

# Curriculum Vitae

**JULIE J. KEYSOR, PT, PHD**  
School of Rehabilitation Sciences  
MGH Institute of Health Professions  
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## **Education**

- 1996-2000      PhD, Health Behavior and Health Education  
School of Public Health, University of North Carolina at Chapel Hill,  
Chapel Hill, NC  
Dissertation: Self-Management, Physical Disability and Emotions in  
Rheumatoid Arthritis
- 1993-1995      MS, Human Movement Science  
University of North Carolina at Chapel Hill, Chapel Hill, NC  
Thesis: The Experience of Knee Arthritis in Athletic Younger Adults: A  
Heuristic Study
- 1984-1988      BS, Physical Therapy, 1988  
University of Vermont, Burlington, VT  
Department of Physical Therapy

## **Postdoctoral Training**

- 2001            NIH/NIDRR, Rehabilitation Health Services Research Program at Sargent  
College of Health and Rehabilitation Sciences, January 2001-July 2001  
Mentor: Dr. Alan Jette
- 2000            NIH/SNRA Multidisciplinary Training Grant Post-Doctoral Fellowship,  
Boston University Gerontology Center, September 2000-December 2000  
Mentor: Dr. Alan Jette

## **Academic Appointments**

- 2018- pres      Professor, Department of Physical Therapy, MGH Institute of Health  
Professions, Boston, MA
- 2013-2017      Associate Professor, Boston University School of Medicine, Boston, MA

- 2007- 2017 Associate Professor, Department of Physical Therapy and Athletic Training, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA (Tenure, August 2007)
- 2001-2007 Assistant Professor, Department of Physical Therapy and Athletic Training, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA
- 1997-1998 Project Director, Thurston Arthritis Research Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 1995-1996 Research Assistant, University of North Carolina at Chapel Hill, Chapel Hill, NC

### **Clinical Appointments**

- 1995-2000 Physical Therapist, Interim Home Health Care, Durham, NC; Interim supervisory roles throughout clinical appointments; Per diem skilled nursing home settings
- 1994-1995 Physical Therapist, Neurological Clinical Expert, Duke Medical Center, Durham, NC
- 1992-1994 Physical Therapist, Newport Hospital, Newport, RI
- 1988-1992 Physical Therapist, Duke Medical Center, Durham, NC

### **Administrative Appointments**

- 2022-pres IHP Research Administration Office, MGH Institute of Health Professions, Boston, MA (50% effort)
- 2018 – 2019 Chair, Department of Physical Therapy, School of Health and Rehabilitation Sciences, MGH Institute of Health Professions, Boston, MA
- 2011-2017 Director, Center for Enhancing Activity and Participation among Persons with Arthritis (ENACT). College of Health and Rehabilitation Sciences, Boston University, Boston, MA
- 2007- 2010 Program Administrator, Doctor of Physical Therapy Program, College of Health and Rehabilitation Sciences, Boston University, Boston, MA

2007-2008 Interim Chair, Department of Physical Therapy and Athletic Training, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA

## **Honors and Awards**

2022 MGH Neuroscience Conference, “Spaulding REhabilitation and COVid Recovery study (RECOVR): 6- to 12-month trajectories and outcomes” Best Poster Award for Interdisciplinary Research

2020-pres Nominated, NIAMS Data and Safety Monitoring Board; Fibromyalgia TENS in Physical Therapy Study (TIPS): an Embedded Pragmatic Trial

2013-2016 Elected Chair, Physical Activity Work Group, national Osteoarthritis Action Alliance, United States

2012, 2016 Arthritis Foundation, Advocacy Summit Travel Award (Award supports travel, training and Capitol Hill advocacy with the US legislators)

2011 Invited Member of the Centers of Disease Control and Prevention and Arthritis Foundation’s Expert Advisory Panel on Physical Activity and Arthritis

2005 Arthritis Foundation, Arthritis Investigator Award (Career Development)

2003 NIH Boston University Interdisciplinary Research in Women’s Health Building Interdisciplinary Research Careers in Women’s Health, January 2003-December 2004

1999 Arthritis Foundation Dissertation Award, 1999-2001

1998 National Institutes of Health Pre-Doctoral Fellowship, 1998-1999

1988 Isola Braun Award: Potential for Professional Development, University of Vermont

1988 University of Vermont, Department of Physical Therapy Cum Laude

1986 University of Vermont, Department of Physical Therapy, Sophomore Mortar Board Award

## **License and Certification**

1988-2009 Physical Therapist; State of North Carolina

2010-present Physical Therapist; Massachusetts, #18912

## **Grants**

### **Current**

9/1/22-5/31/22 Massachusetts Institute of Technology (MIT), NSF ERC on Connected ElderCare Planning Project Seed Grant; PI: Keysor J  
Title: ExoBoot Bilateral Orthoses for Osteoarthritis Strength Training (ExoBoot BOOST) for Knee OA: A Proof of Concept and Feasibility Study  
\$25,000 (total) to support salary and research needs

## Pending

- 09/2022 - 08/2024 NIH SBIR Phase I (Score 27)  
**Keysor J (PI)** Subcontract; Contessa P (PI)  
Whole-body VR for Kid-friendly Yoga Therapy  
Major Goals: Develop and pilot test a new virtual reality system to allow therapist and child simultaneous interaction to perform yoga for chronic pain treatment in the home setting.  
Total Subcontract Award Amount \$123,069 (Direct: \$78,918; Indirect: \$23,076)  
Effort: Keysor (10%); Shulman J (PT at Boston Children's Hospital) (10\$)
- 09/22-08/25 NIH SBIR Phase II (Score 28)  
**Keysor J (co-PI)** Subcontract; Vazari A (PI)  
StrokeWear: A Novel Wrist Wearable Sensor System to Promote Hemiparetic Upper Extremity Use in Home Daily Life  
Major Goals: Enhance the StrokeWare platform developed in the SBIR Phase I project to foster greater goal directed movement of hemiparetic limbs through enhanced behavior change and technologies to link providers in the clinic to patients in the home setting.  
Total Subcontract Award Amount: \$426,886 (Direct: \$266,804; Indirect: \$160,082)  
Effort: Keysor (20%); Pre-Doctoral Student (100%)
- 9/22-08/24 NIH SBIR Phase II (Submitted; Score Pending)  
**Keysor J (co-PI)** Subcontract with Townsend E; Kline J, (PI)  
Immersive and Interactive VR Platform for Quantitative Telehealth Rehabilitation of Children with Rare Diseases  
Major Goal: To develop and evaluate the VR programs and platforms developed in Phase I for deployment in the home setting for children with rare diseases.  
Total Subcontract Award Amount: \$206,682 (Direct: \$158,986; Indirect \$47,696)  
Effort: Keysor (15% year 1; 10% year 2); Townsend (10%); Karim (10% year 2)
- 4/1/23-3/31/26 NIDIRR R15 (Submitted; Score Pending)  
**Keysor J (PI)**  
Development and Evaluation of a Novel Graduate Student Evidence-Based Delivery Model for Arthritis Work Disability: An Implementation Study  
The major goal of this project is to adopt the evidence-based Stay Employed program for delivery by an interprofessional team of graduate

health professions students, prepare for implementation, and evaluate feasibility of program delivery in a pilot study.

Total Costs: \$479,988 (Direct: \$299,992; Indirect: \$179,995)

Effort: Keysor (20%); Pre-Doctoral Student (100%)

## Completed

06/2021-05/2022

NIH SBIR Phase I 1R43AG072991-01

**Keysor J (PI)** Subcontract; Contessa P (PI) SBIR

Augmented Reality Platform for Telehealth Rehabilitation

Major Goals: To develop a new augmented reality platform that will allow physical therapists to evaluate knee structure and function of adults with painful knee osteoarthritis; to examine the feasibility of using the augmented reality platform to ascertain five common knee function clinical assessments of people with knee OA

Total Subcontract Award \$110,877 (direct: \$62,188; indirect: \$37,313)

Effort: Keysor (10%); Gross (10%); Karim (5.4%), Clock (5.4%), and Schmidt (5.4%)

8/2020-12/2022

MGH Institute of Health Professions

**PI: Keysor**

Internal COVID Rapid Research Award

Health and Function Outcomes After COVID-19 Discharge: A Feasibility Study

Total Costs: \$4250

10/1/10-9/30/17

**PI: Keysor**; H133B100003/90RT5009 National Institute on Disability and Rehabilitation (NIDRR), Rehabilitation Research and Training Center (RRTC)

Center for Enhancing Activity and Participation of Persons with Arthritis (ENACT)

Director, ENACT

Total Award: \$4,000,000

Grant established the Arthritis Rehabilitation Research and Training center titled, "Enhancing Activity and Participation among Persons with Arthritis (ENACT)". The Center supported 3 research studies, 4-pre-doctoral trainees, and several educational and dissemination projects for health care providers and consumers.

Research Project 1: Efficacy of a Modified Vocational Rehabilitation Intervention (**Keysor J & Allaire S: co-PIs**)

This was a clinical trial examining outcomes of an intervention aimed to enhance work retention among persons with arthritis who are at risk of work loss.

Research Project 2: Can Computer-Based Telephone Counseling Improve Long-Term Adherence to Strength Training in Elders with Knee OA?  
**(Baker K: PI; Keysor: co-I)**

This was a clinical trial examining outcomes of a technology intervention aimed to enhance exercise adherence among persons with knee osteoarthritis after participating in a 6-week strength training program.

