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EDUCATION

- Ph.D. University of South Florida, 1989
Doctor of Philosophy in Experimental Psychology
- M.A. University of South Florida, 1985
Master of Arts in Experimental Psychology
- M.A. University of the Pacific (California), 1979
Master of Arts in Experimental Psychology
- B.A. Central College (Iowa), 1976
Bachelor of Arts in Psychology

PROFESSIONAL EXPERIENCE

University of South Florida

Changes in Movement Variability and Functional Status in Veterans with Traumatic Brain Injury receiving rehabilitation in the JAHVA Polytrauma Transitional Rehabilitation Program (PTRP) and Student Veterans

Funding Agency: U.S. Department of Defense

Home Evaluation of Visual Exit Barriers in Dementia-Related Wandering

Funding Agency: U.S. Department of Veterans Affairs
Funding Level: \$405,280
Role in Project: Co-Principal Investigator
Description: Use of precision tracking systems to determine the effectiveness of two

Role in Project: Principal Investigator
Description: Investigate caregiver opinions on the potential effectiveness of existing

institutionalized older adults. *Journal of Visualized Experiments: JoVE*, (144), e58834.
<https://doi.org/10.3791/58834>

- Barakat, A., Woolrych, R., Kort, H. S. M., Sixsmith, A., & Kearns, W. D. (2013). E-Health technology competencies for health professionals working in home care to support older adults to age in place: Outcome of a two day collaborative workshop. *Medicine 2.0*, 2(2), e10-e-12. <https://doi.org/10.2196/med20.2711>
- Kearns, W. D., Jasiewicz, J. M., Fozard, J. L., Webster, P., Scott, S., Craighead, J., Bowen, M. E., McCarthy, J. (2013). Temporo-spacial prompting for persons with cognitive impairment using smart wrist-worn interface. *Journal of Rehabilitation Research and Development*, 50(10), vii-xiv. <https://doi.org/10.1682/JRRD.2013.12.0261>
- Applegarth, S.P, Rowe, M.R., Kearns, W.D, Fozard, J.L, Bowen, M.E. (2013) Activation thresholds and operating characteristics of commercial alarm products that may be used to provid

Affairs nursing home care units. *International Journal of Geriatric Psychiatry*, 25(2), 166-174. <https://doi.org/10.1002/gps.2316>.

Bronswijk, J., Bouma, H. H., Fozard, J. L., Kearns, W. D., Davison, G. C., & Tuan, P. C. (2009). Defining gerontechnology for R&D purposes. *Gerontechnology*, 8(1), 3-10. <https://doi.org/10.4017/gt.2009.08.01.002.00>.

Peters, R. H., Kearns, W. D., Murrin, M. R., Dolente, A. S., & May, R. L. (1993). Examining the effectiveness of in-jail substance abuse treatment. *Journal of Offender Rehabilitation*, 19(3-4), 1-39. https://doi.org/10.1300/J076v19n03_01

- Kearns, W. D., & Fozard, J. L. (2015). Smart homes, RFID and wandering. In J. van Hoof, G. Demiris & E. J. M. Wouters (Eds.), *Handbook of smart homes, health care and well-being* (pp. 1-8). Geneva, Switzerland: Springer International Publishing. https://dx.org/10.1007/978-3-319-01904-8_50-1
- Kearns, W., & Fozard, J. (2013). Location-aware technologies for studying resident paths and spatial usage patterns. In A. Joseph & U. Nanda (Eds.), *Development of tools for healthcare environments research and practice* (pp. 43-44). McLean, VA: Environmental Design Research Association.
- Kearns, W.D., & Fozard J. L. (2012). Tracking natural human movements identifies differences in cognition and health. In J. C. Augusto, M. Huch, A. Kameas, J. Maitland, P. McCullagh, J. Roberts, et al. (Eds.), *Handbook of ambient assisted living*, (pp. 331-345). Amsterdam, The Netherlands: IOS Press. <https://doi.org/10.3233/978-1-60750-837-3>.
- Kearns, W. D., Fozard, J. L., & Lamm, R. (2011). How knowing who where and when can change healthcare delivery. In C. Röcker, & M. Zieflean (/ -7 (201E9 (i) d0 ()-10 () 13 (.) -10 () -10J E

