

# Curriculum Vitae

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**Peggy P. Barco**

## **Contact Information**

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## **Present Position**

2023 – Present      Professor, Program in Occupational Therapy and Department of Medicine  
Washington University School of Medicine, St. Louis, MO

## **Education**

### **Undergraduate**

1981                      BS; Social Work, University of Missouri, Columbia, MO

1984                      BS; Occupational Therapy, Washington University School of Medicine, St. Louis,  
MO

### **Graduate**

1987                      MS; Occupational Therapy, Washington University School of Medicine, St. Louis,  
MO

2013                      Doctor of Occupational Therapy; Washington University School of Medicine, St.  
Louis, MO

## **Academic Positions/Employment**

1994 – 2005              Adjunct Faculty  
Program in Occupational Therapy  
St. Louis University, St. Louis, MO

2006 – 2007              Adjunct Faculty  
Program in Occupational Therapy  
Washington University School of Medicine, St. Louis, MO

2007 – 2014              Instructor  
Program in Occupational Therapy and Department of Medicine, Washington  
University School of Medicine, St. Louis, MO

## Curriculum Vitae

- 2015 – 2019      Assistant Professor  
Program in Occupational Therapy and Department of Medicine, Washington  
University School of Medicine, St. Louis, MO
- 2019 – 2023      Associate Professor  
Program in Occupational Therapy and Department of Medicine  
Washington University School of Medicine, St. Louis, MO
- 2023 – Present    Professor  
Program in Occupational Therapy and Department of Medicine  
Washington University School of Medicine, St. Louis, MO

### **Clinical Title and Responsibilities**

- 1984 – 1986      Staff Occupational Therapist  
Burn Unit and Acute Medical at Irene Walter Johnson Institute of Rehabilitation  
Washington University Medical Center, St. Louis, MO
- 1986 – 1988      Program Specialist  
Head Injury Resource Center at Irene Walter Johnson Institute of Rehabilitation  
Washington University Medical Center, St. Louis, MO
- 1988 - 1989      Assistant Clinical Director  
Head Injury Resource Center at Irene Walter Johnson Institute of Rehabilitation  
Washington University Medical Center, St. Louis, MO
- 1989 – 1990      Acting Clinical Director  
Head Injury Resource Center AT Irene Walter Johnson Institute of Rehabilitation  
Washington University Medical Center, St. Louis, MO
- 1990 – 2005      Program Case Manager/Team Leader  
Head Injury Resource Center and Rehabilitation Driving Coordinator  
St. John's Mercy Medical Center, St. Louis, MO
- 2005-2010      Administrative Director of Medical Services  
The Center for Head Injury Services, St. Louis, MO
- 2007 – 2019      Coordinator and Clinician: Driving Connections: A Collaboration between  
Washington University School of Medicine, The Rehabilitation Institute of St.  
Louis, and Independent Drivers, LLC.
- 2019 – Present    Developing and implementing a Comprehensive Driving Evaluation Program for  
varied medical conditions in collaboration with Washington University  
Occupational Therapy Community Practice

### **Teaching Title and Responsibilities**

Washington University School of Medicine

## **Curriculum Vitae**

2007	Lab Instructor, OT5833: Communication Skills for OT Mental Health
2008	Co-Course Director, OT5421: Applied Clinical Research I
2009 – 2011	Co-Course Director, OT5223: Medical and Mental Health Conditions
2013 – 2019	Course Director, OT 5835: Interventions Supporting Recovery and Participation in Individuals with Cognitive and Learning Challenges (3 credits)
2015 – 2020	Mentor, OT 605: Applied Clinical Practice I
2015 – 2020	Mentor, OT 606: Applied Clinical Practice II
2015 – 2020	Mentor, OT 607: Applied Clinical Practice III
2016 – 2020	Mentor, OT608: Applied Clinical Practice IV
2020 – Present	Couse Co-Director, MO1 642 Evaluation and Intervention: Adults and Older Adults 1 (6 credits)
2020 – 2023	Course Director, OT682 Translational Science in Action (3 credits)
2021 – present	Mentored Scholarship, OT 658,648,658
2024	Instructor, MO1 626 Professional Identity and Practice II

### **University, School of Medicine, and Hospital Appointments and Committees**

2007 –2009	Member, Fieldwork Committee, Washington University School of Medicine Program in Occupational Therapy
2010 – 2015	Member, Scholarship Committee Washington University School of Medicine Program in Occupational Therapy
2010 – 2019	Member, Admissions Committee Washington University School of Medicine Program in Occupational Therapy
2011 – 2013	Member, Curriculum Revision Committee for Intervention Courses Washington University School of Medicine Program in Occupational Therapy
2015 – 2016	Member, Diversity and Inclusion Committee, Washington University School of Medicine, Program in Occupational Therapy
2016 – Present	Member, Continuing Education Committee Washington University School of Medicine, Program in Occupational Therapy
2017 – 2020	Facilitator, The Center for Inter-Professional Practice and Education Washington University School of Medicine
2019 – 2023	Member, CIPE Curriculum and Assessment Committee

## **Curriculum Vitae**

Washington University School of Medicine

- 2020 – Present    Co-Chair, Curriculum Committee  
Washington University School of Medicine Program in Occupational Therapy
- 2023 – Present    Co-Chair, Competency Attainment Committee  
Washington University School of Medicine Program in Occupational Therapy

### **Medical Licensure and Certifications**

- 1985 – Present    Registered Occupational Therapist  
License number: AA299321
- 1999 – Present    Occupational Therapy Licensure, State of Missouri  
License number: 004941
- 2013 – Present    Specialty Certification, Driving and Community Mobility  
American Occupational Therapy Association
- 2015 – Present    Driving Rehabilitation Specialist Certification, Association of Driving  
Rehabilitation Specialists  
Certification number: 316

### **Honors and Awards**

- 1981                Graduated Magna Cum Laude, Bachelor of Social Work, University of Missouri  
Columbia
- 1992                Employee of the Month, St. John’s Mercy Medical Center
- 1993                YMCA Working Women of Achievement Award
- 1997                Spirit of Excellence Award, Brain Injury Association of Missouri
- 2007                Roberta Sheldon Award for Prevention and Education in Brain Injury, Brain Injury  
Association of Missouri
- 2013                OTD with high honors; Washington University School of Medicine, Program in  
Occupational Therapy
- 2013                AOTA Service Commendation; Member Driving and Community Mobility Phase II  
Panel
- 2013                2013 Jerome Ely Human Factors Article Award for best article in 2012 volume of  
Human Factors: “Naturalistic Validation of an On - Road Driving Test of Older  
Drivers

## **Curriculum Vitae**

- 2017 Roster of Fellows Award in Advancement of Driving Rehabilitation Practice; The American Occupational Therapy Association
- 2021 Named to the Honor Roll of Academy of Educators at Washington University in St. Louis, School of Medicine
- 2023 Credentialed Leader in Academia, The American Occupational Therapy Association  
Successful completion of 2022-23 Academic Leadership Institute
- 2023 Scholar Award for Outstanding Scholarly Achievement in Driving Evaluation, Research, and/or Engineering, The Association for Driver Rehabilitation Specialists (ADED)

