CURRICULUM VITAE

DATE: June 2023

NAME: Lynnette Ching Ling Khoo-Summers

CONTACT INFORMATION:

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PRESENT POSITION: 2014 TO PRESENT

Associate Professor Program in Physical Therapy Department of Orthopaedic Surgery Washington University School of Medicine St Louis, Missouri

EDUCATION:

<u>Date:</u> 1986-1990	<u>Degree:</u> BA	<u>Institution:</u> Colorado State University Fort Collins, Colorado	<u>Field:</u> Performing Arts & Technical Journalism
1996-1998	MSPT	Washington University School of Medicine St Louis, Missouri	Physical Therapy
2004-2008	DPT	Washington University School of Medicine St Louis, Missouri	Physical Therapy

ACADEMIC POSITIONS/ EMPLOYMENT:

<u>Date(s):</u> April 1999 – Jan. 2001	Position: Physical Therapist	Institution/Facility: BJC Rehabilitation and Fitness Center & Milliken Hand Rehabilitation Center St. Louis, Missouri
Jan. 2001 - June 2006	Laboratory Instructor	Washington University School of Medicine Program in Physical Therapy St. Louis, Missouri
Jan. 2001 - June 2006	Physical Therapist	The Rehabilitation Institute of St Louis & Milliken Hand Rehabilitation Center St. Louis, Missouri

July 2006 – June 2009	Instructor	Washington University School of Medicine Physical Therapy and Orthopaedic Surgery St. Louis, Missouri
July 2009 – June 2014	Assistant Professor	Washington University School of Medicine Physical Therapy and Orthopaedic Surgery St. Louis, Missouri
July 2014 - present	Associate Professor	Washington University School of Medicine Physical Therapy and Orthopaedic Surgery St. Louis, Missouri

TEACHING TITLE AND RESPONSIBILITIES:

Professional Clinical Doctorate (DPT) Curriculum Program in Physical Therapy Washington University School of Medicine St. Louis, Missouri

Current Teaching Responsibilities

2022-present	DPT Learner Coach
2021	Lecturer, laboratory assistant, Module 4: Movement and Precision Health (PT 703)
2022 – present	Lecturer, laboratory assistant, Module 5: Prevention, Diagnosis and Management of Movement-Related Problems (PT 710)
2023 – present	Lecturer, laboratory assistant, paper grader, Module 6: Prevention, Diagnosis and Management of Complex Movement-Related Problems (PT 711)

Legacy curriculum

Alternative Settings and Practice Environments (PT 652)

2012 – 2023	Course Master
2010 – 2011	Assistant Course Master
2007 – 2023	Lecturer

Diagnosis & Management d	of Musculoskeletal Conditions in PT I (PT 614)
2003 – 2021	Laboratory Assistant

Diagnosis & Management of Musculoskeletal Conditions in PT II (PT 624) 2003 – 2014 Laboratory Assistant and Paper Grader

Diagnosis & Management of Musculoskeletal Conditions in PT III (PT 638) 2003 – 2022 Lecturer, Laboratory Assistant and Paper Grader

Essential Clinica	Skills in	PT I (PT	603)
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2015 – 2021 Laboratory Assistant

Essential Clinical Skills in PT II (PT 627)

2003 – 2022 Lecturer and Laboratory Assistant

Essential Clinical Skills in PT III (PT 637) 2003 – 2013 Laboratory Assistant

Health, Fitness and Prevention (PT 653) 2009 – 2012 Lecturer

Kinesiology II (PT 613) 2003 – 2021 Laboratory Assistant

Orthopaedic Medicine (PT 623) 2006 – 2015 Paper Grader

Case Integration I (PT 628) 2015 – 2017 Lecturer

Student Advisement/Clinical Instructor

2006 – 2022Case Integration III (including Focus Study) and Diagnosis
and Evidence Analysis (DEA) III, Clinical Education II

2006 – 2013 Case Integration I and II advisor

ADDITIONAL TEACHING RESPONSIBILITIES AT WASHINGTON UNIVERSITY: RHEUMATOLOGY FELLOWS Washington University School of Medicine

St Louis, Missouri

Introduction to physical therapy 2022 Lecturer

POST-PROFESSIONAL CLINICAL DOCTORATE (PPDPT) EDUCATION Program in Physical Therapy Washington University School of Medicine St Louis, Missouri

Diagnosis & Management of Musculoskeletal Conditions Course - Upper Quarter 2010 – 2012 Lecturer

Capstone Project 2012 – 2014 Advisor

DIAGNOSIS AND MANAGEMENT OF MOVEMENT IMPAIRMENTS FELLOWSHIP Program in Physical Therapy Washington University School of Medicine St. Louis, Missouri

Diagnosis and Management of Performing Artists 2012 - 2020 Lecturer

PERFORMING ARTS DEPARTMENT Washington University St. Louis, Missouri

Focus Study Course Sept 12, 2011 Lecturer

ADVISEMENT OF 6TH YEAR YEAR MEDICAL STUDENT Washington University School of Medicine St. Louis, Missouri

2009 Served as advisor to 6th year medical student during his 8 week rotation initiating a research survey on musicians regarding healthcare utilization.

