CIRRICULUM VITAE

Dennis P. McCarthy, Ph.D., M.Ed., OTR/L

Assistant Professor Florida International University College of Nursing and Health Sciences Occupational Therapy Department

Director, South Florida Community Mobility Research Lab Lehman Center for Transportation Research

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EDUCATION

- Doctor of Philosophy: University of Florida, 2005
 - o Rehabilitation Science
- Master of Education: Florida Atlantic University, 2001
 - o Major: Educational Technology
- Bachelor of Science: Florida International University, 1995
 - Occupational Therapy

ACADEMIC AND CLINICAL EXPERIENCE

- Assistant Professor, Florida International University, Department of Occupational Therapy, Miami, Florida: 2008- Present
- Adjunct Faculty, Lehman Center for Transportation Research, Miami, Florida: 2009-present
- Courtesy Faculty, National Older Driver Research and Training Center, Gainesville, FL: 2008-present
- Research Assistant Professor, University of Florida, Department of Occupational Therapy, Gainesville, Florida: 2005-2008
- Project Co-Director and Research Coordinator, National Older Driver Research and Training Center (NODRTC), University of Florida, Gainesville, Florida: 2003-2008
- Graduate Research Assistant, University of Florida, Gainesville, Florida: 2002-2003
- Staff Occupational Therapist, North Broward Medical Center, Pompano Beach, FL: 1996-2001

EXTERNAL SUPPORT

Research Support, Completed

- <u>Process and Outcomes Evaluation of Older Driver Screening Programs.</u> Funded by the National Highway Traffic Safety Administration: \$225,000. January 2005 March 2008. Role: Co-PI and Project Officer (PI: William C. Mann)
- <u>Parkinson's Disease and Driving</u>. Funded by Shands Hospital: \$15,000. January 2006
 December 2006. Role: PI

- <u>Low Vision and the Effects on Driving Performance</u>. Funded by Shands Hospital: \$15,000. January 2006 December 2006. Role: PI
- Older Driver Infrastructure Research Project, Funded by the U.S. Department of Transportation, Federal Highway Administration: \$600,000, October, 2003- September 2005. Role: Project Co-Director and Research Coordinator (Project Director: Dr. William C. Mann).
- Older Driver Research and Training Project, Funded by the Centers for Disease Control and Prevention: \$1,000,000, October, 2003- September 2005. Role: Co-PI and Research Coordinator (PI: Dr. William C. Mann).

Demonstration Project Support, Completed

- <u>Florida Senior Safety Resource Centers: University of Florida</u>, Funded by Florida Department of Transportation, \$22,727 from June, 2005 to September, 2005; Role: Co-PI and Coordinator (PI: Dr. William C. Mann).
- <u>Florida Older Drivers Demonstration</u>, Funded by Florida Department of Transportation, \$79,000 from May, 2003 to September, 2003; Role: Co-PI (PI: Dr. William C. Mann).

PUBLICATIONS

Articles in Refereed Journals

- **McCarthy, D.P.** Transportation Usage among South Florida Elders. (Submitted for publication, March 2009). *American Journal of Occupational Therapy*.
- Classen, S.; **McCarthy, D.P.**; Lanford, D.N.; Mann, W.C.; Awadzi, K.D.; Okun, M.S., Rodriguez, R.L.; Romrell, J.; Bridges, S.; & Fernandez, H.H. Useful Field of View as a Indicator of Driving Performance on a Standardized Road Test in People with Parkinson's Disease (submitted for publication, November 2008). *Parkinsonism & Related Disorders*
- Langford, J., Koppel, S, **McCarthy, D.P**. & Sivaramakrishnan, S. In Defense of the "Low Mileage Bias". (2008) *Accident Analysis & Prevention*. 40(6); 1996-1999
- Classen, S., Levy, C., **McCarthy, D.P**., Mann, W.C., Lanford, D., & Waid-Ebbs. Traumatic Brain Injury and Driving: An Evidence Based Literature Review (accepted for publication). *American Journal of Occupational Therapy*.
- Morgan, C.M, Winter, S.M., Classen, S., **McCarthy, D.P.,** & Awadzi, K.D. Literature Review on Older Adult Gender Differences for Driving Self-Regulation (accepted for publication). *Topics in Geriatric Rehabilitation*.
- Stav, W.B., Justiss, M.D., **McCarthy, D.P.**, Mann, W.C., Lanford, D. (2008) Predictability of Clinical Assessments for Driving Performance. *Journal of Safety Research* **39**(1), 1-7
- Shechtman, O., Classen, S., Stephens, B., Bendixen, R., Belchoir, P., Sandhu, M., McCarthy, D.P., Mann, W. & Davis, E. (2007). The impact of intersection design on simulated driving performance of young and senior adults. *Traffic Injury Prevention.* 8(1), 78-86.
- Classen, S., Shechtman, O., Stephens, B., Davis, E., Justiss, M., Bendixen, R., Belchior, P., Sandhu, M., Posse, C., **McCarthy, D.P.**, & Mann, W. (2007). The impact of roadway intersection design on driving performance of young and senior adults. *Traffic Injury Prevention.* **8**(1), 69-77.
- **McCarthy, D.P.**, Mann, W.C. (2006). Sensitivity and Specificity of the American Medical Association's Assessment of Driving Related Skills (ADReS). *Topics in Geriatric Rehabilitation* 22(2).

