GERASIMOS BASTAS

EDUCATION

1997 - 2002	Brown University Biochemistry, B.Sc. with Honors	Providence, RI
2002 - 2010	Boston University School of Medicine & Division of Graduate Medical Sciences MD/PhD combined-degree program [Doctor of Medicine / Doctor of Philosophy (PhD) of Molecular Medicine]	Boston, MA
POST GRADUA	ATE TRAINING	
2010 - 2014	Hospital of the University of Pennsylvania Department of Physical Medicine & Rehabilitation PM&R Residency Training Program	Philadelphia, PA
2014 - 2015	Vanderbilt University Medical Center Department of Physical Medicine & Rehabilitation Research Fellowship	Nashville, TN
FACULTY APP	OINTMENTS	
09/2014 -	Assistant Professor Department of Physical Medicine & Rehabilitation Vanderbilt University Medical Center	Nashville, TN
FACULTY POS	ITIONS	
2015 -	Director of Limb Loss Rehabilitation Department of Physical Medicine & Rehabilitation Vanderbilt University Medical Center	Nashville, TN
03/2021 -	Staff Physician Department of Physical Medicine & Rehabilitation Tennessee Valley Healthcare System US Department of Veterans Affairs	Nashville, TN Murfreesboro, TN
FUNDED RESE	EARCH	
1999	Undergraduate Teaching and Research Assistantship B Funded opportunity for independent research. Computer modeling and syn bisquartenary inhibitors. (Prof. Kathlyn A. Parker)	
2000	RAB GRANT RECIPIENT BrownFunded opportunity for student-initiated research.A novel approach to immunotherapeutics. (Prof. Kathlyn A. Parker)	n University, Providence, RI
2000	Undergraduate Teaching and Research Assistantship B	rown Univ., Providence, RI

	Funded opportunity for independent research. A novel approach to immunotherapeutics. (Prof. Kathlyn A. Par	ker)
2001 - 2002	ROYCE FELLOWSHIP Funded opportunity for student-initiated research. A novel approach to immunotherapeutics. (Prof. Kathlyn A. Par	Brown University, Providence, RI <i>ker)</i>
2006 - 2007	GRUNEBAUM FELLOWSHIP	BUSM, Boston, MA
	Fellowship from the Karin Grunebaum Cancer Research Founda and two HMS medical students per year, conducting cancer-relate Bogen, MD, PhD)	
2014 - 2015	NINDS Stroke Trials Network (1U10NS086492-01, PI: Michael Froehler, MD, PhD) Role: Research Fellow	VUMC, Nashville, TN
2015 - 2016	Vanderbilt Institute for Clinical and Translational I (VR 14394/UL1 TR000445 from NCATS/NIH) "Objective Assessment Measures for the Clinical Evaluation Walking Performance." Role: Principal Investigator	
2015 - 2017	Vanderbilt Institute for Clinical and Translational I (VR 21073/UL1 TR000445 from NCATS/NIH) "Fall Prevention by Detection of Impending Bed Exit F Role: Principal Investigator	
2015 - 2018	Building Interdisciplinary Research Careers in Wome (5K12HD043483-13, PI: Katherine Hartmann, MD, Ph "Biomechanical Assessment of Gender Differences in I Performance." Role: K12 Career Development Award Trainee	D)
2015 - 2019	Congressionally Directed Medical Research Progra (W81XWH-15-2 from CDMRP/DOD, PI: Michael Go "Ambulatory and Non-Ambulatory Benefits of Lower I without FES, in Clinical and Community Settings." Role: Medical Director for clinical trial site	oldfarb, PhD)
2016 - 2019	National Science Foundation (GARDE/CBET 1605200 from NSF, PI: Karl Zelik, P. "Leveraging Toe Dynamics to Improve Prosthetic Feet Role: Consultant	
2017 - 2020	National Science Foundation (CBET 1705714 from NSF, PI: Karl Zelik, PhD) "Bio-Inspired Ankle-Knee Coupling to Enhance Walkin Amputation." Role: Consultant	VUMC, Nashville, TN ng for Individuals with Transtibial