Research Project 3: Community and Home Participation after Total Knee Replacement **(Maxwell J: PI; Felson D: co-PI; Keysor: co-I)**

This was an epidemiological study and qualitative study examining factors associated with poor participation outcomes post total knee joint replacement.

09/24/01-2017

PI: Felson; 2P60 AR47785-08 NIAMS  
Multidisciplinary Clinical Research Center at Boston University (MCRC)  
**Keysor: Behavioral Scientist; 5% effort**

This was a multi-project center grant supporting four clinical research projects including one clinical trial, a population-based observational study, and patient-based cohort studies.

09/30/01-2017

PI: Felson; 5U01 AG18820-09 NIH/NIA  
Multicenter Osteoarthritis Study (MOST)  
**Keysor: Behavioral Scientist; 10% effort**

This was a multicenter observational project evaluating the relation of risk factors to the development or progression of symptomatic osteoarthritis, particularly OA of the knee.

2017

**Keysor: co-Director; Borrelli B: Director**  
Mobile and Electronic Health Boston University Affinity Research Collaborative  
Internal Boston University funding \$79,000  
Evans Center for Interdisciplinary Research, Boston University School of Medicine, Department of Medicine

2014-2016

**PI: Keysor JJ**, Arthritis Foundation/Centers of Disease Control and Prevention Contract  
“Walkability Audit”: OA Action Alliance, Phase 2 Critical Review of Existing Assessments

\$43,786

- 2013 **PI: Keysor JJ**, R13 National Institutes on Arthritis and Musculoskeletal and Skin Disease  
New Investigator Workshop on Advancing Arthritis Research  
\$15,000
- 2013 **PI: Keysor JJ**, Arthritis Foundation/Centers of Disease Control and Prevention Contract  
“Walkability Audit”: OA Action Alliance, Phase 1 Critical Review of Existing Assessments  
\$10,000
- 1999-2013 PI: Fredman, L. R01 AG18037 NIH/NIA  
Health decline in aged caregivers: an epidemiologic study.  
**Keysor: Co-Investigator**  
  
This is a multicenter longitudinal study evaluating whether informal caregivers have higher rates of physical health decline, defined by falls, weight change, and change in functional status, among respondents in the Study of Osteoporotic Fractures (SOF).
- 2007-2012 PI: Fredman, L. 1 R01 AG028144-01A1 NIH/NIA  
Pathways from stress to metabolic syndrome and health decline in aged caregivers.  
**Keysor: Co-Investigator**  
  
Description: This study will compare the prospective pathways from stress, to homeostatic dysregulation, and subsequent development of metabolic syndrome and health decline over a 3-year period among 200 elderly caregivers to persons with Alzheimer’s Disease or Parkinson’s Disease versus 200 elderly non-caregivers.
- 2006-2010 PI: Felson; 5R01 AR053161-03; NIH/NIAMS \$237,895, Structural Correlates of Knee Pain;  
**Keysor: Behavioral Scientist**
- 2007-2009 **PI Keysor JJ**: Arthritis Foundation Arthritis Investigator Award (Competitive Renewal). Disability Risk Factors among Older Adults with Knee Arthritis. Career Development Award. (September 2007-August 2009; \$90,000 per year 2 years)

- 2005-2007 **PI: Keysor JJ:** Arthritis Foundation Arthritis Investigator Award. Disability Risk Factors among Older Adults with Knee Arthritis. Career Development Award. (August 2005-July 2007; \$75,000 per year/2 years)
- 2004 **PI: Keysor JJ:** Boston Medical Center/Boston University Interdisciplinary Women's Health Research Scholar's Award (BIRCWH); Project: Gender Differences Regarding Relationships Among the Environment, Attitudes, and Disability. (January 2003-December 2004; \$90,000 per year/2 years)
- 2003 **PI: Keysor JJ:** Principal Investigator, Pilot Project from Boston University Interdisciplinary Aging Research Center (BU-ARC), Project: The Role of the Environment and Personal Factors in Disability. (May 2003-April 2005; \$20,000).
- 2001-2003 **PI: Keysor JJ:** Principal Investigator, Project 4: Field Test of a Rehabilitation Outcomes System, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA. Funding from National Institute on Disability and Rehabilitation Research (September 2001- January 2003); Jette, A. Principal Investigator of a Center NIDRR RRTC grant
- 2002-2002 **PI: Keysor JJ:** Principal Investigator, Facilitators and Barriers Encountered in the Environment: Pilot Test of a New Measure, Roybal Center for Enhancement of Late-Life Function, Pilot Study Project, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA. Funding from the National Institute on Aging (February 2002 – June 2002; \$10,000)
- 2001 **PI: Keysor JJ:** Principal Investigator, Development of a Measure to Assess Elders' Beliefs and Attitudes Regarding Disability, Roybal Center for Enhancement of Late-Life Function, Pilot Study Project, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA. Funding from the National Institute on Aging (February 2001 – December 2001; \$10,000)

## **Publications**

### **Peer-Reviewed articles**

1. Gore S, **Keysor J.** COVID-19 Postacute Sequela Rehabilitation: A Look to the Future Through the Lens of Chronic Obstructive Pulmonary Disease and Pulmonary Rehabilitation. Arch Rehabil Res Clin Transl. 2022 Jun;4(2):100185. doi: 10.1016/j.arrct.2022.100185. Epub 2022 Feb 24. PMID: 35229076; PMCID: PMC8868001.



2. \*Joyce C, **Keysor J**, Stevans J, Ready K, Roseen EJ, Saper RB. Beyond the pain: A qualitative study exploring the physical therapy experience in patients with chronic low back pain. *Physiother Theory Pract.* 2022 Jan 27;1-11. doi: 10.1080/09593985.2022.2029650. Epub ahead of print. PMID: 35086420.
3. AlHeresh R, Vaughan MW, Brenner IH, **Keysor J**. Recruitment cost and outcomes for an arthritis work disability prevention randomized clinical trial: The Work It study. *Contemp Clin Trials Commun.* 2021 Nov 12;24:100862. doi: 10.1016/j.conctc.2021.100862. PMID: 34825102; PMCID: PMC8605186.
4. \*Joyce C, Roseen EJ, **Keysor JJ**, Gross KD, Culpepper L, Saper RB. Can Yoga or Physical Therapy for Chronic Low Back Pain Improve Depression and Anxiety Among Adults From a Racially Diverse, Low-Income Community? A Secondary Analysis of a Randomized Controlled Trial. *Arch Phys Med Rehabil.* 2021 Jun;102(6):1049-1058. doi: 10.1016/j.apmr.2021.01.072. Epub 2021 Feb 5. PMID: 33556352; PMCID: PMC8184573.
5. \*Shulman J, Zurakowski D, **Keysor J**, Jervis K, Sethna NF. Offset analgesia identifies impaired endogenous pain modulation in pediatric chronic pain disorders. *Pain.* 2020 Dec;161(12):2852-2859. doi: 10.1097/j.pain.0000000000001984. PMID: 32658151.
6. \*Roseen EJ, Ward RE, **Keysor JJ**, Atlas SJ, Leveille SG, Bean JF. The Association of Pain Phenotype with Neuromuscular Impairments and Mobility Limitations Among Older Primary Care Patients: A Secondary Analysis of the Boston Rehabilitative Impairment Study of the Elderly. *PM R.* 2020 Aug;12(8):743-753. doi: 10.1002/pmrj.12336. Epub 2020 Feb 25. PMID: 31994830.
7. Baker K, LaValley MP, Brown C, Felson DT, Ledingham A, **Keysor JJ**. Efficacy of Computer-Based Telephone Counseling on Long-Term Adherence to Strength Training in Elderly Patients With Knee Osteoarthritis: A Randomized Trial. *Arthritis Care Res (Hoboken).* 2020 Jul;72(7):982-990. doi: 10.1002/acr.23921. PMID: 31074576.
8. \*Ledingham A, Cohn ES, Baker KR, **Keysor JJ**. Exercise adherence: beliefs of adults with knee osteoarthritis over 2 years. *Physiother Theory Pract.* 2020 Dec;36(12):1363-1378. doi: 10.1080/09593985.2019.1566943. Epub 2019 Jan 17. PMID: 30652930.
9. Chang FH, Jette AM, Slavin MD, Baker K, Ni P, **Keysor JJ**. Detecting functional change in response to exercise in knee osteoarthritis: a comparison of two computerized adaptive tests. *BMC Musculoskelet Disord.* 2018 Jan 23;19(1):29. doi: 10.1186/s12891-018-1942-9. PMID: 29361920; PMCID: PMC5782393.
10. **Keysor JJ**, LaValley MP, Brown C, Felson DT, AlHeresh RA, Vaughan MW, Yood R, Reed JI, Allaire SJ. Efficacy of a Work Disability Prevention Program for People with Rheumatic and Musculoskeletal Conditions: A Single-Blind Parallel-Arm Randomized Controlled Trial. *Arthritis Care Res (Hoboken).* 2018 Jul;70(7):1022-1029. doi: 10.1002/acr.23423. Epub 2018 Apr 25. PMID: 28941189; PMCID: PMC6374024.