- Posse, CA, **McCarthy, D.P**., Mann, W.C. (2006). Pilot Study of Interrater Reliability of the Assessment of Driving-related Skills Older Driver Screening Tool. *Topics in Geriatric Rehabilitation*. 22(2).
- Eberhard, J., Stutts, J., Burkhardt, J., Finn, J., Hunt, L., Staplin, L., Molnar, L., Peters-Beumer, L., Dinh-Zarr, B., Carr, D., Trilling, D., & **McCarthy, D.P.** (2006). Strategies and Tools to Enable Safe Mobility for Older Adults. *Topics in Geriatric Rehabilitation*. 22(2).
- **McCarthy, D.P.** (2005). Approaches to improving elders' safe driving abilities. *Journal of Physical and Occupational Therapy in Geriatrics.* **23**(2/3).
- Mann. W.C., **McCarthy, D.P.,** Wu, S.S., & Tomita, M. (2005). Relationship of health status, functional status, and psychosocial status to driving among elderly with disabilities. *Journal of Physical and Occupational Therapy in Geriatrics*. **23**(2/3).
- Stephens, B., **McCarthy, D.P.**, Marsiske, M., Classen, S., Shechtman, O., & Justiss, M.D., Mann, W.C. (2005). Summary Report of the International Older Driver Consensus Conference. *Journal of Physical and Occupational Therapy in Geriatrics*. **23**(2/3).
- Classen, S., Shechtman, O., Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., Justiss, M., Posse, C., **McCarthy, D.P.**, & Mann, W. (2005). The impact of roadway intersection design on driving performance of young and senior adults. *Topics in Geriatric Rehabilitation.* **22**(1)
- Shechtman, O., Classen, S., Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., **McCarthy, D.P.**, & Mann, W. (2005). The impact of intersection design on simulated driving performance of young and senior adults: Preliminary results. *Topics in Geriatric Rehabilitation.* **22**(1)

Book Chapter

McCarthy, D.P. (2005). "Elder Driving and Smart Cars" in W.C. Mann (Ed.) *Computing and Engineering for Aging, Disability and Independence.* Philadelphia: Wiley

PRESENTATIONS

- **McCarthy, D.P.** Travel Modes Used by South Florida Elders. Abstract submitted for presentation at the Gerontological Society of America's Annual Scientific Meeting, November 18-22, 2009, Atlanta, GA.
- Anderson, A., Kluger, B., Garvan, C., Classen, S., Fernandez, H., Mennemeier, M., & **McCarthy, D.P.** Magnitude Estimation in Parkinson's Disease. Abstract submitted to the Movement Disorders Society Annual International Congress, June 7-11, 2009, Paris, France
- Winter, S. M., Morgan, C. M., Classen, S., McCarthy, D.P., & Awadzi, K. Evidence-based Recommendations For Addressing Gender Differences In Driving Self-regulation Or Cessation By Older Adults (poster accepted for presentation), American Occupational Therapy Association's 89th Annual Conference. April 23 26, 2009, Houston, Texas
- Winter, S., Morgan, C., Classen, S., & **McCarthy, D.P.** "Review of Gender Differences in Older Adults' Driving Self-regulation and Cessation" (poster presentation), 61st Annual Scientific Meeting of the Gerontological Society of America, National Harbor, MD, November 21-25, 2008.