### **Editorial Responsibilities**

- 2014 Practice Standards Review for Driving and Community Mobility  
American Occupational Therapy Association
- 2015 Guest Reviewer  
American Journal of Occupational Therapy
- 2015 Guest Reviewer  
Canadian Journal of Occupational Therapy
- 2016 Guest Reviewer  
Occupational Therapy Journal of Research (OTJR)
- 2018 Guest Reviewer  
Occupational Journal of Research (OTJR 18-0037)
- 2018 Guest Reviewer  
Accident Analysis and Prevention (AAP-D-18-00498)

### **Community Service Contributions**

#### **Professional Societies/Organizations**

- 1981 – 1986 National Association of Social Workers
- 1984 – 1988 American Congress of Physical and Rehabilitation Medicine
- 1984 – Present Missouri Occupational Therapy Association
- 1984 – Present American Therapy Occupational Therapy Association
- 2016 – Present Association of Driving Rehabilitation Specialists (ADED)

### **Consulting Relationships and Board Memberships**

- 1990 – 1992 Board of Directors

## Curriculum Vitae

	Academy for Head Injured Adults
1991 – 1996	Board of Directors Missouri Head Injury Association
1995	Fourth Vice President, Board of Directors Missouri Head Injury Association
1996	Member, Program Development Committee Brain Injury Association of Missouri
2003 – 2006	Member, Information and Referral Committee Brain Injury Association of Missouri
2006 – Present	Member, Conference Planning Committee Brain Injury Association of Missouri
2009 – 2010	Driving Rehabilitation Consultant Alzheimer's Disease & Memory Disorders Center, Rhode Island Hospital
2012 – 2013	Member AOTA Driving and Community Mobility Sub-Committee to Revise Specialty Certification
2013 – 2016	Member AOTA Board of Advanced and Specialty Certification (BASC), Specialty for Driving and Community Mobility
2015 – 2016	Consultant Traffic Injury Research Foundation (TIRF), Ottawa, ON, Canada
2016 – Present	Volunteer Consultant AOTA – Board and Specialty Certification (BASC)
2016 – Present	Consultant, University of Illinois Chicago (Engage-IL HRSB Grant) Inter-Professional Geriatrics Training Program: Driving Safety of the Older Adult
2016 – Present	Volunteer Consultant AOTA – Board and Specialty Certification (BASC)
2017	Consultant Medscape/Web MD
2017	Expert Panel Consultant, Visual Scanning Training for Older Drivers, USDOT/NHTSA project, Philadelphia, PA
2017 – 2023	Consultant, Development and implementation of a driving rehabilitation program University of Missouri at Columbia

### **Research Support**

## Curriculum Vitae

### Governmental Past

- 2007 – 2008 Missouri Department of Transportation (MODOT), 08-PT-02-142, “Fitness to Drive in Older Adults.”  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (20%).
- 2008 – 2009 Missouri Department of Transportation (MODOT), 09-PT-02-162, “Fitness to Drive in Older Adults.”  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (20%).  
\$70,000
- 2009 – 2010 Missouri Department of Transportation (MODOT), 10-PT-02-152, “Fitness to Drive in Older Adults.”  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (35%).  
\$152,340.30
- 2010 – 2011 Missouri Department of Highways and Transportation (MoDOT), 11-DL-02-2, “Fitness to Drive in Older Adults II.”  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (20%).  
\$88,517
- 2011 –2012 Missouri Department of Highways and Transportation (MoDOT), 12-DL-02-001, “Expanding Medical Fitness to Drive.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (33%).  
Co-Investigator: David Carr, MD; Washington University School of Medicine, Department of Internal Medicine.  
\$109,999.00
- 2012 – 2013 Missouri Department of Highways and Transportation (MoDOT), 13-DL-02-001, “Expanding Medical Fitness to Drive.”  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (35%)  
\$117,553.00
- 2013 – 2014 Missouri Department of Highways and Transportation (MoDOT), 14-DL-02-002), “Expanding Medical Fitness to Drive.”

## Curriculum Vitae

Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (20%)  
Co-Investigator: David Carr, MD; Washington University School of Medicine, Department of Internal Medicine.  
\$83,809.78

- 2012 – 2015 National Institutes of Health (NIH), R01 AG043434, “Driving Performance in Preclinical Alzheimer’s Disease.”  
Principal Investigator: Cathy Roe, PhD; Washington University School of Medicine, Department of Neurology  
Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (40-58%).  
\$2,383,459.00
- 2014 – 2015 Missouri Department of Highways and Transportation (MoDOT), 15-DL-02-003, “Expanding Medical Fitness to Drive.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (30%).  
\$96,453.00
- 2015 – 2016 Missouri Department of Highways and Transportation (MoDOT,) 16-DL-02-003, “Expanding Medical Fitness to Drive Training Validation Study, Part II.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (30%).  
\$127,875.00
- 2016 – 2017 Missouri Department of Highways and Transportation (MoDOT), 17-DL-02-001, “Standardizing the Traffic Sign Naming Test.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (35%).  
\$137,901.00
- 2015 – 2018 National Institute of Mental Health (NIMH/OBSSR), R01MH099011 “Enhanced Medical Rehabilitation for Older Adults.”  
Principal Investigator: Eric Lenze, MD; Washington University School of Medicine, Department of Psychiatry  
Investigator Peggy Barco, OTD/L, BSW, OTR/L, Washington University School of Medicine, Program of Occupational Therapy (20%).  
\$3,137,862.00
- 2017 – 2018 Missouri Department of Highways and Transportation (MoDOT), 18-DL-02-001, “Driving Safety Predictors.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, FAOTA, Washington University School of Medicine, Program in Occupational Therapy (15 - 35%).  
\$140,472.31
- 2018 – 2019 Missouri Department of Highways and Transportation (MoDOT), 19-DL-02-001, “Rural Driving Study and Traffic Signs.”

## Curriculum Vitae

- Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, FAOTA, Washington University School of Medicine, Program in Occupational Therapy (25%).  
\$157,078.91
- 2019 JCA Charitable Foundation  
“Driving Retirement Workshop”  
Principal Investigator: Patricia H. Creel, PT, DPT, NCS, Program Coordinator  
Consultant: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, FAOTA, American Parkinson Disease Association-Greater St. Louis Chapter.  
\$4,840
- 2019 – 2020 Missouri Department of Highways and Transportation (MoDOT), 20-DL-02-001, Competitive Continuation Grant “Rural Driving Study and Traffic Signs.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (25%).  
\$183,740.91
- 2015 – 2021 National Institutes of Health (NIH), RO1ETO26199, “At-Risk Driving and Compensatory Strategies in Older Adults with Glaucoma.”  
Principal Investigator: Anjali Bhorade, MD, MSCI; Washington University School of Medicine, Department of Ophthalmology and Visual Sciences  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (30-40%).  
\$2,541,898.00
- 2020 – 2021 Missouri Department of Highways and Transportation (MoDOT), 21-DL-02-001, Competitive Continuation Grant “Rural Driving Study and Traffic Signs.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (20%).  
\$185,492
- 2021-2022 Missouri Department of Highways and Transportation (MoDOT), 22-DL-02-001, Competitive Continuation Grant “Rural Driving Study and Traffic Signs.”  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (15-20%).  
\$130,000
- 2018 – 2024 Craig H. Neilsen Foundation  
#542448, “Patient Engagement Intervention in Inpatient Spinal Cord Rehabilitation.”  
Principal Investigator: Wing Kai “Alex” Wong, PhD, Washington University School of Medicine, Program in Occupational Therapy  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (1-25%).  
\$199,943.00
- 2022 – 2023 Missouri Department of Highways and Transportation (MoDOT), 23-DL-02-001, Competitive Continuation Grant “Sharing Knowledge: Older Drivers.”