11. \*Vaughan MW, LaValley MP, Felson DT, Orsmond GI, Niu J, Lewis CE, Segal NA, Nevitt MC, **Keysor JJ**. Affect and Incident Participation Restriction in Adults With Knee Osteoarthritis. *Arthritis Care Res (Hoboken)*. 2018 Apr;70(4):542-549. doi: 10.1002/acr.23308. Epub 2018 Feb 18. PMID: 28686817; PMCID: PMC6492559.
12. \*AlHeresh R, LaValley MP, Coster W, **Keysor JJ**. Construct Validity and Scoring Methods of the World Health Organization: Health and Work Performance Questionnaire Among Workers With Arthritis and Rheumatological Conditions. *J Occup Environ Med*. 2017 Jun;59(6):e112-e118. doi: 10.1097/JOM.0000000000001044. PMID: 28598938; PMCID: PMC5493993.
13. \*Vaughan MW, Felson DT, LaValley MP, Orsmond GI, Niu J, Lewis CE, Segal NA, Nevitt MC, **Keysor JJ**. Perceived Community Environmental Factors and Risk of Five-Year Participation Restriction Among Older Adults With or at Risk of Knee Osteoarthritis. *Arthritis Care Res (Hoboken)*. 2017 Jul;69(7):952-958. doi: 10.1002/acr.23085. Epub 2017 Jun 2. PMID: 28129478; PMCID: PMC5487278.
14. Maxwell J, Vaughan M, Ledingham A, Felson D, **Keysor J**. "Fear of the Known and Unknown": Factors Affecting Participation Following Knee Replacement Among Persons With Participation Restriction. *J Geriatr Phys Ther*. 2018 Jan/Mar;41(1):35-41. doi: 10.1519/JPT.000000000000104. PMID: 27824655.
15. **Keysor JJ**, AlHeresh R, Vaughan M, LaValley MP, Allaire S. The Work-It Study for people with arthritis: Study protocol and baseline sample characteristics. *Work*. 2016 Jun 14;54(2):473-80. doi: 10.3233/WOR-162331. PMID: 27315415.
16. \*Alheresh R, Vaughan M, LaValley MP, Coster W, **Keysor JJ**. Critical Appraisal of the Quality of Literature Evaluating Psychometric Properties of Arthritis Work Outcome Assessments: A Systematic Review. *Arthritis Care Res (Hoboken)*. 2016 Sep;68(9):1354-70. doi: 10.1002/acr.22814. Epub 2016 Jul 27. PMID: 26679938; PMCID: PMC5844471.
17. \*Vaughan M, LaValley MP, AlHeresh R, **Keysor JJ**. Which Features of the Environment Impact Community Participation of Older Adults? A Systematic Review and Meta-Analysis. *J Aging Health*. 2016 Sep;28(6):957-78. doi: 10.1177/0898264315614008. Epub 2015 Nov 17. PMID: 26578546.
18. Bacon KL, Heeren T, **Keysor JJ**, Stuver SO, Cauley JA, Fredman L. Longitudinal and Reciprocal Relationships Between Depression and Disability in Older Women Caregivers and Noncaregivers. *Gerontologist*. 2016 Aug;56(4):723-32. doi: 10.1093/geront/gnu157. Epub 2015 Feb 9. PMID: 26035874; PMCID: PMC4944533.
19. \*AlHeresh RA, **Keysor JJ**. The Work Activity and Participation Outcomes Framework: a new look at work disability outcomes through the lens of the ICF. *Int J Rehabil Res*. 2015 Jun;38(2):107-12. doi: 10.1097/MRR.000000000000112. PMID: 25715231.

20. Wise BL, Niu J, Zhang Y, Felson DT, Bradley LA, Segal N, **Keysor J**, Nevitt M, Lane NE. The association of parity with osteoarthritis and knee replacement in the multicenter osteoarthritis study. *Osteoarthritis Cartilage*. 2013 Dec;21(12):1849-54. doi: 10.1016/j.joca.2013.08.025. Epub 2013 Sep 9. PMID: 24029601; PMCID: PMC3855897.
21. Allaire SJ, **Keysor JJ**, Alheresh R. Effect of arthritis and other rheumatic conditions on employment. *Work*. 2013;45(3):417-20. doi: 10.3233/WOR-131629. PMID: 23963442.
22. Allaire SJ, AlHeresh R, **Keysor JJ**. Risk factors for work disability associated with arthritis and other rheumatic conditions. *Work*. 2013;45(4):499-503. doi: 10.3233/WOR-131667. PMID: 23823211.
23. Maxwell JL, **Keysor JJ**, Niu J, Singh JA, Wise BL, Frey-Law L, Nevitt MC, Felson DT. Participation following knee replacement: the MOST cohort study. *Phys Ther*. 2013 Nov;93(11):1467-74. doi: 10.2522/ptj.20130109. Epub 2013 Jun 27. PMID: 23813082; PMCID: PMC3827713.
24. \*Crandall S, Howlett S, **Keysor JJ**. Exercise adherence interventions for adults with chronic musculoskeletal pain. *Phys Ther*. 2013 Jan;93(1):17-21. doi: 10.2522/ptj.20110140. Epub 2012 Oct 4. PMID: 23043147.
25. \*White DK, Wilson JC, **Keysor JJ**. Measures of adult general functional status: SF-36 Physical Functioning Subscale (PF-10), Health Assessment Questionnaire (HAQ), Modified Health Assessment Questionnaire (MHAQ), Katz Index of Independence in activities of daily living, Functional Independence Measure (FIM), and Osteoarthritis-Function-Computer Adaptive Test (OA-Function-CAT). *Arthritis Care Res (Hoboken)*. 2011 Nov;63 Suppl 11:S297-307. doi: 10.1002/acr.20638. PMID: 22588752.
26. \*White DK, **Keysor JJ**, Neogi T, Felson DT, LaValley M, Gross KD, Niu J, Nevitt M, Lewis CE, Torner J, Fredman L. When it hurts, a positive attitude may help: association of positive affect with daily walking in knee osteoarthritis. Results from a multicenter longitudinal cohort study. *Arthritis Care Res (Hoboken)*. 2012 Sep;64(9):1312-9. doi: 10.1002/acr.21694. PMID: 22504854; PMCID: PMC3410957.
27. **Keysor JJ**, Brems A. Exercise: necessary but not sufficient for improving function and preventing disability? *Curr Opin Rheumatol*. 2011 Mar;23(2):211-8. doi: 10.1097/BOR.0b013e3283432c41. PMID: 21252681.
28. Foster NA, Segal NA, Clearfield JS, Lewis CE, **Keysor J**, Nevitt MC, Torner JC. Central versus lower body obesity distribution and the association with lower limb physical function and disability. *PM R*. 2010 Dec;2(12):1119-26. doi: 10.1016/j.pmrj.2010.09.002. PMID: 21145524; PMCID: PMC3084596.

29. \*White DK, Zhang Y, Niu J, **Keysor JJ**, Nevitt MC, Lewis CE, Torner JC, Neogi T. Do worsening knee radiographs mean greater chances of severe functional limitation? *Arthritis Care Res (Hoboken)*. 2010 Oct;62(10):1433-9. doi: 10.1002/acr.20247. PMID: 20506398; PMCID: PMC2939286.
30. \*White DK, **Keysor JJ**, Lavalley MP, Lewis CE, Torner JC, Nevitt MC, Felson DT. Clinically important improvement in function is common in people with or at high risk of knee OA: the MOST study. *J Rheumatol*. 2010 Jun;37(6):1244-51. doi: 10.3899/jrheum.090989. Epub 2010 Apr 15. PMID: 20395640; PMCID: PMC2913686.
31. \*White DK, Jette AM, Felson DT, Lavalley MP, Lewis CE, Torner JC, Nevitt MC, **Keysor JJ**. Are features of the neighborhood environment associated with disability in older adults? *Disabil Rehabil*. 2010;32(8):639-45. doi: 10.3109/09638280903254547. PMID: 20205576; PMCID: PMC2908013.
32. \*White DK, Zhang Y, Felson DT, Niu J, **Keysor JJ**, Nevitt MC, Lewis CE, Torner JC, Neogi T. The independent effect of pain in one versus two knees on the presence of low physical function in a multicenter knee osteoarthritis study. *Arthritis Care Res (Hoboken)*. 2010 Jul;62(7):938-43. doi: 10.1002/acr.20166. PMID: 20191572; PMCID: PMC2902715.
33. **Keysor JJ**, Jette AM, LaValley MP, Lewis CE, Torner JC, Nevitt MC, Felson DT; Multicenter Osteoarthritis (MOST) group. Community environmental factors are associated with disability in older adults with functional limitations: the MOST study. *J Gerontol A Biol Sci Med Sci*. 2010 Apr;65(4):393-9. doi: 10.1093/gerona/glp182. Epub 2009 Dec 8. PMID: 19995830; PMCID: PMC2905834.
34. **Keysor JJ**, Heislein D. Physical Activity Considerations among People with Knee and Hip Osteoarthritis. *International Journal of Clinical Rheumatology* 5:6:659-667, 2010.
35. Allaire S, **Keysor JJ**. Development of a structured interview tool to help patients identify and solve rheumatic condition-related work barriers. *Arthritis Rheum*. 2009 Jul 15;61(7):988-95. doi: 10.1002/art.24610. PMID: 19565550.
36. \*Prvu Bettger JA, Coster WJ, Latham NK, **Keysor JJ**. Analyzing change in recovery patterns in the year after acute hospitalization. *Arch Phys Med Rehabil*. 2008 Jul;89(7):1267-75. doi: 10.1016/j.apmr.2007.11.046. PMID: 18586128; PMCID: PMC4685466.
37. \*Hanson H, Wagner M, Monopoli V, **Keysor J**. Low back pain in physical therapists: a cultural approach to analysis and intervention. *Work*. 2007;28(2):145-51. PMID: 17312346