SCHOLARLY PUBLICATIONS

Peer-Reviewed Journal Articles

[1]	Sompuram SR, Bastas G , Vani K, Bogen SA. Accurate identification of paraprotein antigen targets by epitope reconstruction. <i>Blood. 2008 Jan 1; 111(1):302-8.</i> <i>PMID: 17897933</i>
[2]	Bastas G , Sompuram SR, Pierce B, Vani K, Bogen SA. Bioinformatic requirements for protein database searching using predicted epitopes from disease-associated antibodies. <i>Mol Cell Proteomics. 2008 Feb; 7(2):247-56</i> <i>PMID: 17878398</i>
[3]	Reish A, Bastas G , Popescu A. Newly Diagnosed Lumbar Nerve Root Intradural Mass in the Setting of Chronic Lumbar Radicular Pain Refractory to Conservative Management. <i>Pain Physician: January/February 2014; 17: 18-21.</i> <i>PMID: 25675075</i>
[4]	Dallas J, Block JJ, Bastas G . Femoral Artery Bypass Graft Pseudoaneurysm Rupture in a Transfemoral Amputee: A Case Report. <i>Am J Phys Med Rehabil 2018 Nor;97(11):e104-e106.</i> <i>PMID: 29420314</i>
[5]	Bastas G , Fleck JJ, Peters RA, Zelik KE. IMU-based gait analysis in lower limb prosthesis users: Comparison of step demarcation algorithms. <i>Gait & posture. 2018 May 22;64. 30-37.</i> <i>PMID: 29807270</i>
[6]	Honert EC, Bastas G , Zelik KE. Effect of toe joint stiffness and toe shape on walking biomechanics. <i>Bioinspir Biomim 2018 Oct 10;13(6):066007.</i> <i>PMID: 30187893</i>
[7]	Ekelem A, Bastas G , Durrough CM, Goldfarb M. Variable Geometry Stair Ascent and Descent Controller for a Powered Lower Limb Exoskeleton. J. Med. Devices 12(3), 031009 (Jul 30, 2018).
[8]	Honert EC, Bastas G , Zelik KE. Effect of toe length, foot arch length and toe joint axis on walking biomechanics. <i>Human Movement Science 70 (2020) 102594</i> . <i>PMID: 32217212</i>
[9]	Pita A, Ziogas IA, Ye F, Chen Y, Rauf MA, Matsuoka LK, Kaur N, Whang G, Zielsdorf SM, Bastas G , Izzy M, Alexopoulos. Feasibility of Serial Ultrasound Measurements of the Rectus Femoris Muscle Area to Assess Muscle Loss in Patients Awaiting Liver Transplantation in the Intensive Care Unit <i>Transplant Direct 2020 Oct 20;6(11):e618</i> . <i>PMID: 33134494</i>
[10]	McDonald KA, Teater RH, Cruz JP, Kerr JT, Bastas G , Zelik KE. Adding a toe joint to a prosthesis: walking biomechanics, energetics, and preference of individuals with unilateral below-knee limb loss.

Sci Rep **11,** 1924 (2021). PMID: 33479374

- Bastas G, Dallas J, Miller PB, Kloosterman N, Yannopoulos I.
 Polypharmacy, Dosing Trends and Drug-Drug Interaction Patterns Following High-Level Limb Amputation Surgery.
 Am J Phys Med Rehabil 2021 Nov; 100:1087–1092. PMID: 33538486
- Huang YJ, Assi PE, Drolet BC, Al Kassis S, Bastas G, Chaker S, Manzanera Esteve IV, Perdikis G, Thayer WP.
 A Systematic Review and Meta-Analysis on the Incidence of Patients with Lower-Limb Amputations Who Developed Symptomatic Neuromata in the Residual Limb.
 Ann Plast Surg. 2022 May; 88(5): 574-580.
 PMID: 34270470

Invited Book Chapters

[1]	Bastas G. Lower limb amputations.
	In: Frontera WR, Silver JK, Rizzo Jr T, editors. Essentials of Physical Medicine and Rehabilitation (4th edition), Elsevier, Philadelphia, 2018.
[2]	Gao C, Bastas G, Jain N. Rehabilitation: Gait, Amputations, Prostheses, Orthoses and Neurologic Injury. <i>In: Miller's Review of Orthopaedics (8th edition), Chapter 10, Elsevier, Philadelphia 2019</i>
Poster	
Presentations	Reish AG, Bastas G , Vasudevan JM.
[1]	"Acute Low Back Pain with Debilitating Nocturnal Symptoms As Single Presentation of Rapidly Invasive Lymphoma: A Case Report." AAPM&R Annual Assembly, 2013, Washington, DC
	Bastas G.
[2]	"A Proposed Transfemoral Socket Medial Wall Modification for Enduring Comfort, Fit
	and Function: a Case Study." AAPM&R Annual Assembly, 2014, San Diego, CA
[3]	Hong T, Bastas G.
LJ	"Pelvic Acceleration as an Objective Means of Quantifying Gait Asymmetry." GCMAS Annual Conference, 2016, Memphis, TN -(podium presentation)-
	Bastas G, Hong T.
[4]	"Assessing the Utility of Pelvic Accelerometry Tracking for the Clinical Evaluation of Lower Limb Amputee Walking Performance." GCMAS Annual Conference, 2016, Memphis, TN
	Bastas G.
[5]	"Assessing the Utility of Objective Pelvic Motion Tracking for the Clinical Evaluation of Lower Limb Amputee Walking Performance." AAP Annual Meeting, 2016, Sacramento, CA
[6]	Bastas G.
	"Assessing for Gender Differences in the Walking Patterns of Transfemoral Amputees by
	Pelvic Accelerometry Tracking." BIRCWH Annual Meeting, 2016, Bethesda, MD

