders of the lower extremity. I was originally an adjunct instructor but was brought on as a co-instructor with Mike Timko in 2008 to coordinate and direct the lab activities and become part of the instructional team. Since that time I have redesigned the knee unit to focus on evidenced based evaluation and intervention based on current literature. In 2011 I began an effort to "flip" our classroom to provide additional laboratory time and create more time for Socratic discussion. In 2012 this class transitioned to 80% of lectures being flipped. Additionally I have guided our clinical specialists with instructional duties, in lecture preparation reflecting current evidence and practice. In this class students are taught medical screening for the lower quarter and individual joint evaluations of the hip, knee, ankle, and foot. Each unit looks in-depth at the anatomy, biomechanics, and musculoskeletal pathology of each joint. Students are taught range of motion, manual muscle testing and special tests to assist with differential diagnosis of specific pathologies. Finally the students are instructed in impairment based intervention and treatment, including manual therapy interventions, based on their evaluation findings. This course uses didactic, laboratory and online instruction to train students. Proficiency is assessed using written and practical examinations.

2. *Course Title:* **PT 2132: Evaluation and Treatment of Musculoskeletal Disorders II**

Position: Instructor

Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy, Pittsburgh, PA

Year(s), number of students: Spring 2007, 45 Doctor of Physical Therapy (DPT) students; Spring 2008, 52 Doctor of Physical Therapy (DPT) students; Spring 2009, 66 Doctor of Physical Therapy (DPT) students; Spring 2011, 51 Doctor of Physical Therapy (DPT) students; Spring 2012, 52 Doctor of Physical Therapy (DPT) students; Spring 2013, 62 Doctor of Physical Therapy (DPT) students; Spring 2014, 54 Doctor of Physical Therapy (DPT) students; Spring 2015, 61 Doctor of Physical Therapy Students; Spring 2016 54 Doctor of Physical Therapy (DPT) students;

Contact hours; number of lectures: 8 hours per week; 30 lectures

Description: This course examines the evaluation and treatment of musculoskeletal disorders of the spine and the shoulder. I was originally an adjunct instructor but was brought on as a co-instructor with Mike Timko in 2008 to coordinate and direct the lab activities and become part of the instructional team. Originally the course addressed only the spine and shoulder. Since that time I have redesigned the course to include evidence based evaluation and intervention of the shoulder, elbow, wrist and hand focusing on current literature. In this class students are taught medical screening for the upper quarter, spine and joint evaluations of the shoulder, elbow, wrist and hand. In 2011 I began an effort to "flip" our classroom to provide additional laboratory time and create more time for Socratic discussion. In 2013 this class transitioned to 80% of lectures being flipped. Each unit looks in-depth at the anatomy, biomechanics, and musculoskeletal pathology of each joint. Students are taught range of motion, manual muscle testing and special tests to assist with differential diagnosis of specific pathologies. Finally the students are instructed in impairment based intervention and treatment, including manual therapy interventions, based on their evaluation findings. This course uses didactic, laboratory and online instruction to train students. Proficiency

is assessed using written and practical examinations.

3. *Course Title:* **PT 2133: Evaluation and Treatment of Musculoskeletal Disorders III**
   Position: Instructor
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy, Pittsburgh, PA
   Year(s), number of students: Fall 2010, 51 Doctor of Physical Therapy (DPT) students; Fall 2011, 53 Doctor of Physical Therapy (DPT) students; Fall 2012, 52 Doctor of Physical Therapy (DPT) students; Fall 2013, 62 Doctor of Physical Therapy (DPT) students; Fall 2014, 54 Doctor of Physical Therapy (DPT) students; Fall 2015, 61 Doctor of Physical Therapy (DPT) students
   Contact hours; number of lectures: 4 hours per week; 15 lectures
   Description: This course originally examined the evaluation and treatment of musculoskeletal disorders of the elbow, wrist and hand. Additionally, clinical faculty presented functional movement screening, soft tissue interventions, and ergonomics. Finally the students went through a case based preparation for a final, musculoskeletal practical which encompassed the entire, three course, musculoskeletal sequence. I was originally a co-instructor with Pat Sparto and Mike Timko for 2010 and became the primary instructor in 2011. In 2011 this course underwent a complete overhaul. The elbow wrist and hand were moved to an upper extremity unit (PT 2132) and the redesigned course includes an evidence based unit on treatment of chronic pain, evidenced based use of soft tissue interventions, an extended functional movement analysis unit and an ergonomics unit. The final 4 classes of the course are cased based, interactive presentations by the instructional staff in preparation for the comprehensive practical examination. Upon completion, students will complete a basic functional movement screen, have an understanding of chronic pain and its effect on musculoskeletal pathology and be able to complete a comprehensive musculoskeletal evaluation of all peripheral joints and the spine. This course uses didactic, laboratory and online instruction to train students. Proficiency is assessed using written and a comprehensive practical examination which tests the knowledge gained in the entire musculoskeletal sequence.