38. **Keysor JJ**, Jette AM, Coster W, Bettger JP, Haley SM. Association of environmental factors with levels of home and community participation in an adult rehabilitation cohort. *Arch Phys Med Rehabil.* 2006 Dec;87(12):1566-75. doi: 10.1016/j.apmr.2006.08.347. PMID: 17141635.
39. **Keysor JJ**, Dunn JE, Link CL, Badlissi F, Felson DT. Are foot disorders associated with functional limitation and disability among community-dwelling older adults? *J Aging Health.* 2005 Dec;17(6):734-52. doi: 10.1177/0898264305280998. PMID: 16377770.
40. Jette AM, **Keysor J**, Coster W, Ni P, Haley S. Beyond function: predicting participation in a rehabilitation cohort. *Arch Phys Med Rehabil.* 2005 Nov;86(11):2087-94. doi: 10.1016/j.apmr.2005.08.001. PMID: 16271553.
41. Badlissi F, Dunn JE, Link CL, **Keysor JJ**, McKinlay JB, Felson DT. Foot musculoskeletal disorders, pain, and foot-related functional limitation in older persons. *J Am Geriatr Soc.* 2005 Jun;53(6):1029-33. doi: 10.1111/j.1532-5415.2005.53315.x. PMID: 15935029.
42. **Keysor J**, Jette A, Haley S. Development of the home and community environment (HACE) instrument. *J Rehabil Med.* 2005 Jan;37(1):37-44. doi: 10.1080/16501970410014830. PMID: 15788331.
43. Dunn JE, Link CL, Felson DT, Crincoli MG, **Keysor JJ**, McKinlay JB. Prevalence of foot and ankle conditions in a multiethnic community sample of older adults. *Am J Epidemiol.* 2004 Mar 1;159(5):491-8. doi: 10.1093/aje/kwh071. PMID: 14977645.
44. Pincus T, **Keysor J**, Sokka T, Krishnan E, Callahan LF. Patient questionnaires and formal education level as prospective predictors of mortality over 10 years in 97% of 1416 patients with rheumatoid arthritis from 15 United States private practices. *J Rheumatol.* 2004 Feb;31(2):229-34. PMID: 14760789.
45. **Keysor JJ**, DeVellis BM, DeFries GH, DeVellis RF, Jordan JM, Konrad TR, Mutran EJ, Callahan LF. Critical review of arthritis self-management strategy use. *Arthritis Rheum.* 2003 Oct 15;49(5):724-31. doi: 10.1002/art.11369. PMID: 14558062.
46. **Keysor JJ**. Does late-life physical activity or exercise prevent or minimize disablement? A critical review of the scientific evidence. *Am J Prev Med.* 2003 Oct;25(3 Suppl 2):129-36. doi: 10.1016/s0749-3797(03)00176-4. PMID: 14552936.
47. Jette AM, **Keysor JJ**. Disability models: implications for arthritis exercise and physical activity interventions. *Arthritis Rheum.* 2003 Feb 15;49(1):114-20. doi: 10.1002/art.10909. PMID: 12579601.
48. Jette AM, **Keysor JJ**. Uses of evidence in disability outcomes and effectiveness research. *Milbank Q.* 2002;80(2):325-45. doi: 10.1111/1468-0009.t01-1-00006. PMID: 12101875; PMCID: PMC2690106.

49. **Keysor JJ**, Jette AM. Have we oversold the benefit of late-life exercise? *J Gerontol A Biol Sci Med Sci*. 2001 Jul;56(7):M412-23. doi: 10.1093/gerona/56.7.m412. PMID: 11445600.
50. **Keysor JJ**, Desai T, Mutran EJ. Elders' preferences for care setting in short- and long-term disability scenarios. *Gerontologist*. 1999 Jun;39(3):334-44. doi: 10.1093/geront/39.3.334. PMID: 10396891.
51. **Keysor JJ**, Sparling JW, Riegger-Krugh C. The experience of knee arthritis in athletic young and middle-aged adults: a heuristic study. *Arthritis Care Res*. 1998 Aug;11(4):261-70. doi: 10.1002/art.1790110407. PMID: 9791325.

### Books and Chapters

1. Keysor JJ. White DK. *Community Participation and the Environment: Theoretical, Assessment and Clinical Implications*. 5th Edition, *Physical Medicine and Rehabilitation: Principle and Practice*. 2010
2. **Keysor JJ**. How Does the Environment Influence Disability? Examining the Evidence. Appendix D in *Workshop on Disability in America: A New Look. Summaries and Background Papers*. Institute of Medicine. National Academies Press, Washington DC, 2005

### Editorials and Critical Reviews

None

### Non-Peer Reviewed Materials

1. **Keysor JJ**, Riegger-Krugh C. *Physical Activity Recommendations for People Living with Knee Joint Arthritis*. Videotape, Health Sciences Consortium of Chapel Hill, NC, 1995
2. Chandler J, Cotter-Laub K, **Keysor J**, MacAller H, Schenkman M. *Axial Mobility Exercise Program: Participant's Manual*. Claude D. Pepper Older American's Independence Center at Duke University, Durham, NC, 1993
3. Schenkman M, **Keysor J**, Chandler J, Cotter-Laub K, MacAller H. *Axial Mobility Exercise Program: Instructor's Manual*. Claude D. Pepper Older American's Independence Center at Duke University, Durham, NC, 1993
4. **Keysor J**. *Lumbar Spinal Fusions: Preparation for Surgery, Pre- and Post-Operative Care, & Rehabilitation Program*. Duke University Medical Center, Durham, NC, 1989

## Online Materials

Center for Enhancing Activity and Participation (ENAC): <https://www.bu.edu/enact/>

## Media Appearances

None

## Peer-Reviewed Presentations and Abstracts

- Karim R, Roy S, Talmage O, Clock C, Schmidt CT, Gross KD, Keysor JJ. 2022  
Augmented Reality and Clinical Assessments: Examining the Feasibility for  
Older Adults with Knee Osteoarthritis. APTA CSM San Diego, CA \*submitted
- Keysor JJ, Twardowski M, Roy S, Kline J, Shiwani B. Virtual Reality Platforms 2022  
for Quantitative Telerehabilitation of Children with Disabilities: A Proof of  
Concept Study APTA CSM San Diego, CA \*submitted
- Cameron J, Albers CA, Murphy A, Moody S, Galinat K, Dupre K, Keysor JJ. 2022  
Implementing an Evidence-Based Job Retention Program for People with  
Arthritis: An Implementation Science Case-Study APTA CSM San Diego, CA  
\*submitted
- Hsu P-Y, Wickenden M, Singer J, Keysor JJ. Use of Augmented Reality in 2022  
Physical Therapy Practice: A Scoping Review. APTA CSM San Diego, CA  
\*submitted
- Keysor, J.**, Waters, A., Chen, R., Andreu, M., Bergin, M., Bodien, Y., Bonato, P, 2021  
Boudreau, N., Brown, L, Corey, K., Gottlieb, R. , O'Brien, A<sup>1</sup>, Riepl, N. ,  
Vergara- Diaz, G. , Borsi, L., Zafonte, R., & Giacino, J. Spaulding REhabilitation  
and COVid Recovery study (RECOVR): 6- to 12-month trajectories and  
outcomes. MGH Neuroscience Research Day; Award: Best Poster
- AlHeresh R, Keysor J, “Workplace barriers experienced by people with arthritis 2021  
and rheumatic conditions at risk of pre-mature employment cessation.” Paper  
presented to the American Congress of Rehabilitation Medicine
- A. Waters, R. Chen, M. Andreu, M. Bergin, Y. Bodien, P. Bonato, Julie Keysor, 2021  
N. Boudreau, L. Brown, K. Corey, R. Gottlieb, A. O'Brien, N. Riepl, G.  
Vergara\_Diaz and J. Giacino, “Spaulding REhabilitation and COVid Recovery  
study (RECOVR): Preliminary findings at 6 months.” Paper presented to the  
American College of Rehabilitation Medicine