MOVEMENT SYSTEM DIAGNOSIS COURSES:

Upper and Lower Quarters

2003 – present St Louis, cities in the United States of America and Canada

DANCE AND MEDICINE COURSE

Washington University School of Medicine to medical students St Louis, Missouri

Oct 9, 2019 Lecturer

UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES: WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Physical Therapy and Orthopaedic Surgery

July 2004 - present Medical Program for the Performing Artists, Co-Director

Program in Physical Therapy

- 2006 2007 Program Innovation Council member
- 2006 2010 Committee on Academic Evaluation of Students (CAES) member, Washington University Program in Physical Therapy
- 2007 2008 Clinical Practice Advisory Council member
- 2012 2023 Committee on Academic and Professional Evaluation of Students (CAPES) member Spring semesters only
- 2020 present Committee for Curriculum Renewal for Module 7 & 8

THE REHABILITATION INSTITUTE OF ST. LOUIS

- 2001 2006 Aquatics Program
- 2005 Service Excellence Committee

MEDICAL LICENSURE:

1999 Missouri Board of Registration for the Healing Arts Registration No. 118145

SPECIALTY CERTIFICATION:

2009 American Physical Therapy Association (APTA) Credentialed Clinical Instructor

EDITORIAL RESPONSIBILITIES:

- 2010 Present Reviewer for American Academy of Physical Medicine and Rehabilitation Journal
- 2014 Present Reviewer for Medical Problems of Performing Artists Journal and Journal of Dance Medicine and Science
- 2016 Present Editorial Board for Medical Problems of Performing Artists Journal

SCIENTIFIC/PROFESSIONAL ORGANIZATIONS/SOCIETIES:

1996 – 2002	American Physical Therapy Association
2006 – present	American Physical Therapy Association, Orthopaedic Section and Performing Arts Special Interest Group
2006 – present	International Association for Dance Medicine and Science
2013 – present	International Association for Dance Medicine and Science, Publications Committee

- 2010 present Performing Arts Medicine Association
- 2014 2015 American Academy of Orthopedic Manual Physical Therapists

RESEARCH SUPPORT:

2010 - 2012 Principal Investigator Professional Musicians Survey on Healthcare Utilization and Psychosocial Factors Source: Program in Physical Therapy for \$1,500

TRAINEE/MENTEE/SPONSORSHIP RECORD:

PERFORMING ARTS MEDICINE ASSOCIATION (PAMA) and INTERNATIONAL

ASSOCIATE FOR DANCE MEDICINE AND SCIENCE (IADMS) MENTORING PROGRAM

2021 – present Mentor to junior national and international physical therapists related to advancing their career in working with performing artists from patient care (building their practice) to research ideas.

ADVISEMENT OF 6TH YEAR YEAR MEDICAL STUDENT

Washington University School of Medicine

St. Louis, Missouri

2009 Served as advisor to 6th year medical student, Peter Chimenti, during his 8 week rotation initiating a research survey on musicians regarding healthcare utilization.

POST-PROFESSIONAL CLINICAL DOCTORATE (PPDPT) EDUCATION

Program in Physical Therapy

Washington University School of Medicine

St Louis, Missouri Capstone Project

2012 – 2014 Advisor

CLINICAL INSTRUCTOR for CLINICAL DOCTORATE DEGREE **Program in Physical Therapy** Washington University School of Medicine St Louis, Missouri

Most re

ecent clinical ec 2010	Clinical Education III: co-clinical instructor with Sylvia Czuppon – Greg Skelley
2012	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Curtis Sargent
2014	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Katrina Rinne
2016	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Seth Grover
2017	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Samantha King
2018	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Aimee Smith
2019	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Christopher Thaller
2020	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Alexandria Van Zandt
2021	Clinical Education II: co-clinical instructor with Sylvia Czuppon – April McNamara
2022	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Alexandra Huynh
2023	Clinical Education II: co-clinical instructor with Sylvia Czuppon – Elena Kim

Past responsibilities similar to current clinical instruction for students but occurred while employed at The Rehabilitation Institute of St. Louis and BJC Rehabilitation and Fitness.