- McCarthy, D.P. Driving and Parkinson's Disease: Implications for Physicians and Driver Rehabilitation Specialists. American Occupational Therapy Association's 88th Annual Conference. Long Beach, CA, May 2008.
- **McCarthy, D.P.** Driving and Transportation Issues of Seniors. Florida Occupational Therapy Association's Annual Conference, Gainesville, Florida, February, 2008.
- McCarthy, D.P. Older Driver Safety and Exposure. 2008 Joint Conference of American Society on Aging and the National Council on Aging, Washington, D.C., March 2008
- Justiss, M.D., Stav, W.B., **McCarthy, D.P.**, Mann, W.C., & Lanford, D.N. Predictability of Clinical Assessments for Driving Performance. International Conference on Aging, Disability and Independence, St. Petersburg, Florida, February 2008.
- McCarthy, D.P., Sipp, A., Lanford, D.N., Justiss, M.D., Rodriguez, E., & Mann, W.C. Older Drivers with Low Annual Mileage as a Risk Factor for Unsafe Driving Performance. International Conference on Aging, Disability and Independence, St. Petersburg, Florida, February 2008.
- **McCarthy, D.P.,** Lanford, D.N., Garvan, C., Justiss, M.D., Mann, W.C., Rodriguez, E., & Fernandez, H.H. Driving Habits and Performance of Those with Parkinson's Disease. International Conference on Aging, Disability and Independence, St. Petersburg, Florida, February 2008.
- McCarthy, D.P., Garvan, C., Lanford, D.N., Okun M.S., Rodriguez R.L., Romrell J., Mann, W.C., Bridges, S., & Fernandez, H.H. Perceived driving ability of drivers with Parkinson's disease. Twenty First Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. Washington, DC. October 7, 2007.
- **McCarthy, D.P.**, Fernandez, H., Garvan, C., Lanford, D., & Mann, W.C. Clinical predictors of on-road driving performance in patients with Parkinson's disease. Accepted for presentation at the 11th International Congress of Parkinson's Disease and Movement Disorders, Istanbul, Turkey. June 3-7th, 2007.
- **McCarthy, D.P.**, Fernandez, H., Garvan, C., Justiss, M.D., Lanford, D., & Mann, W.C. Types of driving errors committed by patients with Parkinson's disease. 11th International Congress of Parkinson's Disease and Movement Disorders, Istanbul, Turkey. June 3-7th, 2007.
- McCarthy, D.P. Maintaining Elder Mobility: Driver Screening and Assessment, Interventions, and Driving Alternatives. 2007 Joint Conference of American Society on Aging and the National Council on Aging, Chicago, March 2007
- Classen, S., Shechtman, O; Stephens, B., Davis, E., Bendixen, R., Belchior, P., Sandhu, M., Justiss, M., Posse, C., McCarthy, D.P., Mann, W. *The Impact of Roadway Intersection Design on Driving Performance of Young and Senior Adults*. Gerontological Society of America's 59th Annual Scientific Meeting Dallas, TX, November 16-23, 2006.
- McCarthy, D.P. & Mann, W. Sensitivity and Specificity of the Assessment of Driving Related Skills Screening Tool for Older Drivers. The International Traffic Medicine Association Conference, Melbourne, Australia, October 2006
- O. Shechtman, S. Classen, B. Stephens, E. Davis, R. Bendixen, P. Belchior, M. Sandhu, **D.P. McCarthy**, and W. Mann. *The impact of intersection design on simulated driving performance of young and senior adults.* 4th Annual STISIM