[7]	Bastas G. "Pelvic Accelerometry for Tracking of Gait Spatio-Temporal Parameters and Inter-Limb Asymmetries in Individuals with Lower Limb Loss." AAP Annual Meeting, 2017, Las Vegas, NV
[8]	Welch SA, Bastas G . "Missed Sciatic Neuroma Affecting Prosthesis Use in a Patient with Hip Disarticulation Amputation." AAP Annual Meeting, 2017, Las Vegas, NV
[9]	Honert E, Bastas G , Zelik KE. "Quantifying the Effects of Toe and Ankle Joint Stiffness, and Their Interplay, on Walking Biomechanics Using an Adjustable Prosthetic Foot." ASB Annual Conference, 2017, Boulder, CO
[10]	Honert E, Bastas G , Zelik KE. "Isolating Effects of Toe and Foot Length on Bipedal Walking." ASB Annual Conference, 2018, Rochester, MN
[11]	Teater HT, McDonald AK, Cook SO, Bastas G , Goldfarb M, Zelik KE. "Addition of a Passive Toe Joint: Considerations for Passive and Powered Ankle-Foot Prosthesis Design." ISB/ASB Annual Conference, 2019, Calgary, Canada
[12]	McDonald AK, Teater HT, Cook SO, Bastas G , Zelik KE. "The Biomechanical and Met-toe-bolic Effects of Walking on a Passive Prosthetic Foot with an Added Toe Joint." ISB/ASB Annual Conference, 2019, Calgary, Canada

PROFESSIONAL ACTIVITIES

American Congress of Rehabilitation Medicine

2016 - 2019Inaugural Chair of the Limb Care Networking Group (LCNG)2019 -LCNG Executive Committee Member-At-Large

Intramural

- 2009 2010 Boston University School of Medicine, Physical Medicine & Rehabilitation Student Interest Group (Founder and Chairman)
- 2013 2014 University of Pennsylvania Physical Medicine & Rehabilitation Residency Training Program Resident Recruitment Committee.
- 2015 Vanderbilt Physical Medicine & Rehabilitation Resident Recruitment Committee.
 2018 Falls Committee Stallworth Rehabilitation Hospital
 - 2021 Vanderbilt University Summer Research Program (Reviewer)
 Reviewer of multiple applications submitted jointly by Vanderbilt University
 undergraduate students and faculty for sponsored summer session research.

Extramural

2014	Grant reviewer for the DoD USA Medical Research and Materiel Command
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[1]	Cardiovascular and Pulmonary Adaptations Following Amputation Surgery. International Society for Prosthetics & Orthotics (Webinar) (02/26/2021)
[2]	How Limb Loss Affects Heart and Lung Function. International Society for Prosthetics & Orthotics (ISPO) Pacific Rim Conference Oahu, HI (6/7/2022)
[3]	Biomedical Ethics Considerations Stemming from Limb Loss/Difference Care and Prosthetic Enablement.
	International Society for Prosthetics & Orthotics (ISPO) Pacific Rim Conference Oahu, HI $(6/7/2022)$

NATIONAL LECTURES

[1]	Medical Considerations for Prosthetic Candidacy, Enduring Functional Enablement and Coordination of Care. ACRM Annual Conference , 2017, Atlanta, GA
[2]	Distinguishing Prosthetic Performance and Enablement in Clinical Care and Research: Challenges and Directions. ACRM Annual Conference , 2017, Atlanta, GA (Expert Panel Participant)
[3]	Medical Care of the Limb Restoration Patient: Cardiovascular Changes and Adaptations. ACRM Annual Conference, 2018, Dallas, TX
[4]	Creating Real World Impact: Becoming Deliberate About Interdisciplinary Professional Identity Training. ACRM Annual Conference, 2018, Dallas, TX
[5]	Building a Collaborative Care Environment (A closer look at the multi-disciplinary approach to amputee care). (Invited panelist) HANGER LIVE Annual National Conference, 2020, Nashville, TN
[6]	Physiology of Limb Loss. ACRM Annual Conference, 2020, Atlanta, GA (Instructional Course: Innovations in Limb Loss and Difference Rehabilitation)
[7]	How Limb Loss Affects Heart and Lung Function. ACRM Annual Conference, 2021, (Virtual) (Instructional Course 7: Innovations in Limb Loss and Difference Rehabilitation)
[8]	How Limb Loss Affects Heart and Lung Function. Veteran Affairs Amputation Grand Rounds / Skills Training (Virtual live and reposited talk for the national Veteran Affairs Healthcare System)(12/20/2022)

LOCAL / REGIONAL LECTURES

[1] Objective Assessment of Lower Limb Amputee Walking Performance.
 Physical Medicine & Rehabilitation Grand Rounds, Vanderbilt University Medical

Center Nashville, TN (5/5/2016)