4. *Course Title:* **PT 2035: Clinical Biomechanics**
   Position: Instructor
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy, Pittsburgh, PA
   Year(s), number of students: Summer 2015, 61 Doctor of Physical Therapy (DPT) students; Summer 2016, 54 Doctor of Physical Therapy (DPT) students.
   Contact hours; number of lectures: 4 lectures, 3 hours each, 6 labs 4 hours each. 36 total contact hours.
   Description: This course is co-taught with the musculoskeletal team. The course introduces students to the study of biomechanics as it relates to the clinical practice of physical therapy, and advances their knowledge in the application of therapeutic exercise for musculoskeletal disorders. PT 2035 utilizes a unique interdisciplinary approach to describe the movement and forces acting upon the various body segments by integrating principles from the fields of anatomy, physiology, physics, and engineering. This course focuses on the application of biomechanical principles to various aspects of physical therapy practice such as injury mechanism, exercise prescription, gait and assistive device evaluation, as well as the biomechanical considerations of treating various soft tissue pathologies. Lectures given include 1) Gait Biomechanics; 2) Biomechanics of Running; 3) Mechanics of the Axial Spine 1&2.

5. *Course Title:* **PT 2073: Evidence Based Practice II**
   Position: Instructor
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy, Pittsburgh, PA

Year(s), number of students: Summer 2010, 51 Doctor of Physical Therapy (DPT) students; Summer 2011, 53 Doctor of Physical Therapy (DPT) students; Summer 2012, 52 Doctor of Physical Therapy (DPT) students; Summer 2013, 64 Doctor of Physical Therapy (DPT) students; Summer 2014, 54 Doctor of Physical Therapy (DPT) students; Summer 2015, 61 Doctor of Physical Therapy (DPT) students

Contact hours; number of lectures: 2 hour per week, 6 lectures.

Description: This course is co-taught with the department chair, Dr. Anthony Delitto. This course is the second in the evidenced based practice and introduces the concepts of self-appraisal in the clinical setting, as students prepare for their first full time clinical. Students are introduced to comparative effectiveness research, clinical performance review, critical thinking relating to clinical outcomes and value based healthcare.

6. *Course Title:* **PT 2074: Evidence Based Practice III**

Position: Instructor

Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA

Year(s), number of students: Fall 2010, 51 Doctor of Physical Therapy (DPT) students; Fall 2011, 53 Doctor of Physical Therapy (DPT) students; Fall 2012, 52 Doctor of Physical Therapy (DPT) students; Fall 2013, 64 Doctor of Physical Therapy (DPT) students; Fall 2014, 54 Doctor of Physical Therapy (DPT) students

Contact hours; number of lectures: 3 hours per week; 14 lectures

Description: This course is co-taught with the department chair, Dr. Anthony Delitto. This course is the third in the evidenced based practice and continues to build upon the concept of self-appraisal in the clinical setting, presented in Evidence Based Practice II. Students are introduced to diagnosis in the clinical setting, reliability, practice based evidence, outcomes management and quality improvement in the clinic. This course was initially taught in a traditional manner but underwent an overhaul in 2011, changing to a combination of traditional instruction, online instruction and online assessment.

6. *Course Title:* **HRS 2022: Gross Human Anatomy**

Lecture Subject: Human Anatomy

Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Occupational Therapy, Pittsburgh, PA

Department: Occupational Therapy

Year(s), number of students: Summer 2006, 35 Masters in Occupational Therapy (MOT) students; Summer 2007, 36 Masters in Occupational Therapy (MOT) students; Summer 2008, 38 Masters in Occupational Therapy (MOT) students; Summer 2009, 49 Masters in Occupational Therapy (MOT) students; Summer 2010, 50 Masters in Occupational Therapy (MOT) students; Summer 2011, 50 Masters in Occupational Therapy (MOT) students; Summer 2012, 55 Masters in Occupational Therapy (MOT) students; Summer 2013, 51 Masters in Occupational Therapy (MOT) students

Contact hours; number of lectures: 8 Lecture hours per week, 8 Lab hours per week; 32 Lectures, 32 Lab Presentations.