- Drive User Group Meeting: New Approaches to Simulation and the Older Operator, Boston, MA, October 27, 2006.
- McCarthy, D. P. Sensitivity and Specificity of the American Medical Association's Assessment of Driving-Related Skills (ADReS). Joint Conference of The National Council on the Aging and the American Society on Aging, Anaheim, CA, March 2006
- **McCarthy, D.,** & Witte, M. *Law Enforcement and the Older Driver: A Lack of Policies, Procedures, and Resources.* (Poster) International Conference on Aging, Disability and Independence, St. Petersburg, Florida, February 2006.
- Posse, CA, McCarthy, D.P., Mann, W.C. Pilot Study of Interrater Reliability of the Assessment of Driving-related Skills Older Driver Screening Tool. (Poster) International Conference on Aging, Disability and Independence, St. Petersburg, Florida, February 2006.
- McCarthy, D.P. Assessment of Older Drivers: Preliminary Results from the National Older Driver Research and Training Center. 85th American Occupational Therapy Association. Long Beach, CA, May 2005.
- McCarthy, D.P. Tools and Resources for Older Driver Safety (Exhibitor-Sponsored Seminar). 85th American Occupational Therapy Association. Long Beach, CA, May 2005. National Older Driver Research and Training Center: Maintaining Community Independence. Joint Conference of the American Society on Aging (ASA) and the National Conference on the Aging (NCOA), Philadelphia, April 2005
- McCarthy, D.P. Older Driver Research at the University of Florida. Occupational Therapy Symposium on Community Mobility and Driving, Orlando, FL, December 2004
- McCarthy, D.P. Assistive Technology for the Safe Mobility of Elderly Persons (Workshop). Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Annual Conference, Orlando, FL, June 2004.
- McCarthy, D.P. (Keynote Speaker). Older Driver Assessment: Report from the International Older Driver Consensus Conference. Canadian Consensus Conference for Older Driver Safety. Edmonton, Canada, May 2004
- McCarthy, D.P. Report from the National Older Drivers Research and Training Center. 84th American Occupational Therapy Association. Minneapolis, May 2004.
- McCarthy, D.P. Mann, W., Wu, S.S., & Tomita, M. *The Relationship of Health Status, Functional Status, and Psychosocial Status to Driving Among Elderly with Disabilities* (Poster). Brooks Center for Rehabilitation Studies, Gainesville, FL, May 2004.
- McCarthy, D.P. Initial Findings from the National Older Drivers Research and Training Center. 2004 Joint Conference of the American Society on Aging (ASA) and the National Conference on the Aging (NCOA), San Francisco, April 2004.
- Panel Session Member: *The Santa Monica Crash: Strategies to Reduce Future Occurrences.* 2004 Joint Conference of the American Society on Aging (ASA) and the National Conference on the Aging (NCOA), San Francisco, April 2004.
- McCarthy, D.P., Mann, W., Wu, S.S., & Tomita, M. Health, Functional, and Psychosocial Status and Older Drivers. International Conference on Aging, Disability and Independence (ICADI), Washington, D.C., December 2003
- **McCarthy, D.P.** *The Seniors' Institute on Transportation and Communication (SITComm at the University of Florida)*. Brooks Center for Rehabilitation Studies,

- Jacksonville, FL, September 2003.
- McCarthy, D.P., Mann, W., Wu, S.S., & Tomita, M. *The Relationship of Health Status, Functional Status, and Psychosocial Status to Driving Among Elderly with Disabilities.* Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) Annual Conference, Atlanta, GA, June 2003.
- McCarthy, D.P. The University of Florida's National Older Driver Research Center Project. Brooks Center for Rehabilitation Studies, Jacksonville, FL, April 2003.