PRESENTATIONS AND SEMINARS:

Performing arts related topics at professional conferences:

Web-based live interview with Dr. Devyani Hunt Nov 20, 2020 Community of physical therapists and performing artists St Louis, Missouri

April 29, 2020	"Physical therapy and dance" Web-based live interview with Rosanna Baroni and Eva Fasolo Physiotherapists, dance teachers and students in Italy Move Rehab Milan, Italy
Feb 15, 2020	"Evaluation and treatment of the shoulder girdle of aerial artists from a Movement Systems perspective" American Physical Therapy Association Combined Section Meeting Denver, Colorado
Oct 25, 2019	"Hanging assessment and corrective exercises for aerial artists" 29 th International Association for Dance Medicine and Science Annual Conference Montreal, Canada
Oct 25, 2019	"Physical therapy management of a young competitive Irish dancer with ankle pain, instability and metatarsal fracture by correcting her movement impairments" 29 th International Association for Dance Medicine and Science Annual Conference Montreal, Canada
Oct 22, 2019	"Physical therapy management of a young competitive Irish dancer with ankle pain, instability and metatarsal fracture by correcting her movement impairments" Research Seminar Washington University Program in Physical Therapy St Louis, Missouri
Mar 29, 2019	"Evaluation and Treatment of Lower Quarter Injuries in the Young Dancer" 12 th Annual Sports Medicine Update Washington University School of Medicine Department of Orthopedics St Louis, Missouri
Oct 14, 2017	"Rehabilitation of a dancer with an anterior approach total hip arthroplasty: A case report on benefits and pitfalls." 27 th Annual International Association for Dance Medicine and Science Annual Conference Houston, Texas
Jun 10, 2017	"Playing longer and stronger: understanding typical injuries in musicians and how to prevent them" St Louis Music Therapists Association conference St Louis, Missouri
Mar 18-19, 2017	Foot and ankle injuries in dancers – lecture and demonstration European physiotherapists and school teachers

	Busto Arsizio/Milan, Italy
Nov 2, 2016	"Examination and Treatment of a Competitve Figure Skater with Psoaritic Arthritis with Bilateral Hip Pain Status Post Three Arthroscopic Labral Repairs" 9 th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain Singapore
Nov 2, 2016	"Examination and Treatment of an Adolescent Circus Artist with Low Back Pain with Utilization of a Patient Specific Functional Scale to Assist in Returning the Patient to all her circus skills" 9 th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain Singapore
July 10, 2015	"Examination and Treatment of Neck Pain with the Inclusion of Assessing Scapular Movement Impairments in 3 Performing Artists: Circus Artist, Clarinetist and Broadway Musical Theater Performer" 33 rd Annual Performing Arts Medical Association Symposium Snowmass, Colorado
July 18, 2014	"Evaluation of Lower Quarter Injuries in the Dancer" 8 th Annual Sports Medicine Update Washington University School of Medicine Department of Orthopedics St Louis, Missouri
Oct. 19, 2013	"Conservative care of skeletally immature dancers with intra- articular, pre-arthritic hip disorders: a case series" International Association for Dance Medicine and Science Annual Meeting Seattle, Washington
Sept. 20, 2013	Examination and treatment on dancers – lecture and demonstration European physiotherapists Busto Arsizio Choreutic High School Busto/Milan, Italy
Oct. 28, 2012	"Movement System Diagnosis: Motor Control and Learning for Diagnosis" International Association for Dance Medicine and Science Annual Meeting Singapore
July 24, 2011	"Who Provides Healthcare to Orchestral Musicians for Playing- Related Symptoms?" Performing Arts Medicine Association Conference Snowmass, Colorado

Feb. 9, 2011	"Movement Impairment Issues in Performing Artists: Considerations for Evaluation and Treatment of upper and Lower Quarter Injuries" American Physical Therapy Association Combined Section Meeting New Orleans, Louisiana	
Feb. 19, 2010	"Movement System Impairment Examination and Treatment: Dancer with Acetabular Labral Tear" – a platform presentation American Physical Therapy Association Combined Section Meeting San Diego, California	
Oct. 25, 2008	"Measurement of tibiofemoral rotation and the relationship of tibiofemoral rotation to first position turnout" International Association for Dance Medicine and Science Annual Meeting Cleveland, Ohio	
July 2, 2008	"Balance your talent with healthy posture and movement: Lecture and Workshop" ClarinetFest® International Clarinet Conference University of Missouri at Kansas City Kansas City, Missouri	
Sports/orthopedics Physica Nov. 10, 2012	al Therapy: Innovations in the Treatment of Hip and Knee Disorders: Perioperative Care of Patient with THR and other Hip Procedures Washington University Orthopaedic Surgery St. Louis, Missouri	
Feb. 19, 2010	"The Complicated Patient" Co-presentation with Sara Scholtes, PT, PhD, DPT American Physical Therapy Association Combined Section Meeting San Diego, California	
Aquatics Physical Therapy:		
2002 – 2006	Intro to Aquatic Physical Therapy	