[2]	Intentionality and Professionalism at the Limits of Knowledge and of Knowing. Ethics Conference, Center for Biomedical Ethics and Society, Vanderbilt University Medical Center Nashville, TN (5/16/2016)
[3]	The PM&R Resident's Guide to: Rehabilitation Emergencies. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (7/1/2016)
[4]	The PM&R Resident's/Attending's Guide to: Handoff of Care / Sign-out. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (7/8/2016)
[5]	The PM&R Resident's Guide to: Journal Club. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (7/20/2016)
[6]	A functional anatomical review and biomechanical principles relating to posture and bipedal locomotion. Vanderbilt University Dpt. of Mechanical Engineering Nashville, TN (5/23/2017)
[7]	Medical and Functional Considerations Surrounding Limb Loss and Limb Restoration Rehabilitation. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (9/7/2017)
[8]	Introduction to Gait. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (10/19/2017)
[9]	Biomedical Ethics Considerations Stemming from Limb Loss/Difference Care and Prosthetic Enablement. Ethics Grand Rounds, UT Southwestern Medical Center Dallas, TX (4/10/2018)
[10]	 Biomedical Ethics Considerations Stemming from Limb Loss/Difference care and Prosthetic Enablement. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/26/2018)
[11]	Clinical Assessment of Gait. PT/OT Provider In-Service, Vanderbilt University Medical Center Nashville, TN (7/17/2018)
[12]	Limb Loss/Prosthetic Enablement Rehabilitation: Medical and Functional Considerations. PT/OT Provider In-Service, Vanderbilt University Medical Center

Nashville, TN (8/7/2018)

[13]	Prosthetic Enablement Rehabilitation: Physiologic Reserve / Work Capacity. PT/OT Provider In-Service, Vanderbilt University Medical Center Nashville, TN (9/11/2018)
[14]	Prosthetic Rehabilitation: Impairments and Therapy Goal Planning. PT/OT Provider In-Service, Vanderbilt University Medical Center Nashville, TN (9/24/2018)
[15]	Medical Considerations for Prosthetic Candidacy, Enduring Functional Enablement and Coordination of Care. Tennessee Society of O&P (TSOP), 2018 Meeting Memphis, TN (10/12/2018)
[16]	Medical Care of the Limb Restoration Patient: Cardiovascular and Pulmonary Adaptations Following Major Limb Loss. CREATE (Center for Rehabilitation Engineering and Assistive Technology) Vanderbilt University Dpt. Of Mechanical Engineering Nashville, TN (10/25/2018)
[17]	Cardiovascular and Pulmonary Adaptations Following Major Limb Loss. Vascular Surgery Conference, Vanderbilt University Medical Center Nashville, TN (10/25/2018)
[18]	 When the Body is "Other" (Ethical Concerns with Serious Illness, Injury and Transformation). (-Panelist-). Ethics Grand Rounds, Center for Biomedical Ethics and Society, Vanderbilt University Medical Center Nashville, TN (11/6/2018)
[19]	Prosthetic Device Composition and Prescription. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (1/10/19)
[20]	Prosthetic Gait. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (1/10/19)
[21]	Gait. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (1/10/19)
[22]	Peri-operative Amputation Management. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (1/17/19)
[23]	Limb Loss/Difference Epidemiology and Surgical Considerations. PM&R Residency Didactics, Vanderbilt University Medical Center

Nashville, TN (1/17/19)

[24]	Medical Care of the Patient with Limb Loss/Difference: Cardiovascular and Pulmonary
	Adaptations, Pharmacologic Considerations, and Work Capacity.
	Internal Medicine Grand Rounds, Vanderbilt University Medical Center
	Nashville, TN (3/6/2019)

- [25] Ethical Challenges in the Care of the Limb Loss/Difference Patient.
 Ethics Conference, Center for Biomedical Ethics and Society, Vanderbilt University Medical Center Nashville, TN (3/18/2019)
- [26] Medical Care of the Patient with Limb Loss/Difference: Cardiovascular and Pulmonary Adaptations, Pharmacologic Considerations, and Work Capacity.
 Physical Medicine & Rehabilitation Grand Rounds, Vanderbilt University Medical Center Nashville, TN (4/11/2019)
- [27] Setting Up Patients for Success: Overall Functional Enablement and Coordination of Care. (-Keynote Speaker-).
 Tennessee Society of O&P (TSOP), 2019 Meeting Nashville, TN (5/3/2019)
- Introduction to Orthotics.
 PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/9/19)
- [29] Setting Up Patients for Success: Overall Functional Enablement and Coordination of Care.
 Kenney Orthopedics
 Lexington, KY (6/21/2019)
- [30] Setting Up Patients for Success: Overall Functional Enablement and Coordination of Care.
 PrimeFare East Regional Scientific Symposium, 2019 Meeting Nashville, TN (7/11/2019)
- [31] Ethical Considerations Surrounding Limb Loss/Difference Medical Decision Making, and Professional Conduct Surrounding O&P Care.
 PrimeFare East Regional Scientific Symposium, 2019 Meeting Nashville, TN (7/11/2019)
- [32] Setting Up Patients for Success: Overall Functional Enablement and Coordination of Care.
 Belmont University (Doctoral Program in Physical Therapy Didactics) Nashville, TN (10/10/2019)
- [33] Prosthetic Rehabilitation: Impairments and Therapy Goal Planning.
 Belmont University (Doctoral Program in Physical Therapy Didactics) Nashville, TN (10/10/2019)
- [34] Cardiovascular and Pulmonary Adaptations, and Specialized Pharmacologic