Description: This course is an intensive 8 week course presenting the gross human anatomy of the human body. During this course students are introduced to the musculoskeletal anatomy of the human body using prosected cadavers prepared by the instructor and assistants from the department of physical therapy. Initially this course consisted of 1 laboratory instructor and 2 hours of laboratory time per week. I have slowly increased the time required for laboratory participation and have added a bone lab to supplement additional required material. To meet the needs of the students and ensure success I initiated an innovative program using top performers from the previous class, enlisting them as paid laboratory assistants. This has turned into an excellent leadership and mentoring program for the students involved.

2. Courses – Adjunct Instructor

1. *Course Title:* **PT 2030: Gross Human Anatomy**
   Subject: Human anatomy
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Description: This course is an intensive 10 week course presenting the gross human anatomy of the human body. During this course, physical therapy students are introduced to the musculoskeletal anatomy of the human body using prosected cadavers prepared by the adjunct instructor and other lab assistants from the department of physical therapy. I have dissected regularly since being asked to assist with this class. The lab instructors are expected to be acutely familiar with the dissections and be able to recognize and teach normal anatomy with variants specific to each cadaver.
   Date(s): Summer 2006; Summer 2007; Summer 2008, Summer 2009, Summer 2010, Summer 2011, Summer 2012

2. *Course Title:* **PT 2062: Neuromuscular Evaluation and Treatment II**
   Lecture Subject: Mild Brain Injury: Recognizing the concussed patient.
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Contact hours; number of lectures: 1 lecture, 4 hours
   Date(s): Fall 2007

3. Courses – Guest Lecturer

1. *Course Title:* **PT 2062: Neuromuscular Evaluation and Treatment II**
   Subject: Mild Brain Injury: Recognizing the concussed patient.
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Department of Physical Therapy
   Date(s): Fall 2005; Fall 2006;

2. *Course Title:* **OT 2108: Clinical Neurology and Orthopedics**
   Subject: Upper Extremity Fractures and the Implications for Rehabilitation
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Department of Occupational Therapy
   Date(s): Feb 2011; Feb 2012; Jan 2013; Jan 2014; Jan 2015; Jan 2016

3. *Course Title:* **OT 2108: Clinical Neurology and Orthopedics**
   Subject: Overview of Low Back Pain
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Department of Occupational Therapy
   Date(s): Jan 2012

4. *Course Title:* **HRS 2365: Case Studies in Patients with Neuromuscular Disorders**
   Subject: Neuromuscular Disorders in Pediatrics: An Overview and an Evidence Based Update
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Department of Physical Therapy
   Date(s): July 2009, July 2012, July 2011, July 2012, July 2013; July 2014

4. Courses – Laboratory Instructor

3. *Course Title:* **PT 2030: Gross Human Anatomy**
   Subject: Human anatomy
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Date(s): Summer 2006; Summer 2007

4. *Course Title:* **PT 2131: Musculoskeletal Evaluation and Treatment I**
   Subject: Ergonomic Assessment
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Date(s): Fall 2005; Fall 2006

5. *Course Title:* **PT 2132: Musculoskeletal Evaluation and Treatment II**
   Subject: Ergonomic Assessment
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Date(s): Spring 2006; Spring 2007

6. *Course Title:* **PT 2061: Neuromuscular Evaluation and Treatment I**
   Subject: Evaluation and treatment of the patient with neurologic disorders
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Date(s): Summer 2003; Summer 2004; Summer 2005

7. *Course Title:* **PT 2062: Neuromuscular Evaluation and Treatment II**
   Subject: Evaluation and treatment of the patient with neurologic disorders
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences, Pittsburgh, PA
   Department: Physical Therapy
   Date(s): Fall 2003; Fall 2004; Fall 2005

8. *Course Title:* **PT 2063: Neuromuscular Evaluation and Treatment III**
   Subject: Evaluation and treatment of the patient with neurologic disorders
   Name and Location of the Institution: University of Pittsburgh, School of Health and Rehabilitation Sciences,

Pittsburgh, PA
Department: Physical Therapy
Date(s): Spring 2004; Spring 2005; Spring 2006

4. Invited Lectures and Peer-Reviewed Seminars

International

1. **Christopher Bise, PT, MS, DPT, OCS,** Michael Timko, PT, MS, FAAOMPT. International Certification in Rehabilitation of the Lumbar Spine using Subgroups; Endorsed by the University of Pittsburgh and The Wilson Mello Institute - Campinas Brazil. 4 days – 28.0 hours. Wilson Mello Institute; June 2nd- June 5th, 2016; Campinas, Brazil.