## Curriculum Vitae

Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (15-20%).  
\$150,000

### Non-governmental

#### Past

- 2007 – 2008 “Fitness to Drive in Neurologically Impaired Older Adults,” Longer Life Foundation (LLF).  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (10%).
- 2008 – 2009 “Fitness to Drive in Neurologically Impaired Older Adults,” Longer Life Foundation (LLF).  
Principal Investigator: David Carr, MD, Washington University School of Medicine, Department of Internal Medicine.  
Co-Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy (6.25%)  
\$16,000
- 2019 “Driving Retirement Workshop,” JCA Charitable Foundation  
Principal Investigator: Patricia H. Creel, PT, DPT, NCS, Program Coordinator, American Parkinson Disease Association – Greater St. Louis Chapter  
Consultant (paid): Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy  
\$4,840

#### Present

- 2016 – Present Washington University Driving and Research Center Repository, Washington University Program in Occupational Therapy, Program Funds  
Principal Investigator: Peggy Barco, OTD, OTR/L, SCDCM, CDRS, Washington University School of Medicine, Program in Occupational Therapy

### Trainee/Mentee/Sponsorship Record

#### Supervised/Mentored Master’s Student Projects

- 2007 – 2009 Tunistra, S. *Personal Digital Assistant Assessment Battery and Training Protocol as a Memory Compensation for Individuals with Traumatic Brain Injury*
- 2007 – 2009 Paskell, T. *Development of a Post Driver Evaluation Survey: Mobility Counseling and Depression*
- 2009 – 2011 Merelos, A. *Clinical Predictors of Driving Performance in Parkinson’s Disease*
- 2014 – 2016 Rosen, J. *Video Training to Improve Scoring Methodology in Driving Assessments*
- 2014 – 2016 Krenk, C. *Video Training to Improve Scoring Methodology in Driving Assessments*

## Curriculum Vitae

- 2015 – 2017 Hathaway, C. *The Development of On-Line Training Modules to Train Clinicians in the Standardized Scoring of Driving Errors*
- 2015 – 2017 Bateman, K. *The Development of On-Line Training Modules to Train Clinicians in the Standardized Scoring of Driving Errors*
- 2017 – 2019 Scelfo-Dalbey, C. *Can Performance-Based Functional Screens Differentiate On-Road Test Performance in Individuals with Dementia*
- 2017 – 2019 Kawamoto, D. *Using a Performance-Based Route-Finding Task in Evaluations for Drivers with Dementia*
- 2017 – 2019 Israel, S. *Designing an On-Road Assessment Route to Approximate Features for Drivers with Dementia*
- 2018 – 2020 Whitaker, E. *Inter-rater Reliability of the Modified Executive Function Route-finding Task*
- 2018 – 2020 McNeel-Moore, S. *Quality Assurance of a Driving Retirement Program for Parkinson's Disease*

### Supervised/Mentored Doctoral Student Apprenticeships

- 2006 Shefman, J. *Doctoral Apprenticeship: Program Development with TBI*
- 2015 Croston, J. *Doctoral Apprenticeship: Driving Evaluation*
- 2015 Burch, K. *Doctoral Apprenticeship: Teaching*
- 2016 Ball, K. *Doctoral Apprenticeship: Teaching*
- 2016 – 2019 Daws, C. *Community Participation after Recommended Driving Retirement in Older Adults with Dementia*
- 2017 – 2020 Bishop, E. *Community Mobility after Driving Cessation for Adults with Dementia and their Caregivers*
- 2019 Daws, C. *Doctoral Apprenticeship: Driving Evaluation and Scholarly Writing (3 weeks)*  
Faculty Mentor for Capstone Experience
- 2018 – 2021 Teslow, R. *Exploration of an Online Training Program to Measure on-Road Driving Errors; Faculty mentor for Capstone Experience*  
Faculty Mentor for Capstone Experience
- 2018 – 2021 Rindner, R. *Reliability of a Performance Based Screening Tool for Occupational Therapists to Identify Fitness to Drive in Persons with Dementia*  
Faculty Mentor for Capstone Experience

## Curriculum Vitae

- 2019 – 2021 Brostoff, B. *On the RODE Again: Efficacy of the record of Driving Errors (RODE) Online Training Course*
- 2019 – 2021 Reindl, Rachel. *Reliability of the Complex Medication Management Task (CMMT)*  
Faculty Mentor for Capstone Experience
- 2021 – 2022 Freedman, Jacqueline. *Driving Performance & Perceptions in Older Adults with Glaucoma*  
Faculty Mentor for Capstone Experience
- 2021 - 2022 Castro, Alyssa. *Driving Performance & Perceptions in Older Adults with Glaucoma*  
Faculty and Site Mentor for Capstone Experience (May thru August 2023)
- 2022 - 2023 Christensen, Nikki. *Efficacy of the Complex Medication Management Task in Determining Fitness to Drive in Adults Diagnosed with Dementia*  
Faculty Mentor for Capstone Experience
- 2022 – 2023 Wallis, Megan. *Driving with a Right Below-Knee Lower Extremity Amputation: Preferences and Abilities*  
Faculty Mentor for Capstone Experience
- 2022 – 2023 Rogers, Christine. *Repository for Washington University Driving and Research Center (WUDRC)*  
Faculty Mentor for Capstone Experience
- 2023 - 2024 Clements, Katie. *Driving Preferences and Performance after Lower Extremity Amputations*  
Faculty Mentor for Capstone Experience
- 2023 – 2024 Mansouri Raven. *Driving Preferences and Performance after Lower Extremity Amputations*  
Faculty Mentor for Capstone Experience
- 2024 – 2025 Deyhle, Grace. *Driving with Bioptic Telescopes: Increasing Knowledge and Informing Needs of Services to Ensure Safer Community Mobility.*  
Faculty Mentor for Capstone Experience
- 2024 - 2025 Hackworth, Melanie. *Driving with Bioptic Telescopes: Increasing Knowledge and Informing Needs of Services to Ensure Safer Community Mobility.*  
Faculty Mentor for Capstone Experience