	Considerations, Following Limb Amputation. Cardiology Grand Rounds, Vanderbilt University Medical Center Nashville, TN (11/13/2019)
[35]	Cardiovascular and Pulmonary Adaptations, and Specialized Pharmacologic Considerations, Following Limb Amputation. Physical Medicine & Rehabilitation Grand Rounds, Jefferson University Philadelphia, PA (2/12/2020)
[36]	Introduction to Gait. Vanderbilt University Dpt. Of Mechanical Engineering (Barc Lab) Nashville, TN (3/13/2020)
[37]	THE OUTPATIENT PM&R P&O ENCOUNTER: Medical Considerations for Prosthetic Candidacy, Enduring Functional Enablement and Coordination of Care PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/6/20)
[38]	Cardiopulmonary Adaptations, Pharmacokinetic Considerations, and Phantom Limb Pain Control, Following Limb Amputation. Anesthesiology Grand Rounds, Vanderbilt University Medical Center Nashville, TN (5/8/2020)
[39]	Setting Up Patients for Success: Overall Functional Enablement and Coordination of Care. Star PT (annual CME activity for PT/OT providers in 70 therapy locations) Murfreesboro, TN (1/9/2021)
[40]	Cardiovascular and Pulmonary Adaptations, Following Amputation Surgery. PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (1/13/2021)
[41]	Cardiovascular and Pulmonary Adaptations, Following Amputation Surgery. PM&R Residency Program Didactics, Michigan State University East Lansing, MI (2/22/2021)
[42]	Phantom Limb Pain Following Amputation Surgery. PM&R Residency Program Didactics, Michigan State University East Lansing, MI (2/22/2021)
[43]	Pharmacologic Considerations Following Limb Amputation. PM&R Residency Program Didactics, Michigan State University East Lansing, MI (2/22/2021)
[44]	Biomedical Ethics Considerations Stemming from Limb Loss/Difference and Prosthetic Enablement. PM&R Residency Program Didactics, Michigan State University East Lansing, MI (2/22/2021)
[45]	Cardiovascular and Pulmonary Adaptations Following Amputation Surgery. PM&R Residency Program Didactics, NYMC-Metropolitan HH

New York, NY (4/1/2021)

[46]	Epidemiology of Limb Loss and Terms. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/2/2021)
[47]	Amputation Surgery. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/13/2021)
[48]	Phantom Limb Pain Following Amputation Surgery. PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (4/14/2021)
[49]	Pharmacologic Considerations Following Amputation Surgery. PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (4/14/2021)
[50]	Adjustment to Disability. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/16/2021)
[51]	Post-Amputation Patient Education. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/20/2021)
[52]	Limb Loss Physiology. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/23/2021)
[53]	Pharmacological Considerations Following Limb Amputation. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/27/2021)
[54]	Phantom Limb Pain Following Limb Amputation. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/28/2021)
[55]	Prosthetic Device Composition and Prescription. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/4/2021)
[56]	Gait (Typical, Able-Bodied). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/7/2021)
[57]	How Limb Loss Affects Heart and Lung Function. New York State Chapter of American Academy of Orthotists and Prosthetists, NY NYSAAOP 2021 Online Conference (5/14/2021)

[58]	Introduction to Orthotics. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/21/2021)
[59]	Post-amputation Pain Syndromes. Tennessee Society of Orthotists and Prosthetists, TN TSOP 2021 Online Conference (5/21/2021)
[60]	Pediatric Limb Loss/Difference. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/25/2021)
[61]	Post-amputation Pain Syndromes. PM&R Residency Program Didactics, NYMC-Metropolitan HH New York, NY (6/10/2021)
[62]	Post-amputation Pain Syndromes. Kentucky Orthotists and Prosthetics Association, KY KOPA 2021 Online Conference (6/11/2021)
[63]	Pharmacological Considerations Following Limb Amputation. PM&R Residency Program Didactics, NYMC-Metropolitan HH New York, NY (6/17/2021)
[64]	How Limb Loss Affects Heart and Lung Function. Texas Society of Orthotic and Prosthetic Professionals, TX TXSOP 2021 Online Conference (6/25/2021)
[65]	Biomedical Ethics Considerations Stemming from Limb Loss/Difference Care and Prosthetic Enablement. Alabama Prosthetics and Orthotics Association, AL APOA 2021 Online Conference (8/21/2021)
[66]	Biomedical Ethics Considerations Stemming from Limb Loss/Difference Care and Prosthetic Enablement. PM&R Residency Program Didactics, NYMC-Metropolitan HH New York, NY (10/7/2021)
[67]	 Biomedical Ethics Considerations Stemming from Limb Loss/Difference Care and Prosthetic Enablement. North Carolina Chapter of the American Academy or Orthotists & Prosthetist, NC South Carolina Chapter of the American Academy or Orthotists & Prosthetist, SC NCAAOP 2021 Online Conference (10/8/2021)
[68]	Physiology of Limb Loss. New Jersey Chapter of the American Academy or Orthotists & Prosthetist, NJ NJAAOP 2021 Annual Meeting, Atlantic City, NJ (11/4/2021)
[69]	How Limb Loss Affects Heart and Lung Function. HANGER Clinic Balanced Diabetic Amputee Online Community HANGER Clinic Online Community Education Outreach (1/3/2022)