- AlHeresh R, Keysor J. “Workplace barriers among people with Arthritis: Results from The Work Experience Survey for Rheumatic Conditions.” Poster presented at the IHP Faculty Research Day 2001
- Simpson L, **Keysor JJ**, Cochrane F, Allaire SA. Preferences for Receiving an Evidence-Based Job Retention Program Among Adults with Arthritis. Gerontological Society of America, Annual Scientific Meeting, Boston, MA 2020
- Keysor JJ**, LaValley M, Brown C, Felson DT, AlHeresh R, Vaughan M, Yood R, Reed J, Allaire S. Efficacy of a Work Disability Prevention Program for People with Arthritis and Musculoskeletal Conditions: The Work It Study Trial. APTA Combined Sections Meeting, San Antonio, TX 2017
- Exercise and Adherence over Two Years: Beliefs of Adults with Knee Osteoarthritis. Ledingham A, Cohen E, Baker K, **Keysor J**. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Washington DC 2017
- Ledingham A, Cohn E, Pesanelli K, Baker K, **Keysor J**. Adults with knee osteoarthritis: Perspectives on telephone technology to support adherence to exercise. APTA Combined Sections Meeting, San Antonio, TX 2017
- Vaughan M, Felson DT, LaValley MP, Orsmond GI, Niu J, Lewis CE, Segal NA, Nevitt MC, **Keysor JJ**. Affect and Incident Participation Restriction in Adults with Knee Osteoarthritis: The MOST Study. Poster. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Meeting. Washington, D.C. 2016
- Baker KR, Ledingham A, Pesanelli K, Cochrane F, Friedman R, Felson DT, **Keysor JJ**. Addition of Automated Telephone-linked Communication to a Progressive Resistance Training Program in People with Knee Osteoarthritis to Improve Long-term Exercise Adherence. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Washington DC 2016
- Keysor JJ**, LaValley M, Brown C, Felson DT, AlHeresh R, Vaughan M, Yood R, Reed J, Allaire S. Efficacy of a Work Disability Prevention Program for People with Arthritis and Musculoskeletal Conditions: The Work It Study Trial. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Scientific Meeting, Washington DC 2016
- Ledingham A, Cohn E, Baker KR, **Keysor JJ**. Adults with knee osteoarthritis: Perspectives on telephone technology to support adherence to exercise. NARTCC Washington DC 2016



- Keysor JJ**, LaValley M, Brown C, Felson DT, AlHeresh R, Vaughan M, Allaire S. Efficacy of a Work Disability Prevention Program for People with Arthritis and Musculoskeletal Conditions: The Work-It Randomized Controlled Trial. NARTCC Washington DC 2016
- Vaughan M, LaValley M, Niu J, Lewis CE, Segal NA, Nevitt MC, Felson DT, **Keysor JJ**. Poster. Community Environmental Factors Predict Risk Of 5-Year Participation Restriction Among Older Adults With Or At Risk Of Developing Knee Osteoarthritis: The Most Study. Osteoarthritis Research Society International World Congress. Amsterdam, Netherlands 2016
- Jensen, T., Simpson, E., **Keysor, J**, Slavin, M. Poster. An Environmental Scan to Identify and Evaluate Web-based Community Walking Toolkits. American Society on Aging's Aging in America Conference. Washington, DC 2015
- Maxwell, JL., Vaughan, M., Ledingham, A., Felson, DT., **Keysor, JJ**. Poster. Fear of the Unknown: Factors Effecting Participation Restrictions following Knee Replacement. Poster. American Physical Therapy Association – Combined Sections Meeting, Anaheim, CA 2016
- Keysor, JJ**. Symposia. OAAA Resources and Efforts to Impact OA Awareness, Education and Management. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Meeting. San Francisco, CA 2015
- Ledingham A, **Keysor JJ**, Baker KR. "Hello'. Can a computerized phone call help me adhere to my physical therapy home exercise program?" American Physical Therapy Association, Annual Meeting 2014
- Keysor JJ**, Baker KR. Promoting Activity and Participation among People with Arthritis: Updates from the Field. National Association of Rehabilitation Research and Training Centers (NARRTC) Annual Meeting, Washington, DC 2014
- AlHeresh R. **Keysor JJ**, Vaughan M, LaValley M, Allaire S. "Recruitment Lessons from a Rehabilitation-based Randomized Trial for Sustaining Work Participation among People with Arthritis." American Occupational Therapy Association, Baltimore, MD 2014
- AlHeresh R. **Keysor JJ**, Vaughan M, LaValley M, Allaire S. "Baseline Work Participation of a Novel Intervention to Minimize Work Disability among Persons with Arthritis: The Work It Study" American Occupational Therapy Association, Baltimore, MD 2014
- Vaughan MW, Alheresh, R. **Keysor JJ**. "Mapping environmental features in the environment-participation literature of older adults to the ICF Framework". American Physical Therapy Association Combined Sections Meeting, Las Vegas 2014

- Maxwell JM, **Keysor JJ**, Niu J, Singh J, Nevitt MC, Frey-Law L, Felson DT. 2014  
 “The Effect of Knee Replacement on Participation Restriction: The MOST and OAI Studies”. American Physical Therapy Association Combined Sections Meeting, Las Vegas
- Alheresh R, **Keysor JJ**, Vaughan M, LaValley M, Allaire S. The Work It 2013  
 Randomized Trial: Baseline Demographics and Work Status. American College of Rheumatology/ Association of Rheumatology Health Professionals Annual Scientific Meeting. San Diego, CA
- Alheresh R, **Keysor JJ**, Vaughan M, LaValley M, Allaire S. „Work It“ 2013  
 Recruitment: Lessons Learned from a Work Disability Randomized Trial. American College of Rheumatology/ Association of Rheumatology Health Professionals Annual Scientific Meeting. San Diego, CA, Oct.
- Maxwell J., **Keysor JJ**. Community Participation after Total Joint Replacement: 2013  
 The MOST Study. NARRTC Washington DC
- Alheresh R, **Keysor JJ**. Work Disability and Employment Retention in 2012  
 Promoting participation: Where is the field and where do we go next? American College of Rheumatology/ Association of Rheumatology Health Professionals. Workshop Keysor JJ, Alheresh R, Maxwell J.. Annual Meeting, Washington DC
- Keysor JJ**. Participation and Community Dwelling Adults with Arthritis in 2012  
 Promoting participation: Where is the field and where do we go next? American College of Rheumatology/ Association of Rheumatology Health Professionals. Workshop Keysor JJ, Alheresh R, Maxwell J.. Annual Meeting, Washington DC
- Keysor, JJ**. Participation: Definitions and Current Measurement Approaches in 2012  
 Promoting participation: Where is the field and where do we go next? American College of Rheumatology/ Association of Rheumatology Health Professionals. Workshop Keysor JJ, Alheresh R, Maxwell J.. Annual Meeting, Washington DC
- Keysor JJ**, Chang HJ, Yang T, Lewis CE, Nevitt MC, Felson DT African 2012  
 American Adults Less Willing to Undergo Joint Replacement Surgery: The Multicenter Osteoarthritis Study. American College of Rheumatology/ Association of Rheumatology Health Professionals. Platform Presentation. Annual Meeting, Washington DC
- Maxwell J, Niu J, **Keysor JJ**, Neogi T, Yang T, Nevitt MC, Singh JA, Frey-Law 2012  
 L, Felson DT. The Effect of Knee Replacement On Participation Outcomes: The Multicenter Osteoarthritis Study and Osteoarthritis Initiative. American College of Rheumatology/ Association of Rheumatology Health Professionals. Poster. Annual Meeting, Washington DC

- Keysor JJ**, Chang HJ, Yang T, Lewis CE, Nevitt MC, Felson DT. Factors Contributing to Black and White Differences in “Willingness” to Undergo Joint Replacement Surgery: The MOST Study. 2012 Summit on the Science of Eliminating Health Disparities. Poster. Baltimore, Maryland 2012
- Lyons, J.G., **Keysor, J.**, Heeren, T., Ensrud, K.E., Cawthon, P.M., Yaffe, K., Fredman, L. The association between physical performance measures and incident ADL/IADL limitations and mortality among older women: results from Caregiver SOF. Gerontological Society of America 64th Annual Scientific Meeting, Boston, MA. 2011
- Keysor JJ**, Zhang B, Torner JC, Lewis CE, Tolstykh I, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Community Mobility Barriers Predict 30-Month Participation Restriction: The MOST Study. American Physical Therapy Association, Combined Sections Meeting. New Orleans, LA 2011
- Keysor JJ**, Zhang B, Torner JC, Lewis CE, Tolstykh I, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Community Mobility Barriers Predict the Development of Disability over 30-Months: The MOST Study. Association of Rheumatology Health Professionals. Annual Meeting, Atlanta, GA 2010
- Keysor JJ**, Fredman, L, Zhang B, White DK, Torner JC, Lewis CE, Tolstykh I, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Positive Affect Predicts the Development of Disability over 30-Months: The MOST Study. Association of Rheumatology Health Professionals. Annual Meeting, Atlanta, GA
- White D, Zhang Y, Niu J, Felson D, **Keysor J**, Nevitt N, Lewis, LE, Torner J, Neogi T. Does it matter if both knees hurt? The effect of bilateral knee pain on functional limitation: The MOST Study American Physical Therapy Association. Combined Sections Annual Meeting, San Francisco, CA 2010
- White DK, Felson DT, Jette AM, Lewis CE, Torner JC, Nevitt MC, **Keysor JJ**, and the Multicenter Osteoarthritis (MOST) Study. Minimal Detectable Change in Functional Limitation and Disability Over 30 Months among Older Adults with Knee Pain. American Physical Therapy Association Combined Sections Meeting. Las Vegas 2009
- White DK, **Keysor JJ**, Jette AM, Lewis CE, Torner JC, Nevitt MC, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Better that matters. Frequency and predictors of meaningful functional improvements: The MOST Study. American Physical Therapy Association Combined Sections Meeting. Las Vegas 2009