### **Patents/ Copyright**

Record of Driving Errors (RODE) ©Barco, 2007

### **Bibliography**

**Original, peer reviewed articles in refereed journals**

## Curriculum Vitae

1. Crosson, B., **Barco, P. P.**, Velozo, C. A., Bolesta, M. M., Cooper, P. V., Werts, D., & Brobeck, T. C. (1989). Awareness and compensation in postacute head injury rehabilitation. *Journal of Head Trauma Rehabilitation, 4*(3), 46-54. <https://doi.org/10.1097/00001199-198909000-00008>
2. Carr, D. B., **Barco, P. P.**, Wallendorf, M. J., Snellgrove, C. A., & Ott, B. R. (2011). Predicting road test performance in drivers with dementia. *Journal of the American Geriatrics Society, 59*(11), 2112-2117. <https://doi.org/10.1111/j.1532-5415.2011.03657.x>
3. \*Ott, B. R., Papandonatos, G. D., Davis, J. D., & **Barco, P. P.** (2012). Naturalistic validation of an on-road driving test of older drivers. *Human Factors, 54*(4), 663-674. <https://doi.org/10.1177/0018720811435235>
4. Meuser, T. M., Berg-Weger, M., Niewoehner, P. M., Harmon, A. C., Kuenzie, J. C., Carr, D. B., & **Barco, P. P.** (2012). Physician input and licensing of at-risk drivers: A review of all-inclusive medical evaluation forms in the US and Canada. *Accident Analysis and Prevention, 46*, 8-17. <https://doi.org/10.1016/j.aap.2011.12.009>
5. Hetland, A. J., Carr, D. B., Wallendorf, M. J., & **Barco, P. P.** (2014). Potentially driver-impairing (PDI) medication use in medically impaired adults referred for driving evaluation. *Annals of Pharmacotherapy, 48*(4), 476-482. <https://doi.org/10.1177/1060028014520881>
6. Aufman, E. L., Bland, M. D., **Barco, P. P.**, Carr, D. B., & Lang, C. E. (2013). Predictors of return to driving after stroke. *American Journal of Physical Medicine and Rehabilitation, 92*(7), 627-634. <https://doi.org/10.1097/PHM.0b013e318282bc0d>
7. \***Barco, P. P.**, Wallendorf, M. J., Snellgrove, C. A., Ott, B. R., & Carr, D. B. (2014). Predicting road test performance in drivers with stroke. *American Journal of Occupational Therapy, 68*(2), 221-229. <https://doi.org/10.5014/ajot.2014.008938>
8. \***Barco, P. P.**, Carr, D. B., Rutkoski, K., Xiong, C., & Roe, C. M. (2015). Interrater reliability of the Record of Driving Errors (RODE). *American Journal of Occupational Therapy, 69*(2). <https://doi.org/10.5014/ajot.2015.013128>
9. \***Barco, P. P.**, Baum, C. M., Ott, B. R., Ice, S., Johnson, A., Wallendorf, M., & Carr, D. B. (2015). Driving errors in persons with dementia. *Journal of the American Geriatrics Society, 63*(7), 1373-1380. <https://doi.org/10.1111/jgs.13508>
10. Vernon, E. K., Babulal, G. M., Head, D., Carr, D., Ghoshal, N., **Barco, P. P.**, Morris, J. C., & Roe, C. M. (2015). Adults aged 65 and older use potentially distracting electronic devices while driving. *Journal of the American Geriatrics Society, 63*(6), 1251-1253. <https://doi.org/10.1111/jgs.13499>
11. Papandonatos, G. D., Ott, B. R., Davis, J. D., **Barco, P. P.**, & Carr, D. B. (2015). Clinical utility of the Trail-Making Test as a predictor of driving performance in older adults. *Journal of the American Geriatrics Society, 63*(11), 2358-2364. <https://doi.org/10.1111/jgs.13776>
12. Bhorade, A., Yom, V., **Barco, P.**, Wilson, B., Gordon, M., & Carr, D. (2016). On-road driving performance of patients with bilateral moderate and advanced glaucoma. *American Journal of Ophthalmology, 166*, 43-51. <https://doi.org/10.1016/j.ajo.2016.02.03>
13. Bland, M., Birkenmeier, R., **Barco, P.**, Lenard, E., Lang, C., & Lenze, E. (2016). Enhanced medical rehabilitation: Effectiveness of a clinical training model. *Neurorehabilitation, 39*(4), 481-498.

## Curriculum Vitae

<https://doi.org/10.3233/NRE-161380>

14. Carr, D., **Barco, P.**, Babulal, G., Stout, S., Johnson, A., Xiong, C., Morris, J., & Roe, C. (2016). Association of functional impairments and co-morbid conditions with driving performance among cognitively normal older adults. *PloS One*, *11*(12), e0167751–. <https://doi.org/10.1371/journal.pone.0167751>
15. Roe, C., **Barco, P.**, Head, D., Ghoshal, N., Selsor, N., Babulal, G., Fierberg, R., Vernon, E., Shulman, N., Johnson, A., Fague, S., Xiong, C., Grant, E., Campbell, A., Ott, B., Holtzman, D., Benzinger, T., Fagan, A., Carr, D., & Morris, J. (2017). Amyloid imaging, cerebrospinal fluid biomarkers predict driving performance among cognitively normal individuals. *Alzheimer Disease and Associated Disorders*, *31*(1), 69–72. <https://doi.org/10.1097/wad.0000000000000154>
16. Lenze, E., **Barco, P.**, & Bland, M. (2018). Depression and functional impairment: A pernicious pairing in older adults. *The American Journal of Geriatric Psychiatry*, *26*(1), 73–74. <https://doi.org/10.1016/j.jagp.2017.09.02>
17. Allison, S., Babulal, G., Stout, S., **Barco, P.**, Carr, D., Fagan, A., Morris, J., Roe, C., & Head, D. (2018). Alzheimer disease biomarkers and driving in clinically normal older adults: Role of spatial navigation abilities. *Alzheimer Disease and Associated Disorders*, *32*(2), 101–106. <https://doi.org/10.1097/WAD.0000000000000257>
18. Vanlaar, W., Mainegra Hing, M., Meister, S., Charles, J., Ireland, L., Mayhew, D., Carr, D., **Barco, P.**, & Robertson, R. (2019). Pilot study of a new road test to assess cognitive fitness to drive. *Transportation Research. Part F, Traffic Psychology and Behaviour*, *65*, 258–267. <https://doi.org/10.1016/j.trf.2019.07.022>
19. Lenze, E. J., Lenard, E., Bland, M., **Barco, P.**, Miller, J. P., Yingling, M., Lang, C. E., Morrow-Howell, N., Baum, C. M., Binder, E. F., & Rodebaugh, T. L. (2019). Effect of enhanced medical rehabilitation on functional recovery in older adults receiving skilled nursing care after acute rehabilitation: A randomized clinical trial. *JAMA network open*, *2*(7), e198199. <https://doi.org/10.1001/jamanetworkopen.2019.8199>
20. Bland, M. D., **Barco, P.**, Lang, C. E., Lenard, E., Kallmi, S., Pennock, S., & Lenze, E. J. (2020). Activity level and intensity of older adults in skilled nursing rehabilitation measured via actigraphy. *Journal of geriatric physical therapy*, *10.1519/JPT.0000000000000259*. Advance online publication. <https://doi.org/10.1519/JPT.0000000000000259>
21. \***Barco, P. P.**, Wallendorf, M., Rutkoski, K., Dolan, K., Rakus, D., Johnson, A., & Carr, D. B. (2020). Validity and Reliability of the Traffic sign Naming Test (TSNT) and Written Exam for Driving Decisions (WEDD) as measures of fitness to drive among older adults. *The American journal of occupational therapy: official publication of the American Occupational Therapy Association*, *74*(3), 7403205090p1–7403205090p10. <https://doi.org/10.504/ajot.2020.034389>
22. \*McNeel Moore, S., Blenden, G., Creel, P., & **Barco, P. P.** (2020, October). Driving retirement for Persons With Parkinson’s Disease and Their Care Partners: A Novel Interactive Workshop. *OT Practice*, *25*(10), 18-21.
23. \***Barco, P. P.**, Wallendorf, M., Blenden, G., Rutkoski, K., Dolan, K., & Carr, D. (2021). Caregiver prediction of driving fitness in older adults with dementia. *Clinical Gerontologist*, 1-8. doi:10.1080/07317115.2021.1872130