[70-72]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	 (Parts 1-3; 3 hrs encompassing: terms, basic device composition, causes, epidemiology, decision to amputate, operative considerations, post-amputation pain syndromes, limb loss physiology and pharmacologic considerations, pre-prosthetic education, adjustment to disability, prosthetic candidacy evaluation). PM&R Residency Program Didactics, Michigan State University East Lansing, MI (2/28/2022)
[73]	Trialing Different Microprocessor-Controlled Knee (and other) Components: Patient Experience and Clinical Considerations. CREATE (Center for Rehabilitation Engineering and Assistive Technology) Vanderbilt University Dpt. Of Mechanical Engineering Nashville, TN (4/1/2022)
[74]	 Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 1: terms, basic device composition, causes, epidemiology, decision to amputate, operative considerations). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/5/2022)
[75]	 Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 1: terms, basic device composition, causes, epidemiology, decision to amputate, operative considerations). PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (4/6/2022)
[76]	Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 2 : post-amputation pain syndromes, limb loss physiology and pharmacologic considerations). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/7/2022)
[77]	 Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 3: pre-prosthetic education, adjustment to disability, prosthetic candidacy evaluation). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/12/2022)
[78]	Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 2 : post-amputation phantom limb syndrome, limb loss physiology and pharmacologic considerations). PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (4/13/2022)
[79]	 Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 3: pre-prosthetic education, adjustment to disability, prosthetic candidacy evaluation). PM&R Residency Program Didactics, Walter Reed National Military Medical Center Bethesda, MD (4/20/2022)

[80]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 4: prosthetic prescription). PM&R Residency Program Didactics, Walter Reed National Military Medical Center
	Bethesda, MD (4/27/2022)
[81]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 4 : prosthetic prescription). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/5/2022)
[82]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 5: post-amputation pain syndromes, wound care, gait). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/26/2022)
[83]	Introduction to Orthotics. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (5/31/2022)
[84]	How Limb Loss Affects Heart and Lung Function. PM&R Residency Program Didactics, Eastern Virginia Medical School Norfolk, VA (12/29/2022)
[85]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 1: terms, basic device composition, causes, epidemiology, decision to amputate, operative considerations). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (3/30/2023)
[86]	Limb Loss/Difference and Prosthetic Enablement Curriculum
[00]	(Part 1: terms, basic device composition, causes, epidemiology, decision to amputate, operative considerations). PM&R Residency Didactics, Vanderbilt University Medical Center
	Nashville, TN (3/30/2023)
[87]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 2 : post-amputation pain syndromes, limb loss physiology and pharmacologic considerations).
	PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (3/30/2023)
[88]	Limb Loss/Difference and Prosthetic Enablement Curriculum
	(Part 3 : pre-prosthetic education, adjustment to disability, prosthetic candidacy evaluation).
	PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/4/2023)
[89]	Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 4 : prosthetic prescription).

	PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/4/2023)
[90]	Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 5: post-amputation pain syndromes, wound care, gait). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/6/2023)
[91]	Limb Loss/Difference and Prosthetic Enablement Curriculum (Part 6 : prosthetic gait). PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/6/2023)
[92]	Introduction to Orthotics. PM&R Residency Didactics, Vanderbilt University Medical Center Nashville, TN (4/11/2023)
[93]	How Limb Loss Affects Heart and Lung Function. PM&R Residency Grand Rounds, NYMC-Metropolitan HH New York, NY (5/31/2023)

COURSE DIRECTORSHIPS, MODERATOR AND OTHER TEACHING ROLES

[1]	Single-Day Anatomy (Cadaver) Lab (Biomechanics) Course
	Created and led single-day anatomy course in the cadaver lab for Vanderbilt University
	Mechanical Engineering Dpt graduate (doctoral candidates) students. I gave an anatomy
	review presentation before lab, and then led discussion through the cadaver lab.
	Vanderbilt University Dpt. Of Mechanical Engineering/Vanderbilt University
	School of Medicine
	Nashville, TN (5/23/2017)

- [2] VUMC Therapy Services Course
 Series of talks developed for (inpatient/outpatient therapy services providers at Vanderbilt University Hospital, Vanderbilt Orthopaedic Institute and Children's Hospitals) PT/OT staff education on the medical considerations, altered physiology and therapy needs for persons following limb amputation surgery.
 Vanderbilt University Medical Center Nashville, TN (07/2018 – 09/2018)
- [3] Orthotics Course Director
 Created and lead the annual PM&R Residency Orthotics Course, comprised of a series of talks and coordination with local orthotists for resident workshop component.
 PM&R Residency, Vanderbilt University Medical Center
 Nashville, TN
- [4] Prosthetics Course Director
 Created and lead the annual PM&R Residency Prosthetics Course, comprised of a series of talks and coordination with local prosthetists for resident workshop component.
 PM&R Residency, Vanderbilt University Medical Center
 Nashville, TN