- White D, Zhang Y, Niu J, Felson D, **Keysor J**, Nevitt N, Lewis, LE, Torner J, Neogi T. Do Worsening Knee Radiographs Mean More Chance of Poor Functional Outcome? The MOST Study. Association of Rheumatology Health Professionals. Annual Meeting, Philadelphia, PA 2009
- Allaire S, Baker N, **Keysor J**. Beliefs and Practices of Occupational and Physical Therapists About Their Role in Addressing the Health-Related Work Problems of Their Patients with Chronic Health Conditions. Association of Rheumatology Health Professionals. Annual Meeting, Philadelphia, PA 2009
- White, DK, **Keysor, JJ**, Jette, AM, Felson, DF et al. Elements of the environment are associated with less disability in older adults. American Physical Therapy Association, Combined Section Meeting, Nashville, TN 2008
- Keysor JJ**, White, DK, Prvu-Bettger J. The Environment-Disablement Link: Interpretation of the Evidence in Terms of Clinical Implications. PT Annual Conference & Exposition of the American Physical Therapy Association Annual Meeting, San Antonio, TX 2008
- Allaire S. **Keysor JJ**. Occupational and Physical Therapist (OT/PT) Use of a Structured Interview for Identifying and Forming Solutions to Patients' Rheumatic Condition (RC) Work Problems. Association of Rheumatology Health Professionals. Annual Meeting, San Francisco, CA 2008
- White DK, Felson DT, Jette AM, Lewis CE, Torner JC, Nevitt MC, **Keysor JJ**, and the Multicenter Osteoarthritis (MOST) Study. Minimal Detectable Change in Functional Limitation and Disability Over 30 Months among Older Adults with Knee Pain. Association of Rheumatology Health Professionals. Annual Meeting, San Francisco, CA 2008
- White DK, **Keysor JJ**, Jette AM, Lewis CE, Torner JC, Nevitt MC, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Better that matters. Frequency and predictors of meaningful functional improvements: The MOST Study. Association of Rheumatology Health Professionals. Annual Meeting, San Francisco, CA 2008
- White DK, **Keysor JJ**, Jette AM, Lewis CE, Torner JC, Nevitt MC, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Which Environmental Factors in the Community are Associated with Disability? Association of Rheumatology Health Professionals. Annual Meeting, Boston, MA 2007

- Keysor JJ**, LaValley MP, Jette AM, Lewis CE, Torner JC, Nevitt MC, Felson DT and the Multicenter Osteoarthritis (MOST) Study. Is the Community Environment Associated with Disability in Older Adults with Functional Limitations? Gerontological Society of America Scientific Meeting, San Francisco 2007
- Prvu Bettger JA, Coster WJ, **Keysor JJ**, Latham NK. Post-Acute Care Support and Health Service Environmental Factors Associated with Change in Personal Care and Instrumental Functional Activity Performance. Submitted to the 12th Annual North American Collaborating Center Conference on the International Classification of Functioning, Disability and Health (ICF). Vancouver, British Columbia 2006
- Prvu Bettger JA, Coster WJ, Latham NK, **Keysor JJ**. Post-acute care recovery patterns of personal care and instrumental functional activity performance. American College of Rehabilitation Medicine Annual Scientific Meeting. Boston, MA 2006
- Allaire S, Cochrane F, **Keysor JJ**. Full assessment of the work barriers experienced by employed persons with rheumatic disorders. Does the Work Experience Survey assess important work barriers for persons with rheumatic disorders? American College of Rheumatology and Association of Rheumatology Health Professionals Scientific Meeting. Washington DC 2006
- Keysor JJ**, LaValley MP, Jette AM, Lewis CE, Torner JC, Nevitt MC, Felson DT. Rural Environments Have More Barriers but Are Not Necessarily Associated with More Disability. American College of Rheumatology and Association of Rheumatology Health Professionals Scientific Meeting. Washington DC, 2006
- Prvu Bettger J, **Keysor J**, Coster W, Jette A. (2005). Do Environmental Factors Predict Home and Community Participation Post-acute Care. 82<sup>nd</sup> Meeting of the American Congress of Rehabilitation Medicine: Achieving Evidence-Based Rehabilitation. Chicago, Illinois 2005
- Prvu Bettger J, **Keysor J**, Coster W, Jette A. Home and Community Participation Outcomes Post-Acute Care: Role of the Environment. 11th Annual North American Collaborating Center Conference on the International Classification of Functioning, Disability and Health (ICF): Mapping the Clinical World to the ICF. Rochester, Minnesota 2005
- Keysor JJ**, Jette AM, LaValley MP, Lewis CE, Torner, JM, Nevitt MC, Felson DF. Is the Community Environment Associated with Disability in Adults with Functional Limitations? American College of Rheumatology and Association of Rheumatology Health Professionals Scientific Meeting. San Diego 2005

- Keysor JJ, Jette AM, Felson DT.** Is the Environment Related to Disability Among Older Adults? New England Building Interdisciplinary Research in Women's Health Meeting. University of Connecticut 2004
- Keysor JJ, Jette AM, Felson DT.** Gender Differences Regarding Relationships among Environment, Attitudes and Disability. Poster Presentation, National Institutes of Health. Building Interdisciplinary Research in Women's Health Symposium. Bethesda, MD 2004
- Keysor JJ, Haley SM, Jette AM.** Development and Pilot Test of a New Home and Community Assessment. 9<sup>th</sup> North American Collaborating Center on ICF. Washington University, St. Louis. MO 2003
- Keysor JJ, Crincoli M, Link C, Dunn JE, Felson D, McKinlay JB.** Association of Flat Feet and Toe Disorders with Physical Functioning in a Multi-Ethnic Community Sample. Gerontological Society of America 2002
- Keysor JJ, Kooyoomjian JT, Young D, Jette AM.** Elders' Attitudes and Beliefs Related to Disability: Pilot Test of a New Measure. Gerontological Society of America 2002
- Keysor JJ, Kooyoomjian JT, Jette AM.** Development of a Measure to Assess Elder's Attitudes Regarding Disability. Gerontological Society of America 2001
- Keysor JJ, DeVellis BM, Callahan LF, DeVellis RF, Jordan JM, Mutran EJ.** Emotions in Arthritis: Development of a New Measure. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting 2000
- Keysor JJ.** Self-management in Arthritis: The Role of Sociodemographic and Disease-related Factors. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting 2000
- Keysor JJ.** Self-management in Arthritis. Institute of Aging Exploratory Project Grants, University of North Carolina at Chapel Hill 1999
- Callahan LF, Currey SS, **Keysor JJ**, Uhrick DL, Jordan JM, DeVellis RF, Bernard SL, Konrad TR, DeFriesse GH. Exploration of Self-Management Practices among Persons with Rheumatoid Arthritis. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting 1999
- Callahan LF, **Keysor JJ**, Uhrick DL, O'Koon ML, Axtell EE, Taylor ML. Physicians' Attitudes Toward Alternative Therapies Related to Arthritis Care and Treatment. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting 1999

Pincus T, Callahan LF, <b>Keysor JJ</b> . Evidence-Based Predictors of Mortality Over 10 Years in Rheumatoid Arthritis: Age, Comorbidity, Male Sex, Poor Functional Status, And Rheumatoid Factor. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting	1999
<b>Keysor JJ</b> , Callahan LF, Uhrick D, Jonas E. Functional Activity-Related Self-Management Practices Among Persons with Rheumatoid Arthritis: The Role of Physical Disability. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting	1999
<b>Keysor JJ</b> , Pincus T, Callahan LF, Currey SS, Uhrick D. Associations of Lower Extremity Joints With 25-Foot Walk Time. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting	1999
<b>Keysor JJ</b> , Callahan LF, Pincus T. Self-Report Questionnaire Scores Predict 10-Year Mortality in 1416 Individuals with Rheumatoid Arthritis. American Public Health Association Annual Meeting	1998
<b>Keysor JJ</b> , Jordan JM, Callahan LF, DeVellis RF, Helmick C. Physical Disability in Community Dwelling Elderly Persons: The Role of Pain and Psychosocial Factors. American Public Health Association Annual Meeting	1998
<b>Keysor JJ</b> , Riegger-Krugh C. Physical Activity Recommendations for People Living with Knee Joint Arthritis. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting,	1997
<b>Keysor JJ</b> , Desai T, Mutran EJ. Elderly Peoples' Preferences for Home vs. Nursing Home Care after a Hypothetical Stroke. World Congress of Gerontology International Conference	1997
<b>Keysor JJ</b> , Riegger-Krugh C. Physical Activity Recommendations for People Living with Knee Arthritis. American Physical Therapy Association Annual Conference	1996
<b>Keysor JJ</b> , Silberman B. Continuous Quality Improvement. American Physical Therapy Combined Sections Meeting	1992

## **Invited Presentations**

### **International**

Expert Panel Session titled “Innovation and Business Opportunities in Digital Health Technology”, BSN2022, IEEE-EMBS International Conference on Biomedical and Health Informatics	2022
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- Staying at work: Work assessments and rehabilitative interventions for people with Inflammatory Arthritis, British Society of Rheumatology Annual Meeting, Birmingham, UK 2017
- Allaire SM, Keysor JJ. Capturing Work Disability and Barriers. British Society for Rheumatology and British Health Professions in Rheumatology, Rheumatology 2010 Scientific Meeting, Birmingham, United Kingdom 2010