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24. Ercal, B., Rodebaugh, T., Bland, M., **Barco, P.**, Lenard, E., Lang, C.E., Miller, J.P., Yingling, M., Lenze, E.J. (2021). Executive function moderates Functional Outcomes of Engagement Strategies during Rehabilitation in Older Adults. *American Journal of Physical Medicine & Rehabilitation*, 100(7), 635-642. doi: 10.1097/PHM.0000000000001739
25. Walsh, R.J., McKay, V.R., Hansen, P.E., Barco, P.P., Jones, K., Lee, Y., Patel, R.D., Chen, D., Heinemann A.W., Lenze, E. J., & Wong, A.W.K. (2022). Using implementation science to guide the process of adapting a patient engagement intervention for inpatient spinal cord injury/ disorder rehabilitation. *Archives of Physical Medicine and Rehabilitation*, 103 (11), 2180-2188. Doi: 10.1016/j.apmr.2022.04.010
26. Sabapathypillai, S.L., Perlmutter, M., **Barco, P.P.**, Wilson, B., Gordon, M., Carr, D., Bhorade, A. Self-reported driving difficulty, avoidance, and negative emotion with on-road driving performance in older adults with glaucoma (2022). *American Journal of Ophthalmology*, 241, 108-119. doi; 10.1016/j.ajo.2022.04.011
27. Costello, M., **Barco, P.P.**, Manning, K. J., O'Brien, K. E. Older adult driving performance assessed under simulated and on-road conditions. *Applied Neuropsychology*, published online May 15, 2022, <https://doi.org/10.1080/23279095.2022.2066533>
28. Classen, S., Gélinas, I; **Barco, P.**; Gibsen, B.; Hafner, E.; Jeghers, M.; Coppa Wandenkolk, I.; Devos, H. Automated Vehicles: Future Initiatives for Occupational Therapy Practitioners and Driver Rehabilitation Specialists. *Occupational Therapy Journal of Research*, published online Feb 22, 2024, doi 10.1177/15394492241229993
29. **Barco, P.P.**, Schold-Davis, Elin, Dickerson, A. AOTA Position Paper: Driving and Community Mobility, *American Journal of Occupational Therapy*. Bethesda, MD; American Occupational Therapy Association Press, *in press*

### Invited Publications

1. Sandson, J., Crosson, B., Posner, M. I., Brobeck, T. C., **Barco, P. P.**, Velozo, C. A. (1988). Attentional imbalances following head injury. In J.M. Williams, C. J. Long (Eds.), *Cognitive Approaches to Neuropsychology* (pp. 45-49). Plenum.
2. **Barco, P.P.**, Crosson, B.C., Bolesta, M.M., Werts, D., & Stout, R. (1991) Training awareness and compensation in post-acute head injury rehabilitation. In J. S. Kreutzer, P. H. Wehman (Eds.), *Cognitive Rehabilitation for Persons with Traumatic Brain Injury: A Functional Approach*. (pp. 129-147). Paul H. Brookes.
3. Carr, D., **Barco, P.P.** (2010). The older driver (introduction, functional assessment, interventions, medical assessment). In R. Berkow and M. H. Beers (Eds.), *The Merck Manual of Medical Information, Professional Edition and Consumer Version*. Merck Publishing.
4. **Barco, P. P.**, Stav, W.B., Arnold, R., Carr, D. (2012). Cognition and Community Mobility. In M. J. McGuire & E. Schold Davis (Eds). *AOTA Self-paced clinical course: Driving and community mobility* (pp. 137-172). AOTA.
5. **Barco, P. P.**, Dappen, M. S. (2014). Occupational Therapy for Individuals with Stroke in the Outpatient Rehabilitation Setting. In T. J. Wolf (Ed.), *Stroke: Interventions to Support Occupational Performance; Neurorehabilitation in Occupational Therapy Series, Vol II* (pp..

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275-306). AOTA.

6. Stowe, J. D., **Barco, P.P.**, Carr, D.B. (2017) Simulated Driving Performance of People with Dementia. In S. Classen (Ed.), *Driving Simulation: Sharing Evidence, Enhancing Practice – A Guide for Health Care Professionals* (pp. 213-224). AOTA.
7. **Barco, P.P.**, Pierce, S. (2017). Simulated Driving Performance of People with Physical Disabilities In S. Classen (Ed.), *Driving Simulation: Sharing Evidence, Enhancing Practice – A Guide for Health Care Professionals* (pp 171-186). AOTA.
8. **Barco, P.P.**, Carr, D. (2018). The older driver (introduction, functional assessment, interventions, medical assessment). In R. Porter, J. L. Kaplan, & L. B. Richard (Eds.), *The Merck Manual of Diagnosis and Therapy* (pp. 2877-2882). Merck, Sharpe, and Dohme.
9. Burch, K., **Barco, P.P.** (2019) Cognitive disabilities model: interventions for clients with dementia. In T. J. Wolf, D. Edwards, & G. Giles (Eds.), *Functional Cognition and Occupational Therapy* (pp. 239-262). AOTA.
10. **Barco, P. P.**, Gillen, G., Wolf, T.J. (2019). Cognitive intervention selection: Learning and concepts of transfer. In T. J. Wolf, D. Edwards, & G. Giles (Eds.), *Functional Cognition and Occupational Therapy: A Practical Approach to Treating Individuals with Cognitive Loss* (pp. 179-188). AOTA.
11. Manning, K. J., **Barco, P. P.**, Schultheis, M. T. (2019). Driving evaluation in older adults. In: *Handbook on the Neuropsychology of Aging and Dementia* (2nd ed.). Springer Science.
12. Wolf, T. J., **Barco, P.P.**, Giles, G. M. (2019). Functional Cognition Understanding the Importance to Occupational Therapy. *OT Practice Magazine*, AOTA, 12-15.
13. Taff, S.D., Russell-Thomas, D.C., Tyminski, Q.P., Wilson, A., **Barco, P.**, & Berg, C. (2021). Occupational therapy in pandemic: Facing challenges, building resilience, and sparking innovation. In A. Lynch, L. Tekell, & R. Ashcraft (Eds.). *Trauma Informed Care & Occupational Therapy*. Bethesda, MD: American Occupational Therapy Association Press.