2014 - 2015	Expert advisor and research supervisor for a group of 3 senior biomedical engineering students undertaking their senior thesis design project. Department of Mechanical Engineering, Vanderbilt University
2015	Thesis Committee member for Daniel Bennett (PhD candidate) Thesis title: "Design and Assessment of a Self-Contained Upper Extremity Prosthetic System."
	Department of Mechanical Engineering, Vanderbilt University
2015	Research supervisor for VUSM medical Student (Tracey Hong)
2015 - 2018	Research supervisor for VU undergraduate in Mechanical Engineering (Joshua Fleck)
2017	Thesis Committee member for Nasser Alshammary (PhD candidate) Thesis title: "Transhumeral Prosthetic System: Control and Assessment." Department of Mechanical Engineering, Vanderbilt University
2017 - 2020	Research supervisor for VUSM medical Student (Jonathan Dallas)
2018	Thesis Committee member for Andrew Ekelem (PhD candidate) Thesis title: "Control Methods for Improving Mobility for Persons with Lower Limb Paralysis."
	Department of Mechanical Engineering, Vanderbilt University
2018	Thesis Committee member for Harrison Bartlett (PhD candidate) Thesis title: "Design, Control, and Assessment of a Semi-Powered Ankle Prosthesis." Department of Mechanical Engineering, Vanderbilt University
2019	Thesis Committee member for Eric Honert (PhD candidate) Thesis title: "Ankle and Foot Biomechanics during Human Walking: Powerful Insights on Multiarticular Muscles, Soft Tissues, and Toe Joint Dynamics." Department of Mechanical Engineering, Vanderbilt University
2019	Thesis Committee member for Benjamin Gasser (PhD candidate) Thesis title: "Design of an Upper-Limb Exoskeleton for Functional Assistance of Bi- Manual Activities of Daily Living." Department of Mechanical Engineering, Vanderbilt University
2020	Thesis Committee member for Erik Paul Lamers (PhD candidate) Thesis title: "Design, Development and Evaluation of Quasi-Passive Wearable Assistive Devices: From Ankle Prosthetics to Low Back Exosuits." Department of Mechanical Engineering, Vanderbilt University
2021 – 2022	Thesis Committee member for Maura E. Eveld (PhD candidate) Thesis title: "The Biomechanics of Stumble Recovery: Experimental Insights for the Design and Implementation of Powered Lower-limb Wearable Assistive Device Interventions to Mitigate Falls." Department of Mechanical Engineering, Vanderbilt University
2021 - 2022	Thesis Committee member for Shane King (PhD candidate) Thesis title: "Identification, development, and assessment of prosthesis behaviors to improve the stumble recovery of transfemoral prosthesis users." Department of Mechanical Engineering, Vanderbilt University

Academic Awards		
2002	ACADEMIC HONORS Sc.B. Biochemistry with Academic Honors.	Brown University, Providence, RI
2003	RESEARCH AWARD	NEHMDS, Boston, MA
	For original research poster presentation at the 4 th An Hellenic Medical and Dental Society.	nnual Research Symposium of the New England
2003	THE NATIONAL DEAN'S LIST 26th Annual Edition of the National Dean's List hone	oring the top 0.5% of US college graduates.
2010	THE WEIN STUDENT RESEARCH AV Awarded to one graduating BUSM student for outstand	, , , ,
Teaching Awards		
2014	OUTSTANDING RESIDENT EDUCATOR AWARD UPenn, Philadelphia, PA Awarded to one graduating PM&R resident for demonstration of excellence in the education of PM&R residents.	
Professional Awards		
2015 - 2016	In Appreciation of Service (American Cong	ress of Rehabilitation Medicine)
2016 - 2017	for serving as Limb Restoration Rehabilitation Group Chair (Chicago, IL 2016) In Appreciation of Service (American Congress of Rehabilitation Medicine) for serving as Limb Restoration Rehabilitation Group Chair (Atlanta, GA 2017)	
Clinical Awards		
2020	EXCELLENCE in Patient Experience In recognition of outstanding performance and exception honors clinicians who have reached the 90 th percentile na	
2022	EXCELLENCE in Patient Experience	VUMC, Nashville, TN
	In recognition of outstanding performance and exception honors clinicians who have reached the 90 th percentile na	
Meritorious Scholarships		
1997 - 2002	Metropolitan Diocese of Zakynthos	Zakynthos, Greece
1997 - 2002	A.G. Leventis Foundation Scholarship	Athens, Greece
1997 – 2002 1997	Metropolitan Diocese of Boston Hellenic Times Scholarship Fund	Boston, MA New York, NY
1997 1998 – 2001	Bodossaki Foundation	Athens, Greece
2003	Bodossaki Foundation	Athens, Greece
1000 2000	Vardinoviannis Foundation	Athens Greece

1997	Flehend Thines Scholarship Fund	INCW IOIK, INI
1998 - 2001	Bodossaki Foundation	Athens, Greece
2003	Bodossaki Foundation	Athens, Greece
1998 - 2000	Vardinoyiannis Foundation	Athens, Greece
2002 - 2003	Mehos Scholarship (BUSM)	Boston, MA
2003 - 2004	Eleni Gatzoyiannis Scholarship (BUSM)	Boston, MA
2003	Hygeia Scholarship Award from the NEHMDS	Boston, MA
2004	Bakes Family Foundation	Greenwich, CT