National

2. **Christopher Bise, PT, MS, DPT, OCS;** Jerry Durham, PT; Brooke McIntosh, DPT Ann Wendel, PT, ATC. Mentoring Millennials – Passing the baton to the new generation. 2.0 hr. session. American Physical Therapy Association – Education Section; February 20th, 2016; Anaheim, CA
3. Jason Bellamy, BS; **Christopher Bise, PT, MS, DPT, OCS;** Matt DeBole, SPT; Jerry Durham, PT; Selena Horner, PT, GCS, ATC; Kyle Ridgeway, DPT; Ann Wendel, PT, ATC. The value of using Twitter for branding yourself and the profession. 2.0 hr. session. American Physical Therapy Association – Health Policy and Administration Section; February 4th, 2014; Las Vegas, NV.
4. Mike Pascoe, PhD; **Christopher Bise, PT, MS, DPT, OCS;** Todd E. Davenport, PT, DPT; Timothy Noteboom, PT, PhD. Follow Us – Lessons Learned from Social Media Programs in Physical Therapy. 2.0 hr. session. American Physical Therapy Association – Education Section; January 23, 2013; San Diego, CA.
5. **Bise, Christopher G**. Lower Extremity Musculoskeletal Assessment of the Rheumatology Patient. 1.5 hr. session. 2011 American College of Rheumatology/Association of Rheumatology Health Professionals; November 10, 2011; Chicago, IL.

Local

1. **Bise CG.** Dissemination and Implementation: The Intersection of Science and Practice. University of Pittsburgh – Miami Marquette Challenge Continuing Education Lecture. April 12th, 2014; Pittsburgh, PA
2. **Bise CG.** Pragmatic Treatment of Low Back Pain. UPMC Centers for Rehabilitation Services – Erie Region. October 19th, 2013; Erie PA
3. **Bise CG.** Orthopedic Evaluation of the Flexor Region of the Forearm. Department of Occupational Therapy, UPMC Children's Hospital of Pittsburgh. June 27th, 2011; Pittsburgh, PA
4. **Bise CG.** Orthopedic Evaluation of the Extensor Region of the Forearm. UPMC Children's Hospital of Pittsburgh. June 20th, 2011; Pittsburgh, PA
5. **Bise CG.** Scoliosis Screening for School Nurses. PA Department of Health, Southwest District, School Health Update. May 1st, 2008; Pittsburgh, PA

5. Mentoring and Research Supervision

Mentoring – UPMC Centers for Rehabilitation Services – Orthopedic Physical Therapy Residency Program

1. *Mentee's name:* Ben Reed, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services

Aspects of Mentoring – Mentored and coached Mr. Reed in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
Dates: 2012-2013

2. *Mentee's name:* Sarah Davin, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Ms. Davin in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
   Dates: 2011-2012

3. *Mentee's name:* Steven Tacaks, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences, and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Mr. Tacaks in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
   Dates: 2011-2012

Mentoring – UPMC Centers for Rehabilitation Services – Sports and Orthopedic Physical Therapy Residency Program

1. *Mentee's name:* Joseph Micca, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Mr. Micca in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
   Dates: 2013-2014

2. *Mentee's name:* Megan Carter, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Ms. Carter in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
   Dates: 2013-2014

3. *Mentee's name:* Brittany Patterson, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Ms. Patterson in the aspects of advanced orthopedic practice including evaluation, treatment and differential diagnosis.
   Dates: 2012-2013

4. *Mentee's name:* Christin Donofrio, DPT
   Institution, School, and Department: University of Pittsburgh, School of Health and Rehabilitation Sciences and UPMC Centers for Rehabilitation Services
   Aspects of Mentoring – Mentored and coached Ms. Donofrio in the aspects of advanced orthopedic practice with an emphasis on the evaluation, treatment and differential diagnosis of Sports Related Injuries.
   Dates: 2011-2012