The Rehabilitation Institute of St. Louis St Louis, Missouri

BIBLIOGRAPHY:

Original, peer reviewed articles in referred journals

1. Fadl YY, Ellenbogen KA, Grubb RL Jr, **Khoo-Summers L**, Lindsay BD. A Review of Spinal Injuries in Invasive Cardiology: Part 1 – Biomechanics and Pain Generation. *Pacing Clin Electrophysio.* 2007; 30:1012-1019.

- Fadl YY, Ellenbogen KA, Grubb RL Jr, Khoo-Summers L, Lindsay BD. A Review of Spinal Injuries in Invasive Cardiology: Part 2 – Prevention and Treatment. *Pacing Clin Electrophysio.* 2007; 30:1049-1157.
- 3. Melby SJ, Vedantham S, Narra VR, Paletta GA Jr, **Khoo-Summers L**, Driskill MR, Thompson RW. Comprehensive Surgical Management of the Competitive Athlete with Effort Thrombosis of the Subclavian Vein (Paget-Schroetter Syndrome). *Jour Vascular Surgery.* 2008; 47:809-820.
- 4. **Khoo-Summers LC**, Prather H, Hunt DM, Van Dillen LR. Predictors of First Position Turnout in Collegiate Dancers: The Role of Tibiofemoral External Rotation and Hip External Rotation. *Am J Phys Med Rehabil.* 2013; 92:136-142.
- Chimenti, RLP, Van Dillen LR, Prather H, Hunt DM, Chimenti PC, Khoo-Summers, L. Underutilization of Worker's Compensation Insurance among Professional Orchestral Musicians. *Med Probl Perform Art.* 2013; 28:54-60.

Case reports:

- 1. Khoo-Summers L, Bloom NJ. Examination and treatment of a professional ballet dancer with a suspected acetabular labral tear: A case report. *Manual Therapy.* 2015; 20:623-629.
- Chimenti RLP, Van Dillen LR, Khoo-Summers L. Use of a patient specific outcome measure and a movement classification system to guide nonsurgical management of a circus performer with low back pain: A case report. *Jour of Dance Med & Sci.* 2017; 21:185-192.
- 3. Scholtes SA, **Khoo-Summers L**, Damico KJ. Presentation and management of arthrofibrosis of the knee: A case report. *Physiother Theory Pract.* 2017:33:815-824.

Textbook chapters:

- Caldwell CA, Khoo-Summers L. Movement System Syndromes of the Hand and Wrist. In Sahrmann SA and Associates. *Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines.* 1st ed. St Louis, MO: Elsevier; 2011;165-278.
- Caldwell CA, Khoo-Summers L. Movement System Syndromes of the Elbow. In Sahrmann SA and Associates. *Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines*. 1st ed. St Louis, MO: Elsevier; 2011;279-353.
- 3. Karageanes SJ, Donahue AM, **Khoo-Summers L**. Chapter 12: Dance injuries in the upper extremity. In Russell JA (ed.) *Dance Injuries: Reducing Risk and Maximizing Performance*. Champaign, IL: Human Kinetics Publishers, 2024 (anticipated publication date).

Abstracts:

- Gage MJ, Thompson RW, Khoo-Summers L, Majewski TL, Evans TA. Acute, idiopathic swelling in the arm of a female collegiate volleyball player. National Athletic Trainers' Association Annual Meeting and Clinical Symposia. Baltimore, MD; June 19, 2004: 12:40 – 2:50 pm. Abstract: Supplement to Journal of Athletic Training. 2004;39(2):S-78.
- 2. **Khoo-Summers LC**, Hunt DM, Prather H, Van Dillen LR. Measurement of tibiofemoral rotation and the relationship of tibiofemoral rotation to first position turnout. In

Proceedings of the 18th Annual International Association for Dance Medicine and Science 18th Annual Meeting, 2008; October 23-25:p72-73.