JOURNAL REVIEWER

Prosthetics and Orthotics International
Journal of the American Academy of Orthopedic Surgeons
Systematic Reviews
Archives of Physical Medicine & Rehabilitation
Archives of Rehabilitation Research and Clinical Translation
Sensors

CERTIFICATIONS

2015 - 2025	American Board of Physical Medicine & Rehabilitation Diplomate Rochester	:, MN
	Board Certified in PM&R (11457)	

LICENSURE

2010 - 2014	Pennsylvania Medical License (MT197893)
05/2014 -	Tennessee Medical License (MD51292) (Active)

MEDIA INTERVIEWS

[1]	Innovations in Lower Limb Prosthetics Bolster Quality of Life	
	DISCOVER – Breakthroughs in medical science and patient care from VUMC	
	(https://discover.vumc.org/2018/12/innovations-in-limb-restoration-and-prosthetics- bolster-quality-of-life/)(12/11/2018)	
[2]	Dr. Gerasimos Bastas, MD, PhD - Talks Physical Medicine & Rehab The Prosthetic Paradigm Podcast (Invited interview - part 1) (https://prostheticparadigm.libsyn.com/) (2/18/19)	
[3]	Dr. Gerasimos Bastas, MD, PhD - Talks Physical Medicine & Rehab The Prosthetic Paradigm Podcast (Invited interview - part 2) (https://prostheticparadigm.libsyn.com/) (3/18/19)	
[4]	Polypharmacy in High-level Limb Amputations	
[.]	DISCOVER – Breakthroughs in medical science and patient care from VUMC	
	(https://discover.vumc.org/2021/08/polypharmacy-in-high-level-limb- amputations/)(8/18/2021)	
[5]	From Above Knee Amputee to Physician with Dr. Bastas	
	Beyond the Disability Podcast (by Dr. Janice Brown - invited interview)	
	(https://www.listennotes.com/podcasts/beyond-the/from-above-knee-amputee- to-JEUpHsXMLgO/) (11/4/21)	

ONLINE FEATURES AND OTHER ONLINE SCHOLARLY PRODUCTS

	component design. Content uploaded to Thingiverse and made a	available publicly
	for 3D printing:	
	https://www.thingiverse.com/thing:2740390	
	https://www.thingiverse.com/thing:2740401	
	https://www.thingiverse.com/thing:2740412	
	https://www.thingiverse.com/thing:2740380	
2018	Created 3D anatomical models for educational purposes and pro	sthetic
	component design. Content uploaded to Thingiverse and made	
	for 3D printing:	н на президения и на президения
	https://www.thingiverse.com/thing:3290484	
	https://www.thingiverse.com/thing:3290505	
	https://www.thingiverse.com/thing:3233555	
	https://www.thingiverse.com/thing:3233550	
	https://www.thingiverse.com/thing:3231858	
	https://www.thingiverse.com/thing:3231852	
2018	Ethics Grand Rounds (UT Southwestern Medical Center):	Dallas, TX
	Bastas G: Biomedical Ethics Considerations Stemming from Limb Loss/Differen	ce Care and Prosthetic
	Enablement. Talk video-recorded and freely available online. (4/10/2018)	
	(https://utswmed-ir.tdl.org/handle/2152.5/5069)	
2020	Anesthesiology Grand Rounds (VUMC)	Nashville, TN
2020		
	Cardiopulmonary Adaptations, Pharmacokinetic Considerations, and I Control, Following Limb Amputation.	Phantom Limb Pain
	(https://www.youtube.com/watch?v=aaLKRpFEcQw)	

LANGUAGES

Greek – Native Speaker

English – Proficiency Diploma from Cambridge University (Cambridge, UK)

Japanese – Advanced Japanese (3rd year instruction)

EXTRACURRICULAR ACTIVITIES & VOLUNTEER WORK

- 2021- Application Review Committee Member for the **Jordan Thomas Foundation** (a Brentwood, TN-based national non-profit organization that offers financial assistance for prosthetic enablement to children with congenital or acquired limb loss).
- 2022 Served as Panel Judge for Vanderbilt University's 2022 SCNO Case Competition (Vanderbilt Students Consulting for Nonprofit Organizations – held 2/20/22) involving 150 students organized in 30 teams, in support of discovery of actionable next growth/development steps for the Jordan Thomas Foundation (a Brentwood, TN-based national non-profit organization that offers financial assistance for prosthetic enablement to children with congenital or acquired limb loss).

PROFESSIONAL ORGANIZATIONS

Inaugural Chair of the Limb Restoration Rehabilitation Group (now the Limb Care Networking Group) for the American Congress of Rehabilitation Medicine (ACRM)

Member of the American Academy of Physical Medicine and Rehabilitation (AAPM&R) Member of the Association of Academic Physiatrists (AAP) Member of the American Academy of Orthotists and Prosthetists (AAOP) Member of the International Society of Physical Medicine & Rehabilitation (ISPMR) Member of the International Society for Prosthetics and Orthotics (ISPO)