Mentoring – Department of Occupational Therapy – Gross Human Anatomy Laboratory Assistants

1. *Institution, School, and Department*: University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Occupational Therapy

   Aspects of Mentoring – Mentored and coached paid laboratory assistants to assist students in successful completion of the Gross Human Anatomy class in the Department of Occupational Therapy. Mentoring included weekly meetings with lab assistants to address student status and review prosections for presentation to students

   Date / Mentees:

   Summer 2013
   - Alison D'Amico – MOT
   - Jennifer Halterman – MOT
   - Samantha Kozlowski – MOT
   - Elizabeth MacKay – MOT
   - Jamie Sardineer – MOT

   Summer 2012
   - Kailey Bedford – MOT
   - Alison Brown – MOT
   - Alexandra Harper – MOT
   - Alyssa Rittenhouse – MOT
   - Eileen Wilmsen – MOT

   Summer 2011
   - Katelyn Fox – MOT
   - Michelle Gerstenhaber – MOT
   - Hunter Korchak – MOT
   - Ruth Plasterer – MOT
   - Christie Staton – MOT

   Summer 2010
   - Emily McCalmot – MOT
   - Maria Raco – MOT
   - Laura Mariotti – MOT
   - Geoffery Mack – MOT

   Summer 2009
   - Amanda Miller – MOT
   - Sarah Petrus – MOT
   - Lori Sopko – MOT
   - Shelley Watkiss – MOT

6. <u>Continuing Education Activities Related to Teaching</u>

1. American Physical Therapy Association – Combined Sections Meeting; February 17th-20th, 2016; Anaheim, CA. **Contact Hours : 16**
2. American Physical Therapy Association – Combined Sections Meeting; February 4th-7th, 2015; Indianapolis, IN. **Contact Hours : 16**
3. American Physical Therapy Association – Combined Sections Meeting; February 3rd-6th, 2014; Las Vegas, NV. **Contact Hours : 16**

4. American Physical Therapy Association – Combined Sections Meeting; January 20th-24th, 2013; San Diego, CA. **Contact Hours : 16**
5. Caring for patients with Newly Acquired Blindness. Tara McHugh. Southwest District of PPTA, School for Blind Children; April 10th, 2012. **Contact Hours : 1**
6. Deep Brain Stimulation. Dr. Catherine Birk, MD. Southwest District of PPTA, Harmarville PA; March 13th, 2012. **Contact Hours : 1**
7. Advances in Examination, Evaluation, and Treatment of Patients with Selected Shoulder Conditions: Emphasis on Evidence Based Practice. Dr. George Davies DPT, MED, PT, SCS, ATC, LAT, CSCS, PES, FAPTA; University of Pittsburgh, Department of Physical Therapy; March 3rd – 4th 2012; Pittsburgh, PA. **Contact Hours : 14.5**
8. American Physical Therapy Association – Combined Sections Meeting; February 8th-12th, 2012; Chicago, IL. **Contact Hours : 10**
9. ACR/ARHP Annual Scientific Meeting; November 8th-9th, 2011; Chicago, IL. **Contact Hours : 16**
10. Functional Recovery After TKA and THA; Perspectives Make A Difference. Dr. Adolf Yates MD; Southwest District of PPTA, West Penn Hospital. April 12th, 2011. **Contact Hours : 1**
11. Clinical Update on the Treatment of the Cervical Spine. William DiLeonardo PT, OTR/L, CHT, CSCS, OCS, FAAOMPT; Southwest District of PPTA, Shadyside Hospital; March 19th, 2011. **Contact Hours : 3**
12. Tai Chi: Overview, Clinical Benefits and Practice. Dr. Ronald Glick MD and Joseph Bozelli; Southwest District of PPTA, West Penn Hospital; Sept 13th 2011. **Contact Hours : 1**
13. American Physical Therapy Association Annual Meeting; June 8th-12th, 2011; Washington, DC. **Contact Hours : 10**
14. Evidence Based Differential Diagnosis and Screening in Physical Therapist Practice. Dr. Gail D. Deyle PT, DSc. DPT, OCS, FAAOMPT; Pennsylvania Physical Therapy Association Annual Meeting; October 23rd-24th, 2010; Harrisburg, PA. **Contact Hours : 10**
15. Evidence Based Practice: Grade V Mobilization [HVLAT] for the Lumbar Spine and SI Joint. Brett A. Windsor PT, MPA, OCS, FAAOMPT; St. Francis University, Department of Physical Therapy; July 16th-17th, 2010; Loretto, PA. **Contact Hours : 12**
16. Classification Based Management of Patients with Neck Pain. Dr. Julie Fritz PT, PhD & Dr. Gerard Brennan PT, PhD, University of Pittsburgh, Department of Physical Therapy; January 19th-20th, 2008; Pittsburgh, PA. **Contact Hours : 11.5**
17. Advance Clinical Practice: Manual Therapy for the Upper Quarter. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; October 5th-6th, 2007; Morgantown, WV. **Contact Hours : 12**
18. Advance Clinical Practice: Manual Therapy for the Lower Quarter. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; July 27th – 28th, 2007; Morgantown, WV. **Contact Hours : 12**
19. Consideration for Management of Neck Pain: Biomechanical Assessment of the Cervical Spine. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; May, 2007; Morgantown, WV. **Contact Hours : 16**