PROFESSIONAL ACTIVITIES

- DriveSafety Clinical Advisory Board. DriveSafety, Inc, Murray, Utah. April 2009present
- Expert Panel: Taxonomy of Older Driver Behaviors and Crash Risk. National Highway Traffic Safety Administration, Baltimore, MD, February 2009
- Master Faculty Advisory Committee, American Medical Association, 2008 Present
- Expert Panel: Older Driver Mobility Expert Panel; National Highway Traffic Safety Administration, Greenbelt, MD, March 12, 2008
- Planning Committee: 2008 International Conference on Aging, Disability and Independence
- Transportation Track co-chairperson: 2008 International Conference on Aging, Disability and Independence
- Advisory Panel: North American License Policies Workshop, AAA Foundation for Traffic Safety, Washington, D.C., December 2007.
- Expert Panel, American Medical Association's Older Drivers Project Update, 2007
 present
- Reviewer Registry and T-32 Mentor: University of Florida Network for Bio-Behavioral and Social Research and Training in Aging, 2007 - present
- Advisory Panel: Transportation Transitions to Options Expert Group, Beverly Foundation, January 2007
- Advisory Panel: Association of Occupational Therapists Working Group on Driving: Response to the Chief Coroner's Office of Ontario, Canada, 2006
- Advisory Panel: Palm Beach County Transportation Group, 2006 2007
- Expert Panel, Use of Advanced In-Vehicle Technology by Younger and Older Early Adopters, AAA Foundation for Traffic Safety, August 2006
- Workshop Facilitator: Safe Driving for Seniors Mobility Forum: Independence and Senior Mobility, Orlando, FL: June 2006
- Expert Panel: Self-Screening Instruments for Older Drivers. University of Michigan Transportation Research Institute, 2005
- Advisory Panel: Best Practices in Older Driver Safety, National Association of Area Agencies on Aging: 2004:
- Expert Panel, Older Driver Advisory Council, American Occupational Therapy Association: 2003-2005
- Expert Panel, Canadian Driving Research Initiative for Vehicular Safety in the Elderly, Edmonton, Canada, May 2004
- Expert Panel, International Older Driver Consensus Conference, Arlington, VA, 2003
- Expert Panel, American Medical Association Older Drivers Project, 2002-2003
- Member, Florida At-Risk Drivers Council, 2002-2003

• Expert Panel, American Occupational Therapy Association Older Driver Consensus Conference, Bethesda, MD, December 2002

EDITORIAL AND REVIEW ACTIVITIES

Grant Reviews

- AAA Foundation for Traffic Safety: Simulated Driving Validation Study, July 2008
- Canadian Institutes of Health Research (CIHR): Biological and Clinical Aspects of Aging Peer Review Committee, May 2008
- Canadian Institute of Health Research (CIHR): Emerging Team Grant: Mobility in Aging Review Committee, January 2008
- University of Vermont University Transportation Center proposal, January 2007
- AUTO21 Network of Centres of Excellence, University of Windsor, Ontario, Canada, October 2004
- National Association of Area Agencies on Aging, Washington, D.C., Older Driver Safety Project, October 2004

Journal Article Reviews

- Archives of Physical Medicine and Rehabilitation, October 2008
- *Journal of the American Geriatrics Society*, April 2003, May 2004, September 2004, December 2007, January 2008, March 2008
- Journal of Rehabilitation Research and Development, October 2007, March 2008
- Topics in Geriatric Rehabilitation, November 2007
- International Journal of Vehicle Information and Communication Systems, January 2004

Editorial Boards

• Editorial Board Member, Topics in Geriatric Rehabilitation. April 2009 – present **Other Editorial and Review Activities**

- Guest Editor: Special edition of *Topics in Geriatric Rehabilitation*: Transitioning from Driver to Rider, Part II, Volume 25, Number 2 (April 2009)
- Guest Editor: Special edition of *Topics in Geriatric Rehabilitation*: Transitioning from Driver to Rider, Volume 25, Number 1 (January 2009)
- Review Committee Member: Revision of <u>Physician's Guide to Assessing and Counseling Older Drivers</u>: American Medical Association, 2008
- Reviewer: 2008 International Conference on Aging, Disability and Independence: Transportation Track
- Reviewer: 2007 World Conference on Transportation Research
- Guest Editor: "Newsletter of the Network on Environments, Services and Technology for Maximizing Independence", American Society on Aging, Spring Edition, 2004
- Review Committee Member: <u>Physician's Guide to Assessing and Counseling Older Drivers</u>: American Medical Association, 2003

TEACHING EXPERIENCE

- Adaptation Human Occupation & Environment I Lab: OTH 5996, Florida International University, Summer 2009
- Level I Fieldwork: OTH 3815, Florida International University, Summer 2009
- Masters of Occupational Therapy Research Project Sections, OTH 6972 & 6973, Florida International University, Miami, FL, Fall/Spring 2008-9