## National

- Staying at work: Work assessments and rehabilitative interventions for people with Inflammatory Arthritis. American Association of Rheumatology Health Professions Annual Meeting, San Diego, CA 2017
- When Pain Gets in the Way: Overcoming Barriers to Physical Activity. International Council on Active Aging Conference. New Orleans, LA. 2015
- When Pain Gets in the Way: Overcoming Barriers to Physical Activity. International Council on Active Aging Conference. New Orleans, LA 2015
- Return to Work and Work Entry: What we know from research and practice. American College of Rheumatology/Association of Rheumatology Health Professionals Annual Meeting. San Francisco, CA, 2015
- Keysor JJ. Arthritis State of the Science Panel: Stakeholder Reflections and Next Steps. NIDRR Arthritis State of the Science Meeting, Pentagon City, VA 2014
- Keysor JJ. Community-based Interventions to Sustain Employment. NIDRR Arthritis State of the Science Meeting, Pentagon City, VA 2014
- Keysor JJ. Rheumatological Rehabilitation: How Are We Doing? NIDRR Arthritis State of the Science Meeting, Pentagon City, VA 2014
- Barriers to exercise adherence: Challenges and Opportunities to fostering adherence. In the Symposium: Exercise Adherence in Arthritis: The Role of Technology. American College of Rheumatology/Association of Rheumatology Health Professionals Scientific Meeting, Boston MA. 2014
- Environmental innovations to promoting exercise adherence. Symposium: Exercise Adherence in Arthritis: The Role of Technology. American College of Rheumatology/Association of Rheumatology Health Professionals Scientific Meeting, Boston MA. 2014
- Active Living with Arthritis: Participation, Environment, and Physical Activity. Arthritis, Bone and Disability Health Conference. Michigan Department of Public Health, Lansing, MI. 2011
- Physical Activity among Persons with Arthritis: Assessment, Considerations, and 2009



Behavior Change. Presentation: Association of Rheumatology Health Professionals

A Critical Look at the Benefits of Physical Activity on Disablement. Panel Member, Functional Limitation and Disability in Older Adults: Psychosocial and Behavioral Considerations. Gerontological Society of America, San Francisco 2007

How Does the Environment Influence Disability? Examining the Evidence. Institute of Medicine. 2005

Does Late-Life Physical Activity Prevent or Minimize Disablement? A Critical Review of the Scientific Evidence. Cooper Institute on Physical Activity and Disablement 2002

The Course of Aging and Physical Adaptation to Old Age. Facing Aging or Changing its Face, 9th Annual Symposium on Geriatric Research and Health Care Policy. Research and Training Institute of Hebrew Rehabilitation Center for Aged, Boston, MA 2001

Group Dynamics and Facilitation Skills. Collaborative Research: More than the Sum of its Parts. Panel Discussion. American College of Rheumatology and Association of Rheumatology Health Professionals Annual Scientific Meeting 1997

## **Regional**

Neurorehabilitation of Patients with COVID-19, Spaulding NeuroRehabilitation 2022

ElderCare: Promoting Activities from the Lens of Social and Behavioral Science, NSF ERC Connected Eldercare Seminar Series, MIT, Boston 2022

ExoBoot Bilateral Orthoses for Osteoarthritis Strength Training for People with Knee OA: A Proof of Concept and Feasibility Study.” NSF ERC for Connected ElderCare Planning Workshop 2022

Giacino, J., Waters, A., Chen, R., Andreu, M., Bergin, M., Keysor J., Bonato, P, Boudreau, N., Brown, L , Corey, K., Gottlieb, R. , O’Brien, A1 , Riepl, N. , Vergara- Diaz, G. , Borsi, L., Zafonte, R., & Bodien Y. MGH Neuroscience Research Day Panel Presentation and Participation: COVID Neuro Recovery 2021

Arthritis and Work: Prevalence, Risk Factors, and Interventions University of Connecticut School of Medicine, Department of Occupational Medicine, Farmington CT 2016

Return to work and Work Entry: What we know from research and practice American College of Rheumatology/Association of Rheumatology Health Professionals Annual Meeting San Francisco, CA 2015

Early Workplace and Psychosocial Risk Factors for Prolonged Work Disability for Patients with Low Back Pain- Can I Identify and Solve them in my Clinical Practice? New England College of Occupational and Environmental Medicine annual Meeting. Newton, MA	2015
Active living with Arthritis: Innovation of ENACT. American Physical Therapy Association Massachusetts Chapter Annual Meeting. Norwood, MA	2015
Arthritis Work Disability. Massachusetts Vocational Rehabilitation Conference. Boston, MA	2014
Arthritis: Medical, Management, and You. Myrtle Baptist Church, Newton, MA.	2012
Osteoarthritis: Medical, Management, and You. Arthritis Foundation Expo. Boston, MA	2012
Arthritis, Management and You. 12th Baptist Church, 150 Warren Street, Boston, MA	2012
Active Living with Arthritis: Beating the Barriers, St. Paul's African Methodist Episcopal Church, Cambridge, MA	2011
It Worked for Me! Real-life Stories about Thriving with Osteoarthritis. People's Baptist Church Consumer Forum: Arthritis vs. You: Who's Winning? Roxbury, MA	2011
Making it Fun: Physical Activity for Your Child with Arthritis—and the Family. Arthritis Foundation Massachusetts's Chapter, Worcester, MA	2010
Arthritis and Exercise: The Evidence, Special Considerations, and Broader Factors. Vermont Arthritis Coalition, Burlington, VT	2004
Keysor JJ. Bridging Public Health and Medicine: Opportunities in Health and Rehabilitation Science. Junior Pledge Ceremony. Keynote Address. Sargent College, Boston University, Boston, MA	2003
Late Life Exercise: What to Do, How to Do It, and How to Promote It. Faculty Summer Institute Workshop, Boston University Gerontology Center, Boston, MA	2001
Safe and Effective Physical Activity for Persons with Arthritis. Program on Aging, School of Medicine, University of North Carolina at Chapel Hill, NC	2000
Arthritis Self-Management: The Role of Age, Gender and Disability. Interdisciplinary Research Seminar, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA	2000
Osteoporosis Prevention and Management: The Role of Physical Activity. Rocky	1999

Mount, NC

Osteoporosis Prevention and Management: Nutritional Factors. Siler City, NC	1999
Arthritis Management: The Role of Exercise and Movement, The 74th Interdenominational Usher's Association of North Carolina: The Role of the Church in Promoting Health in the African American Community. Greensboro, NC	1999
Arthritis Management: Physical, Psychological and Social Aspects. Department of Psychology, Peace College, Raleigh, NC	1999
Obtaining Funding for Dissertation Projects: Panel Discussion. Department of Health Behavior and Health Education, University of North Carolina at Chapel Hill, Chapel Hill, NC	1998
Physical Activity Recommendations for People Living with Knee Arthritis. Seminar on Aging, University of North Carolina at Chapel Hill, Chapel Hill, NC	1996
The Neurological Patient in the Home Setting. Graduate Program in Physical Therapy, Duke University, Durham, NC	1995
Physical Therapy Intervention in the Home Setting. Division of Physical Therapy, University of North Carolina at Chapel Hill, Chapel Hill, NC	1995
Comprehensive Management of Young Adults Living with Tibiofemoral Osteoarthritis. North Carolina Physical Therapy State Chapter Meeting. Research Triangle Park, NC	1995
The Neurological Patient in the Home Setting. Graduate Program in Physical Therapy, Duke University, Durham, NC	1994
Physical Therapy Management of Patients Who Have Parkinson's Disease. Division of Physical Therapy, University of North Carolina at Chapel Hill, Chapel Hill, NC	1994
Physical Therapy Management of Patients Who Have Parkinson's Disease. Division of Physical Therapy, University of North Carolina at Chapel Hill, Chapel Hill, NC	1993
Using Continuous Quality Improvement to Improve Bracing of the Neurological Foot. Duke University Medical Center, Durham, NC	1993

## **Educational Activities**

### **Courses Taught**

Promoting Adherence in Physical Therapy, MGH Institute of Health Professions	2020-22
Health Policy, Practice Management and Leadership, MGH Institute of Health Professions	2020-22
Evidence-Based Practice, MGH Institute of Health Professions	2020-22
Contextual Factors in Physical Therapy	2020
Foundations of Education and Health Promotion, Doctor of Physical Therapy Program, Boston University	2016
Doctoral Seminar: Conceptual Models of Disablement and Enablement. PhD in Rehabilitation Science Program Boston University	2010, 2015, 2017
Education Theory and Practice. Doctor of Physical Therapy Program, Boston University	2001, 2010
Health Promotion and Wellness (Online course). Transitional Doctor of Physical Therapy Program, Boston University	2003- 2013
Functional Aspects of Aging. Doctor of Physical Therapy Program, Boston University	2003
Health Promotion and Wellness. Doctor of Physical Therapy Program, Boston University	2001, 03, 07
Organization and Delivery of Health Care in the United States, Boston University	2000-01
Teaching Assistant: Small group leader for a graduate level course in behavioral and sociological foundations of health education for non-majors.	1998
Teaching Assistant: Social and Behavioral Foundations of Health. School of Public Health, University of North Carolina at Chapel Hill	1996-97

## **Mentoring**

### **Post-Doctoral**

Dan White, Project: Disability and the Environment; Pain and Function University of Delaware	2008-09
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### **PhD/ScD Trainees**