### Peer-Reviewed Presentations

1. Crosson, B. C. & **Barco, P. P.** (1990, November). *Awareness and compensations in post-acute rehabilitation in comparative cognitive models*. Seminar presented at the 9th Annual National Head Injury Foundation Symposium, New Orleans, LA.
2. **Barco, P. P.**, Scheldt, C. (2008, April). *Understanding and working with insight deficits in brain injury*. Short Course at The American Occupational Therapy Association National Conference, Long Beach, CA.
3. Niewoehner, P., **Barco, P. P.**, Croston, J., Carr, D. (2008, November). *Evidenced-based driving evaluations and dementia: an interdisciplinary approach*. Paper presented at The Gerontological Society of America 61<sup>st</sup> Annual Scientific Meeting, National Harbor, MD.
4. **Barco, P. P.**, Hollingsworth, H., Ice, S., & Carr, D. (2009, April). *The future of medical fitness to drive: linking evidence and practice*. Short course at The American Occupational Therapy

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Association National Conference, Houston, TX.

5. Hunt, L., **Barco, P. P.**, & Carr, D. (2010, May). *A multifactorial "older driver with dementia" evaluation model guides fitness to drive decisions*. Short course at The American Occupational Therapy Association National Conference, Orlando, FL.
6. Carr, D. B., **Barco, P. P.**, & Hollingsworth H. (2010, June). *Fitness-to-Drive in Older Adults with Dementia*. Presentation at Alzheimer's Association International Conference on Alzheimer's disease (ICAD) Scientific Program: Featured Research Session, Honolulu, HI.
7. Carr, D. B., **Barco, P. P.**, Galvin, J. C., Ott, B. R., Morris, J. C. (2010, November). *Fitness-to-Drive in Stroke*. Presentation at 71<sup>st</sup> Annual Assembly of American Academy of Physical Medicine and Rehabilitation (AAPM&R), Seattle, WA.
8. Davis, J. D., Papandonatos, G. D., Miller, L. A., Knott, S. L., Festa, E. K., Heindel, W. C., **Barco, P. P.**, Ott, B. R. (2011, February). *Road Test and Naturalistic Driving Behavior in Older Adults with and without Memory Loss: Environment Matters*. Presentation at Journal of the International Neuropsychological Society, Boston, MA.
9. **Barco, P. P.**, Neiwoehner, P., Ice, S., Carr, D. B. (2011, April). *Defining Clinical Predictors of Driving Performance in Older Adults*. Presentation at American Occupational Therapy Association National Conference, Philadelphia, PA.
10. **Barco, P. P.**, Ice, S., Carr, D. B. (2012, October). *Driving Evaluation: Trends and Research*. Presentation at Brain Injury Association of Missouri, 8<sup>th</sup> Annual Statewide Conference, St. Charles, MO.
11. **Barco, P. P.**, Meuser, T. (2012, November). *The Record of Driving Errors (RODE): Quantitative Analysis of Driving Errors in Older Adults with and without Dementia*. Presentation at 65<sup>th</sup> Annual Scientific Meeting of Gerontological Society of America, San Diego, CA.
12. Carr, D. B., **Barco, P. P.**, Dolan, K., Waldendorf, M., Roe, C. M. (2014, April). *Caregiver Prediction of Road Test Performance*. Presentation at American Occupational Therapy Association National Conference, Baltimore, MD.
13. **Barco, P. P.**, Carr, D. B., Ott, B. R., Ice, S., Baum, C. M., Roe, C. M. (2014, April). *Assessing Driving Errors in Dementia Through the Record of Driving Errors (RODE)*. Presentation at American Occupational Therapy Association National Conference, Baltimore, MD.
14. Roe, C. M., **Barco, P. P.**, Head, D. M., Ghoshal, N., Selsor, N., Babulal, G. M., Fierberg, R., Vernon, E. K., Shulman, N., Johnson, A., Fague, S., Xiong, C., Grant, E. A., Campbell, A., Holtzman, D. M., Benzinger, T., Fagan, A. M., Carr, D. B., Morris, J. C. (2015, July). *Amyloid imaging and cerebrospinal fluid biomarkers predict driving performance in preclinical Alzheimer's disease*. Presentation at Alzheimer's Association International Conference, Washington, DC.
15. Vernon, E. K., Babulal, G. M., Head, D., Wallendorf, M., Carr, D. B., Ghoshal, N., **Barco, P. P.**, Morris, J. C., Roe, C. M. (2015, July). *Adults 65 and older use potentially distracting electronic devices while driving*. Presentation at Alzheimer's Association International Conference, Washington, DC.

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16. Babulal, G. M., Vernon, E. K., Ghoshal, N., Head, D. M., **Barco, P. P.**, Carr, D. B., Morris, J. C., Roe, C.M. (2015, July). *The relationship between mood states and preclinical Alzheimer's disease in older adults*. Presentation at Alzheimer's Association International Conference, Washington, DC.
17. **Barco, P. P.**, Stav, W. B., Carr, D. B., Classen, S., Monahan, M., Luther-King, M.V., Womack, J., Schold Davis, E. (2015, April). *Screening, Assessment, and Evaluation Related to Driving and Community Mobility across the Life Span*. Presentation at The American Occupational Therapy Association's 95th annual Conference & Expo: Giving Voice to the Distinct Value of Occupational Therapy, Nashville, TN.
18. Classen, S., Akinwuntan, A., Alvarez, L., **Barco, P. P.**, Carr, D., Devos, H., Evans, D., Hirsch, P., Monahan, M., Swanepoel, L., Winter, S. (2015, November). *Driving Simulation: Sharing Evidence and Enhancing Practice*. Workshop at the Association for Driver Rehabilitation Specialist's Annual Conference, Louisville, KY.
19. **Barco, P. P.**, Wallendorf, M., Rutkoski, K., Johnson, A., Dolan, K., Meuser, T. M., Stowe, J., Carr, D. B. (2015, November). *Traffic Sign Naming and Written Examinations as Predictors of Driving Performance in Dementia*. Paper at The Gerontological Society of America, Orlando, FL.
20. Stowe J, Meuser TM, Carr, D. B., **Barco, P. P.** (2015, November). *Older Adults' Health Status Predicts State Driving Examination Errors*. Paper at The Gerontological Society of America, Orlando, FL.
21. **Barco, P. P.**, Carr, D. B., Rutkoski, K., Wallendorf, M., Johnson, A., Vernon, E. K., Babulal, G. M., Roe, C. M. *Traffic sign identification and driving in preclinical Alzheimer's disease (AD)* [poster]. (2015, November). The Gerontological Society of America, Orlando, FL.
22. Meuser, T. M., Berg-Weger, M., **Barco, P. P.**, Stowe, J., Carr, D.B. (2015, November). *Pass-Fail Differences in Older Drivers Rated Capable by Physicians*. Symposium at The Gerontological Society of America, Orlando, FL.
23. Carr, D. B., **Barco, P. P.** and Preclinical Alzheimer's Grant Team (2015, November). *The Impact of Medical Conditions and Medications on Road Test Errors in Older Adults* [poster]. The Gerontological Society of America, Orlando, FL.
24. Babulal, G. M., Vernon, E. K., Ghoshal, N., Head, D. M., Carr, D. B., **Barco, P. P.**, Morris JC, Roe CM. (2015, November). *Stress and driving errors in older adults with and without preclinical Alzheimer's disease*. Poster at Bio Behavioral Health. The Gerontological Society of America. Orlando, FL.
25. **Barco, P. P.**, Wheatley, C., Carr, D. B. (2016, August). *Dementia and Driving – Current Evidence and Clinical Relevance*. Workshop at Annual Conference for Association for Driver Rehabilitation Specialists, Columbus, OH.
26. **Barco, P. P.**, Classen, S., Alvarez, L., Keanan, T.P., Dickerson, A., Evans, D. (2017, March). *Driving Interventions: Best Evidence and Practice in Driving Simulation with At-Risk Populations through the Lifespan*. Workshop at American Occupational Therapy Association National Conference, Philadelphia, PA.
27. Dickerson, A. E., Schold Davis, E., **Barco, P. P.** (2017, August). *The Generalist/Specialists as*

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*Collaborators: The Evidence behind Driving Decisions for Dementia.* Workshop at National Annual Conference for Association for Driver Rehabilitation Specialists, Albuquerque, NM.