20. Consideration for Management of Low Back Pain. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; March 23rd-24th, 2007; Morgantown, WV. **Contact Hours : 16**
21. Considerations for the Management of Low Back Pain: Pelvic Component. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; July 21st-22nd, 2006; Morgantown, WV. **Contact Hours : 12**
22. Clinical Decision Making for the Orthopedic Clinician: The Lower Quarter. Dr. Richard Erhard DC, PT & Michael Timko PT, MS, OMT, FAAOMPT; West Virginia University, Department of Physical Therapy; May 5th-6th, 2006; Morgantown, WV. **Contact Hours : 12**
23. The Pelvic Girdle. Richard Jackson PT, OCS; Richard Jackson Seminars; June 28th-30th, 2002 Eagan MN; **Contact Hours : 19**
24. NDT Adult Introductory Course; HealthSouth Continuing Education, HealthSouth Rehabilitation of Mechanicsburg; September 17th-19th, 1998; Mechanicsburg PA. **Contact Hours : 18.5**

PROFESSIONAL ACTIVITIES

RESEARCH:

1. **Clinical Evaluator for Altaluren**
   Study Name / Purpose: Evaluation of Ataluren Therapy in Muscular Dystrophy
   Institution, Department: UPMC Children's Hospital of Pittsburgh, Department of Neurology
   Responsibilities – Using standardized outcome measures including the Northstar test of lower limb function and the PUL for upper limb function, assess the gross motor function children in the study.
   Dates: 2014 – Present

2. **Clinical Evaluator for Eli Lilly**
   Study Name / Purpose: Evaluation of Cialis in Muscular Dystrophy
   Institution, Department: UPMC Children's Hospital of Pittsburgh, Department of Neurology
   Responsibilities – Using standardized outcome measures including the Northstar test of lower limb function and the PUL for upper limb function, assess the gross motor function children in the study.
   Dates: 2014 – Present

3. **Clinical Evaluator for Ultragenyx**
   Study Name / Purpose: Evaluation of Clinical Effects of UX007 in Subjects With Long Chain Fatty Acid Disorders
   Institution, Department: UPMC Children's Hospital of Pittsburgh, Department of Genetics; PI: Dr. Gerald Vockley
   Responsibilities – Using standardized outcome measures PDMS assess the gross motor function of infants and children in the study. Using 12 MWT assess the motor function and endurance of adolescents and adults in the study.
   Dates: 2013 – Present

4. **Clinical Evaluator for Enobia/Alexion**
   Study Name / Purpose: Evaluation of Enzyme Replacement Therapy in Infantile and Pediatric Hypoposphatasia
   Institution, Department: UPMC Children's Hospital of Pittsburgh; Department of Genetic Medicine; PI: Dr. Gerald Vockley

Responsibilities – Using standardized outcome measures (Bayley Scales of Infant and Toddler Development, Peabody Developmental Motor Scales, and the Bruininks-Oseretsky Test of Motor Proficiency, Second Edition) assess the gross motor function of infants and children in the study.
Dates: 2011 – Present