Paulo Teixeira, MGH Institute of Health Professions, PhD in Rehabilitation Science Student, Role: Academic Advisor	Current
Eric Roseen, MGH Institute of Health Professions, PhD in Rehabilitation Science Student, Role: Academic Advisor	Current
Julie Shulman. Assessment of Pain and Disability in Youth with Chronic Pain. Dissertation completed to fulfill PhD requirements at MGH Institute of Health Professions. Academic Advisor and Committee Chair	2018-2019
Chris Joyce. Advancing the National Pain Strategy in Physical Therapy Research and Practice. Dissertation completed to fulfill PhD requirements at MGH Institute of Health Professions. Academic Advisor and Committee Chair	2018-2020
Ledingham A. Promoting Sustained Strength Training Exercise Performance for Adults with Knee Osteoarthritis: A New Look. Dissertation completed to fulfill PhD requirements at Boston University. Mentor and Committee Chair	2012-17
Vaughan M. The Impact of Contextual Factors on Participation Restriction of Adults with or at Risk of Knee Osteoarthritis. Dissertation completed to fulfill PhD requirements at Boston University. Mentor and Committee Chair	2012-16
AlHeresh R. A Critical Look at Measurement of Work Outcomes for People with Arthritis. Dissertation completed to fulfill PhD requirements at Boston University. Mentor and Committee Chair	2011-15
Demor-Taber, M. Mammography screening among women with disabilities: Perspectives on underutilization. Dissertation completed to fulfill ScD requirements at Boston University. Committee Member. 2nd Reader	2010
Prvu Bettger, J. Improvement and decline in personal care and instrumental functional activity performance: Patterns and predictive factors. Dissertation completed to fulfill ScD requirements at Boston University. Committee Member, 1st Reader	2006
Dacey, ML. Physical Activity Motivation across Stages of Change in Older Adults. Dissertation completed to fulfill EdD requirements at Boston University. Committee Member, 2nd Reader	2003

**PhD/ScD Dissertation External Reviewer**

Kelsi Carolan. Working with Parkinson's Disease: Unpacking how Support and Stigma Influence Employment Options After the Onset of a Progressive Disease. Dissertation completed to fulfill PhD requirements at Boston University. External Committee Member	2020
Kelly Cotter. No Strain, No Gain: An Application of Social Cognitive Theory	2008

to Physical Activity across the Lifespan. A Dissertation Presented to the Faculty of the Graduate School of Arts and Sciences, Brandeis University, Social/Developmental Psychology.

### **Mentored Funded Master of Science Projects**

Tianzhong Yang, Masters of Public Health in Biostatistics candidate, Boston University School of Public Health; Recipient: Boston University Allan Meyers Fellowship in Disability Studies 2011  
Project: Longitudinal Study to Examine the Association between Environmental Features of the Environment at Baseline and the Development of Disability

### **Professional Memberships and Activities**

American Physical Therapy Association, Geriatrics Section; Education Section, Research Section	1987-present
American Physical Therapy Association, Massachusetts Association	2001-present
Gerontological Society of America	2001-2017
Association of Rheumatology Health Professions	1997-present
Arthritis Foundation	1997-present
North Carolina Physical Therapy Association	1988-2000
American Council of Academic Physical Therapy (ACAPT) member, Representing MGH Institute of Health Professions	2018-2019
Arthritis Today Medical Advisory Panel	2017-2019
Member, Research Intensive Physical Therapy Programs, Consortium, American Council of Academic Physical Therapy, Boston University Faculty member	2014-
Chair (elected), Physical Activity Work Group, Osteoarthritis Action Alliance (OAAA), a national coalition of 50 community members aiming to implement the national OA Action Plan	2014-2016
OAAA Steering Committee, Member	2014-2016

### **Editorial Boards**

None

## **Federal, National and Institutional Service**

### **Federal**

NIAMS Data and Safety Monitoring Board; Fibromyalgia TENS in Physical Therapy Study (TIPS): an Embedded Pragmatic Trial	2020-pres
ARHP Technical Expert Panel; ARHQ Evidence-based Practice Center report: Osteoarthritis of the Knee Update: Treatment of Primary and Secondary Osteoarthritis of the Knee	2016
Chair (elected), National Osteoarthritis Action Alliance, Physical Activity Work Group	2013-2016
Osteoarthritis Action Alliance. National alliance of over 50 constituents consisting of research, policy, and consumers. Invited Member	2011-2016
Invited member of the Massachusetts's Department of Public Health Elder Falls Commission Education Task Group	2013
Centers of Disease Control and Prevention/Arthritis Foundation Physical Activity Task Force Expert Panel. Invited Member.	2011-2012

### **Foundation**

Member, Rheumatology Research Foundation Scientific Advisory Council, American College of Rheumatology	2011-2015
Abstract Proposal Reviewer, American Physical Therapy Association	2009-2011
Member, Classification and Response Criteria Subcommittee, American College of Rheumatology	2009-2011
American Physical Therapy Association, Section on Education. National Task Force on Health Promotion and Wellness	2007
Advisory Council for Daily Activity, Arthritis Foundation	1997

### **Advisory Boards**

Altec Inc, Natick, MA	<b>2020-Current</b>
Member, Advisory Board Advanced Rehabilitation Research and Training Awards, National Institute on Disability and Rehabilitation Research, PI:	<b>2014-2018</b>

Rodgers S, Center for Psychiatric Rehabilitation, Boston University

Steering Committee, Osteoarthritis Action Alliance, Member

**2014-  
2016**

### **Study Sections**

Centers of Disease Control and Prevention 2021

Arthritis Research Dutch Peer Review 2016

Arthritis Research UK Peer Review 2015

Canadian Arthritis Society 2014

Danish Strategic Research Fund 2014

Arthritis Foundation, Innovative Research Grant and Arthritis Foundation  
Investigator Award 2013

Department of Defense, Arthritis Technology Therapeutic Development  
Awards 2012

Arthritis Foundation, Doctoral Dissertation Grant Review Section 2009-  
2010

Arthritis Foundation, Ad Hock Reviewer 2006

Arthritis Foundation, Grant Review Section 2010-  
2014

Arthritis Foundation, Grant Review Section 2004-  
2004

### **Institution**

Coordinator, MGH Institute of Health Professions, Grant Writers Work Group 2020-  
pres

Research Operations Committee, MGH Institute of Health Professions,  
member 2018-  
pres

Executive Committee, PhD in Rehabilitation Science, MGH Institute of  
Health Professions, member 2018-  
pres



Promotions and Tenure Committee, Sargent College, Boston University	2014-2017
Committee Co-Chair, Associate/Full Professor in Rehabilitation Science Search Committee (Candidate selected by committee and moved forward to Dean)	2012-2013
PhD Program in Rehabilitation Science Steering Committee, member	2011-2016
Academic Advisory Counsel, Sargent College of Health and Rehabilitation Science, Boston University	2007-2008
PhD Program in Rehabilitation Sciences, faculty member, Boston University	2003-2017
Online post-professional education, faculty member, Boston University	2003-2013
Member, Sargent College Undergraduate Education Committee, Sargent College of Health and Rehabilitation Sciences	2001-2003

## Department

IHP Doctor of Physical Therapy Program, Awards Committee	2021-pres
IHP Doctor of Physical Therapy Program, Outcomes Committee	2021-pres
Faculty Scholarship Committee, Physical Therapy Department, MGH Institute of Health Professions, Chair	2019-pres
Committee Chair, Department of Physical Therapy and Athletic Training, Chair search (Successful Search)	2015-2016
Committee Chair, Neurological Assistant Professor in Physical Therapy Search (Successful Search)	2011-2012
Coordinator, Code RED (Research and Education Development) seminars in Department of Physical Therapy and Athletic Training	2007-2010
Member, Search Committee for Department of Physical Therapy and Athletic Training Chair/Senior Faculty Member	2008-2010
Member, Task Force Practicum Course Evaluation and Recommendation, Department of Physical Therapy and Athletic Training, Boston University	2007
Member, Task Force Clinical Medicine Seminar Series, Department of	2004

Physical Therapy and Athletic Training, Boston University	
Student Orientation Committee, Department of Health Behavior and Health Education, Student Member, University of North Carolina at Chapel Hill	1997
Advanced Education Committee, Department of Human Movement Science, Student Member, University of North Carolina at Chapel Hill	1994
Interdisciplinary Head Injury Task Force (Coordinator), Duke University Medical Center Rehabilitation Unit	1993
National Student Conclave (Coordinator), University of Vermont	1987
Physical Therapy Student Association (President), University of Vermont	1987

### **Community Service**

Juvenile Arthritis National Conference Co-chair, Teen programming committee member, Conference planning committee	2022
Juvenile Arthritis National Conference, Teen Programming Planning Committee Member	2021
Juvenile Arthritis National Conference Co-chair, Opening Welcome Program Committee member, middle school programming committee	2017
Volunteer Day Events: Hope Valley Golf Tournament, Jingle Bell Run	1998, 1999, 2017
Arthritis Foundation; Team Captain & Co-Captain; These Joints Are Walking, Boston University, Boston, MA	2007- 2013
Arthritis Foundation Member, Advisory Council, Cary, NC	1997- 1999
Arthritis Foundation Chair, Advisory Council, Cary, NC	1998- 1999
Arthritis Foundation, Co-Chair, Joints Are Rockin', Cary, NC	1999, 2000
Carolinas Chapter, Eastern Region, Cary, NC	1998- 2000