- Invited Guest Lecturer: "Elder Mobility". Florida International University, Miami, FL February 2008
- Selected lectures for Adult and Senior combined courses OTH 5816, 6636, and 6642, University of Florida, Fall 2006, 2007
- Issues in Occupational Therapy I and II: Summer/Fall 2006, 2007
- Adjunct Faculty: Adult and Senior combined courses OTH 5816, 6636, and 6642, University of Florida; Spring 2005, Fall 2005
- Supervised Teaching: Occupational Therapy Foundations. University of Florida, Department of Occupational Therapy, Summer 2003
- Guest Lecturer: "Introduction to Evidence Based Practice". University of Florida, Department of Occupational Therapy, Distance Learning Program, May 2003
- Teaching Assistant: Assistive Technology and Occupational Performance.
 University of Florida, Department of Occupational Therapy, Distance Learning Program, Summer 2002

THESIS & DISSERTATION SUPERVISION & REVIEW

- Christy M. Morgan, (Dissertation Committee Member). Clinical Health Sciences Doctoral Program, University of Mississippi, 2007-present. *Mississippi Older Driver Study*. Anticipated Graduation: Spring 2009
- Kelli Mason, (Mentor: Honors Thesis) Bachelor of Health Science Honors Thesis Program, University of Florida, 2008-2009. *Cognition and Older Drivers*. Anticipated Graduation: Spring 2009
- Lynn Kay, (Dissertation Review Committee). University of Sydney, 2008 Present. *Predicting Fitness to Drive in People with Cognitive Impairment.* Anticipated graduation: Spring 2009
- Cristina Posse, (Dissertation Committee Member). Rehabilitation Science Doctoral Program, University of Florida, January 2006-December 2008: The Impact of Driving Rehabilitation Specialist Feedback and Recommendations on Older Adults' Driving Performance. Graduated: Fall 2008
- Frances Faucher, (Mentor: Honors Thesis). Bachelor of Health Science Honors Thesis Program, University of Florida, 2007-2008. *Parkinson's disease and driving*. Graduated: Spring 2008
- Michelle Turnbull, (Master of Occupational Therapy) Thesis Review Committee.
 Return to driving following stroke: Prevalence and associated factors, School of
 Clinical and Rehabilitative Sciences, Faculty of Health Sciences, University of
 Sydney, Graduated: Fall 2007
- Abbey Sipp, (Mentor: Honors Thesis). Bachelor of Health Science Honors Thesis Program, University of Florida, 2006-2007. *Do older drivers with fewer annual miles have worse driving abilities?* Graduated: Spring 2007
- Judy Hamby, (Mentor: Masters Thesis). Masters in Occupational Therapy Distance Learning Program, University of Florida. *Infusing Adult Learning Techniques Into Occupational Therapy Practice*. Graduated: Spring 2006

SERVICE ACTIVITIES

- Florida International University College of Nursing and Health Sciences Technology Committee, October 2008 - Present
- Florida International University College of Nursing and Health Sciences Faculty

- Affairs Committee, Fall 2008
- CarFit Event Coordinator training, May 2008
- CarFit Technical Volunteer: Miami, FL: September 2008; Sarasota, Fl: May 2008; Gainesville, FL: November 2007
- Strategic Planning Committee Member, University of Florida Center for Traffic Mitigation Studies, 2007-2008

HONORS AND AWARDS

- Service Recognition: Canadian Occupational Therapy Association, 2005
- Service Commendation: American Occupational Therapy Association, 2003-2005
- Predoctoral Training Program Trainee: Institute on Aging, University of Florida, 2002-2004
- Graduate Research Assistantship, Rehabilitation Science Doctoral Program, College of Public Health and Health Professions, University of Florida, 2002-2003
- North Broward Medical Center Service Recognition Awards: 1999, 2000, 2001
- Cum Laude, Florida, Florida International University, 1995
- North Broward Medical Center Student Scholarship Award: 1994, 1995

PROFESSIONAL AFFILIATIONS

- American Occupational Therapy Association
- American Society on Aging
- The Gerontological Society of America
- Transportation Research Board
- Canadian Driving Research Initiative for Vehicular Safety in the Elderly (CanDRIVE)
- International Traffic Medicine Association
- Florida Occupational Therapy Association