- 3. **Khoo-Summers LC**, Hunt DM, Prather H, Van Dillen LR. Hip lateral rotation and first position: to measure in prone or not to measure in prone, that is the question. In *Proceedings of the 18th* Annual *International Association for Dance Medicine and Science 18th Annual Meeting*, 2008; October 23-25:p96-97.
- 4. Prather H, **Khoo-Summers L**, Chimenti RLP, Chimenti P, Hunt DM, Van Dillen LR. Characteristics of ICSOM Members in 1988 Versus 2010: A Descriptive Comparison. *In Proceedings of the 29th Annual Performing Arts Medicine Association Symposium*, 2011; July 21-24:p18-19.
- Chimenti RLP, Khoo-Summers L, Chimenti P, Hunt DM, Prather H, Van Dillen LR. Factors influencing the decision to file for worker's compensation insurance in musicians. In Proceedings of the 29th Annual Performing Arts Medicine Association Symposium, 2011; July 21-24:p50-51.
- Hunt DM, Khoo-Summers L, Chimenti RLP, Chimenti P, Prather H, Van Dillen LR. Worker's compensation and psychosocial factors in professional musicians. *In Proceedings of the 29th Annual Performing Arts Medicine Association Symposium*, 2011; July 21-24:p110.
- 7. **Khoo-Summers L**, Chimenti RLP, Chimenti P, Hunt DM, Prather H, Van Dillen LR. Who provides healthcare to orchestral musicians for playing related symptoms? *In Proceedings of the 29th Annual Performing Arts Medicine Association Symposium*, 2011; July 21-24:p106-107.
- 8. **Khoo-Summers L**, Stephens A, Hunt D, Prather H. Conservative care of skeletally immature dancers with intra-articular, pre-arthritic hip disorders: a case series. *In Proceedings of the 23rd Annual International Association for Dance Medicine and Science 23rd Annual Meeting*, 2013.
- 9. **Khoo-Summers L**. Examination and Treatment of Neck Pain with the Inclusion of Assessing Scapular Movement Impairments in 3 Performing Artists: Circus Artist, Clarinetist and Broadway Musical Theater Performer. *In Proceedings of the 33rd Annual Performing Arts Medicine Association Symposium*, 2015; July 10:p106-107.
- 10. **Khoo-Summers L**. Examination and Treatment of a Competitve Figure Skater with Psoaritic Arthritis with Bilateral Hip Pain Status Post Three Arthroscopic Labral Repairs. *In Proceedings of the 9th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain*, 2016: p.371-372.
- 11. **Khoo-Summers L**. Examination and Treatment of an Adolescent Circus Artist with Low Back Pain with Utilization of a Patient Specific Functional Scale to Assist in Returning the Patient to all her circus skills. *In Proceedings of the 9th Interdisciplinary World Congress on Low Back and Pelvic Girdle Pain*, 2016: p.371.
- 12. Kothe C, **Khoo-Summers L**. Physical therapy management of a competitive dancer with chronic hip pain with femoroacetabular impingement, hip dysplasia, labral tear, and

psoas tendinitis. In Proceedings of the 27th Annual International Association for Dance Medicine and Science Annual Conference, 2017

- 13. Grover S, **Khoo-Summers L**. Injury and symptom prevalence in professional and nonprofessional United States Dancesport dancers: a national survey. *In Proceedings of the* 27th Annual International Association for Dance Medicine and Science Annual Conference, 2017.
- 14. **Khoo-Summers L**. Rehabilitation of a dancer with an anterior approach total hip arthroplasty: A case report on benefits and pitfalls. *In Proceedings of the 27th Annual International Association for Dance Medicine and Science Annual Conference*, 2017: p.166
- 15. Scherb, E, **Khoo-Summers L**. Hanging assessment and corrective exercises for aerial artists. . *In Proceedings of the 29th Annual International Association for Dance Medicine and Science Annual Conference,* 2019: p.101
- 16. **Khoo-Summers, L**. Physical therapy management of a young competitive Irish dancer with ankle pain, instability and metatarsal fracture by correcting her movement impairments. *In Proceedings of the 29th Annual International Association for Dance Medicine and Science Annual Conference*, 2019: p.254
- 17. Scherb E, **Khoo-Summers L**. Evaluation and treatment of the shoulder girdle of aerial artists from a Movement Systems perspective. *In proceedings of American Physical Therapy Association Combined Section Meeting 2020*
- 18. Vagy, J, **Khoo-Summers L**, Scherb E. At the End of your Rope Rehab Solutions for Climbers and Aerialists. Precon Course (accepted but did not present due to lack of participants). *American Physical Therapy Association Combined Section Meeting 2022*