28. Schold Davis, E., Dickerson, A.E., **Barco, P.P.** (2018, April). *OT-DRIVE: A Five-Step Guide for Generalist Practice Routine Evaluation and Implementation of Driving and Community Mobility as an instrumental Activity of Daily Living.* Short Course at the American Occupational Therapy Association National Conference, Salt Lake City, UT.
29. **Barco, P.P.**, Dickerson, A.E., Schold Davis, E., Touchinsky, S., Dolan, K., Burch, K., Bateman, K. (2018, April). *Cognition, Therapy, and Driving: Let's Not Just "Think" About It – Let's Do It.* Workshop at the American Occupational Therapy Association National Conference, Salt Lake City, UT.
30. **Barco, P. P.**, Sclarici, J., Daws, C., Wallendorf, M., Rutkoski, K., Dolan, K., Carr, D. (2019, April). *Traffic Signs and Written Tests in Predicting Driving Performance in Persons with Dementia.*[poster]. American Occupational Therapy Association National Conference, New Orleans, LA.
31. **Barco, P.P.**, Giles, G., Burch, K., Wolf, T. (2019, April). *Functional Cognitive Intervention: What Occupational Therapists Need to Know.* Workshop at the American Occupational Therapy Association National Conference, New Orleans, LA.
32. **Barco, P.P.** & Telsow, R. (2019, August). *Standardizing the Measurement of On-Road Driving Assessment and Driving Errors.* Workshop at the Association for Driver Rehabilitation Specialists, Lexington, KY.
33. Wong, A. W. K., Hansen, P., **Barco, P.**, Walsh, R., Lee, Y., & Lenze, E. (2019, November). *Implementation and adaptation of Enhanced Medical Rehabilitation: Intervention to optimize patient engagement and outcomes* [Symposium]. American Congress of Rehabilitation Medicine 2019 Annual Meeting, Chicago, USA.
34. Walsh, R., McKay, V., **Barco, P.**, Hansen, P., Jones, K., Lee, Y., & Wong, A. (2019, December). *Implementing enhanced medical rehabilitation in spinal cord injury rehabilitation: Adaptations from a community advisory board and research team collaboration* [poster]. 12th Annual Conference on the Science of Dissemination and Implementation, Arlington, VA.
35. Walsh, R., McKay, V., **Barco, P.**, Hansen, P., Jones, K., Lee, Y., & Wong, A. (2020, February). *Researcher-stakeholder collaboration to adapt a patient engagement intervention for spinal cord injury rehabilitation* [Poster session]. BJC 2020 Patient Safety & Quality Symposium, St. Louis, USA.
36. Walsh, R., Papadimitriou, C., Hansen, P., **Barco, P.**, McKay, V., Lenze, E., Lee, Y., Jones, K., Heinemann, A., & Wong, A. (2020, March). *Understanding patient engagement in spinal cord injury rehabilitation and therapists' use of communicative and relational strategies.* Poster presentation accepted to the American Occupational Therapy Association 2020 Annual Conference, Boston, MA (Conference cancelled).
37. Walsh, R., McKay, V., **Barco, P.**, Hansen, P., Jones, K., Lee, Y., & Wong, A. W. K. (2020, April). *Adapting a patient engagement intervention for spinal cord injury rehabilitation: Modifying Enhanced Medical Rehabilitation to address social determinants of health.* [Poster session]. National Collaborative to Address Social Determinants of Health Annual Conference, Chicago, USA (Conference cancelled).

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38. Sabapathypillai, S.L, Perlmutter, M.S., **Barco, P.P.**, Wilson, B., Gordon, M., Carr, D., Bhorade, A.M. Clinical factors associated with at-risk driving in older adults with glaucoma. Poster presentation at American Academy of Ophthalmology Conference, Amelia Island, Florida, November 2021.
39. Dickerson, A & **Barco, P.P.** (2023, October). *How to use the best evidence without a statistics course*. In person presentation at 47<sup>th</sup> ADED Annual Conference & Expo, Kansas City, MO, Sept/Oct 2023.
40. **Barco, P.P.**, Touchinsky, S., Schold-Davis, E., & Dickerson, A. *Sharpen your clinical reasoning skills: Complex driving cases of older adults with cognitive challenges*. In person presentation at 47<sup>th</sup> ADED Annual Conference & Expo, Kansas City, MO, Sept/Oct 2023.
41. **Barco, P.P.** & Blenden, G. *Stop! Yield! The administration and scoring of the traffic sign naming test*. In person presentation at 47<sup>th</sup> ADED Annual Conference & Expo, Kansas City, MO, Sept/Oct 2023.
42. **Barco, P.P.**, Dickerson, A.E., Davis, E.S., Touchinsky, S. *Driving the Future: Occupational Therapy's Impact on Driving and Community Mobility*. In person presentation at AOTA Inspire 2025 Conference, Philadelphia, PA, April 2025.

### Invited Presentations

1. **Barco, P. P.** & Crosson, B. C. (1989). *Awareness and compensation after head injury*. Paper presented at The Missouri Occupational Therapy Association Spring Conference – Enhancing Skills for Functional Outcomes, St. Louis, MO.
2. **Barco, P. P.** & Luter S. (2009). *Driving as we age: rehabilitation driver's assessments*. Presentation at St. Louis Parkinson's Leadership Training Seminar, Clayton, MO.
3. **Barco, P. P.** (2009, June). *The rehabilitation driving assessment*. Presentation at The Physical Medicine and Rehabilitation Interns at Washington University School of Medicine, St. Louis, MO.
4. **Barco, P. P.**, Matheson, L., Scheidt, C., & Anson, L. (2009, August). *Innovative approaches in brain injury rehabilitation*. Presentation at Missouri Employers Mutual, St. Louis, MO.
5. **Barco, P. P.**, Scheidt, C., Wunderlick, J., Tuinstra, S. (2009, October). *PDA's – considerations for use as a memory compensation following brain injury*. Presentation at The Brain Injury Association of Missouri: 5th Annual Statewide Conference, St. Louis, MO.
6. **Barco, P. P.** (2010, October). *The Impact of Disruptions in Executive and Awareness on Performance*. Presentation at Second Annual Rehabilitation Research Day: Advances in Neuro Rehabilitation, St. Louis, MO.
7. **Barco, P. P.**, Niewoehner, P., Ice, S., Carr, D. (2011). *Defining Clinical Predictors of Driving Performance in Older Adults*. Presentation at Missouri Occupational Therapy State Conference, St. Louis, MO.
8. **Barco, P. P.**, Carr, D. B. (2011, October). *The Impact of Cognitive Deficits on the IADL of Driving*. Presentation at American Occupational Therapy Association National Specialty Conference on Adult Cognition, St. Louis, MO.