5. Clinical Evaluator for Edison

Study Name / Purpose: An Open-Label Phase 2 Safety and Efficacy Study of EPI-743(Vincerinone) in Children with Pearson Syndrome.
Institution, Department: UPMC Children's Hospital of Pittsburgh, Department of Genetics; PI: Dr. Amy Goldstein
Responsibilities – Using standardized outcome measures (GMFM-66 and GMFM-88) assess the gross motor function of infants and children in the study.
Dates: 2014 – 2015

6. Clinical Evaluator for Genzyme

Study Name / Purpose: Evaluation of Enzyme Replacement Therapy in Infantile Pompe Disease
Institution, Department: UPMC Children's Hospital of Pittsburgh; Department of Genetic Medicine; PI: Dr. David Feingold
Responsibilities – Using standardized outcome measures (GMFM-66 and GMFM-88) assess the gross motor function of infants and children in the study.
Dates: 2012 – 2014

7. Clinical Evaluator for the Cooperative International Neuromuscular Research Group (CINRG)

Study Name / Purpose: Clinical Evaluator for CINRG investigating multiple interventions and longitudinal studies involving neuromuscular disorders in pediatrics and adolescents.
Institution, Department: UPMC; Department of Neurology; PI: Dr. Paula Clemens
Responsibilities – Using proprietary quantitative muscle testing technology, evaluate the strength and motor function of individuals with neuromuscular disorders. Additional assessments include assessments of gross functional performance and pulmonary function testing.
Dates: 2008 – 2012

8. Clinical Evaluator for Genzyme

Study Name / Purpose: Evaluation of Enzyme Replacement Therapy in Pompe Disease.
Institution, Department: UPMC; Department of Neurology; PI: Dr. Paula Clemens
Responsibilities – Using proprietary quantitative muscle testing technology, evaluate the strength and motor function of individuals with Pompe Disease. Additional assessments include assessments of gross functional performance and pulmonary function testing.
Dates: 2005 – 2009

9. Clinical Evaluator for Department of Rheumatology

Study Name / Purpose: Evaluation of use of Rituximab in Myositis.
Institution, Department: UPMC; Department of Rheumatology; PI: Dr. Chet Oddis
Responsibilities – Using a standardized manual muscle testing protocol, evaluate the strength and motor function of individuals with Myositis
Dates: 2004 – 2009

PROFESSIONAL ACTIVITIES

SERVICE:

1. International, National, University, and School of Health and Rehabilitation Sciences Committees

National Committees

1. Editorial Board Member, Move Forward PT, Consumer Website of the APTA; 2012 April – April 2013.
2. Subcommittee Member, Technology Task Force, Orthopedic Section of the APTA; 2011 Oct - Present.
3. Legislative Chair, SWD of the Pennsylvania Physical Therapy Association; 2010 May – 2015 February.

University of Pittsburgh Committees

1. Curriculum Committee, Institute For Clinical Research Education, University of Pittsburgh School of Medicine; 2015 - present
2. University Senate Commonwealth Relations Committee, University of Pittsburgh; appointed 2011 - present.

School of Health and Rehabilitation Sciences Committees

1. Social Media Committee , University of Pittsburgh, School of Health and Rehabilitation Sciences; 2012 – Present.

Department of Physical Therapy Committees

1. Chair of Technology and Social Media Task Force, University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy; 2011 – Present.
2. Chair of Alumni and Stakeholder Relations Committee, University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy; 2010 - Present.
3. Chair of Public Relations Committee , University of Pittsburgh, School of Health and Rehabilitation Sciences, Department of Physical Therapy; 2010 – Present.

2. Community Activities

1. Provided expert written testimony on behalf of the Pennsylvania Physical Therapy Association in response to insurers inappropriately defining physical therapy services. The lower extremity document was researched and referenced to reflect the current body of evidence. ACL Reconstruction, Knee OA, Knee Sprain, Meniscal tears (medial and lateral), Patellar Tendonitis, Patellofemoral Pain Syndrome (PFPS), and Total Knee Arthroplasty (TKA). The document was 19 pages in length and had 22 references.
2. Provided expert written testimony on behalf of the Pennsylvania Physical Therapy Association in response to insurers inappropriately defining physical therapy services. The shoulder document was researched and referenced to reflect the current body of evidence. The document encompassed the following diagnoses: Adhesive Capsulitis, Arthroscopic Procedures of the Shoulder, Dislocation of the Shoulder, and Rotator Cuff Repair with and without Distal Clavicle Resection. The document was 18 pages in length with 8 references.