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9. **Barco, P. P.** (2011, October). *Dementia and Driving: Current Evidence and Clinical Relevance*. Department of Geriatric Psychiatry, University of Connecticut, Storrs, CT .
10. Carr, D. B., **Barco, P. P.**, Stowe J. (2014, October). *Driving and Older Adults with Medical Impairment*. Presentation at Washington University Mini Medical School, St. Louis, MO.
11. **Barco, P. P.**, Wallendorf, M., & Carr, D. B. (2014, October). *Dementia and Driving: New Tools for the Clinician*. Presentation at Washington University ADRC, St. Louis, MO.
12. **Barco, P. P.** (2015, March). *Assessing Driving and Dementia: Current Evidence and Trends*. Presentation at 29<sup>th</sup> Annual Geriatrics Conference: Pearls of Geriatric Care, Springfield, MO.
13. **Barco, P. P.** & Dolan, K. (2016, September). *Driving and Pre-Driving Assessment and Intervention. Geriatric Therapy: Addressing the Changes and Challenges of Aging*. Continuing Education Workshop at Barnes Jewish Hospital, St. Louis, MO.
14. **Barco, P. P.** & Dolan, K. (2016, September). *Driving and Pre-Driving Assessment and Intervention. Geriatric Therapy: Addressing the Changes and Challenges of Aging*. Continuing education workshop at Barnes Jewish Hospital, St. Louis, MO.
15. **Barco, P. P.** & Dolan K. (2017, January). *Driving and Pre-Driving Assessment and Intervention for Stroke*. Presentation at the Rehabilitation Institute of St. Louis, St. Louis, MO.
16. **Barco, P. P.** (2017, March). *Dementia and Driving: Current Evidence and Clinical Relevance*. Continuing Education at Barnes Extended Care, St. Louis, MO.
17. **Barco, P. P.** (2017, May). *Driving (Dementia and Stroke): Application of Pre-Screening Tools*. Continuing Education at Barnes Extended Care, St. Louis, MO.
18. **Barco, P. P.**, Dolan, K. (2017, May) *Driving and Pre-Driving Assessment and Intervention. Geriatric Therapy: Addressing the Changes and Challenges of Aging*. Continuing education workshop at Barnes Jewish Hospital, St. Louis, MO.
19. **Barco, P. P.** (2017, June). *Dementia and Driving: Current Evidence and Clinical Relevance*. Continuing Education at Sherbrook Village, St. Louis, MO.
20. **Barco, P. P.** (2017, July). *Driving (Dementia and Stroke): Application of Pre-Screening Tools*. Continuing Education at Sherbrook Village, St. Louis, MO.
21. **Barco, P. P.** (2017, July). *Dementia and Stroke: Evidenced Based Prescreening Tools for Fitness to Drive*, Presentation at SSM Healthcare, St. Louis, MO.
22. **Barco, P. P.** (2017, June). *Occupational Therapy and the IADL of Driving*. Presentation at Brookdale Senior Living, St. Louis, MO.
23. **Barco, P. P.** (2017, October). *Doherty M. How to Problem Solve Executive Function Deficits after Brain injury*. Brain Injury Association of Missouri 13<sup>th</sup> Annual Statewide Conference, St. Louis, MO.
24. Campbell, K., Smith, L., Litwiller, L., **Barco, P. P.** (2018, September). *Driving Through the Decades for Older Drivers*. Presentation at Missouri's 2018 Highway Safety and Traffic

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- Blueprint Conference, Columbia, MO.
25. **Barco, P. P.** (2019, April). *Driving and Dementia: Challenges, Evidence, and Trends*. Presentation at Annual Geriatrics Conference, Springfield, MO.
  26. Harmon, A. C., Carr, D. B., & **Barco, P. P.** (2019, June). *Balancing Medical Conditions with Driving Safety: Things to Consider*, Columbia, MO.
  27. **Barco, P. P.** & Carr, D. B. (2019, November). *Older Adult Drivers: At the Intersection of Public Safety, Autonomy, and Research*. Presentation at the Missouri 2019 Highway Safety and Traffic Blue Print Conference, Columbia, MO.
  28. **Barco, P. P.**, McNeel-Moore, S., Blenden, G., Teslow, R., Whitaker, E., Rindner, R., Daws, C., Bishop, E., & Creel, P. (2019). *A Series of Workshops: Knowledge and Application Related to Preparing for Driving Retirement and Utilization of Novel Resources*. American Parkinson Diseases Association St. Louis Chapter, St. Louis, MO.
  29. Dennis-Perez, J, Steinberg, C, **Barco, P. P.** (2020, June). *Occupational Therapy's Role in Addressing Functional Cognition in Client's with Covid-19*. American Occupational Therapy Association, National Presentation, Virtual.
  30. Barco, P.P. (2021, June). *Medical Fitness to Drive: The Role of the Occupational Therapist*. Presented to St. Louis SSM Health Day Institute Therapist, St. Louis, Virtual.
  31. Barco, P.P. & Blenden, G. (2022, April). *To Drive or Not to Drive- That is the Question*. Midwest Parkinson Congress, St. Louis, MO.
  32. Barco, P.P. (2022, April). *Dementia: To Drive or Not to Drive*. St. Louis University Geriatric Grand Rounds, St. Louis, MO.
  33. Barco, P.P. (2022, June). *Functional Cognition: Foundations (Part 1 of 2)*. St. Louis in-service to Occupational Therapists (virtual), St. Louis, MO.
  34. Barco, P.P, Blenden, G., Castro, A. (2023, June). *Functional Cognitive Assessment: A Crash Course for Occupational Therapists (Part 2 of 2)*. Training presented to SSM Occupational Therapists, Washington University School of Medicine at Program in Occupational Therapy, St. Louis, MO.
  35. Barco, P., Corbridge, S., Danielson, R., Fitzpatrick, J. (2022, June). *Panel: Competency-Based Education in the Health Professions: Sharing Perspectives (moderator: H. Carrie Chen)*. 2023 Innovation Summit for Health Professions Education, Creighton University (virtual).
  36. Barco, P.P. (2024, March; 2025, March). *Driving and Dementia*. Clinician Partners Program at the Knight ADRC, Washington University School of Medicine in St. Louis.

### Online Continuing Education Courses Developed

1. Schold Davis, E. and Barco, P. P. Occupational Therapy Intervention: Driving & Community Mobility Priorities for Older Adults (2021). American Occupational Therapy Association Continuing Education Course. [https://myaota.aota.org/shop\\_aota/product/OL8316](https://myaota.aota.org/shop_aota/product/OL8316)
2. Barco, P, Bland, M. D., Lenze, E. J. Enhanced-Medical Rehabilitation (2019). The Academy of

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