- Kearns, W. D., Mitchell, G., Kwak, J., & Kim, G. (2005). *Urban and rural HCBS service penetration in Florida*. Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute.
- Kearns, W. D. Mitchell, G., Kwak, J., & Kim, G. (2005). *Urban vs. rural access to health and mental health services in Florida* (Agency for Health Care Administration Report Series; AHCA Series No. 220). Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute.
- Chiriboga, D. A., Jang, Y., Becker, M. A., Chen, H.-J., Greenbaum, P. E., Brown, L. M. et al. (2005). *Mental health disparities in the state of Florida: An evaluation*. Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute.
- Chiriboga, D. A., Becker, M., Brown, L., Anderson, S., Cohen, D., Dupree, L. et al. (2005). *The Florida Alzheimer's disease Medicaid waiver program: An evaluation of Alzheimer's beneficiaries prior to program initiation* (Agency for Health Care Administration Report Series; AHCA Series No. 220-64). Tampa, FL: University of South Florida, Louis de la Parte Florida Mental Health Institute.
- Kearns, W. D. (1994). *Annual report for fiscal year 1993 juvenile justice community reentry program: A report to the State of Florida Department of Health and Rehabilitative Services*. Tampa, FL: University of South Florida, Florida Mental Health Institute.
- Kearns, W. D. (1993). *Annual report for fiscal year 1992 juvenile justice community reentry program: A report to the State of Florida Department of Health and Rehabilitative Services*. Tampa, FL: University of South Florida, Florida Mental Health Institute.
- Kearns, W. D. (1992). *Annual report for fiscal year 1991 juvenile justice community reentry program: A report to the State of Florida Department of Health and Rehabilitative Services*. Tampa, FL: University of South Florida, Florida Mental Health Institute.
- Kearns, W. D. (1991). *Annual report for fiscal year 1991 juvenile justice community reentry program: A report to the State of Florida Department of Health and Rehabilitative Services*. Tampa, FL: University of South Florida, Florida Mental Health Institute.

- Fozard, J. L., & Kearns, W. D. (2006). Persuasive gerontechnology: Reaping technology's coaching benefits at older age. In W. IJesslstein, Y. d. Kort, C. Midden, B. Eggen , & E. v. d. Hoven (Eds.), *Persuasive technology: First International Conference on Persuasive Technology for Human Well-Being* (pp. 199-202). Berlin, Germany: Springer-Verlag.
- Kearns, W. D. (2003). Streaming video databases in support of mental health education and training. In N. Callaos (Ed.), *Conference proceedings of the SCI 2003: The 7th world multiconference on systemics, cybernetics, and informatics: Volume III, Communication, network and control systems, technologies and applications* (pp. 1-3). Orlando, FL: International Institut

Kearns, W. (2018, May) *Longitudinal analysis of Alf resident wandering using real-time location services: Results of a yearlong study*. Paper presented at the 11th World Conference on Gerontechnology in St. Petersburg, Florida on May 7, 2018.

- making it/you safer. Panel presented at the meeting of the John K. Friesen Conference, Vancouver, BC, Canada.
- Kearns, W. D. (2015, April). *Precise RTLS in healthcare can yield new understanding and unexpected benefits*. In K. Mann (Chair), The US Department of Veterans Affairs Smart Home Project: Process, methods, and (unexpected) outcomes. Paper presented at the meeting of the Intelligent Health Association, Chicago, IL.
- Kearns, W. D., & Fozard, J. L. (2014, June). *An example of a university/government relationship in the North American chapter of the ISG*. In R. Woolrych (Chair) "Inter-university and inter-disciplinary collaboration in Gerontechnology: Lessons from North America." Symposium presented at the meeting of the International Society of Gerontechnology, Taipei, Taiwan.
- Fozard, J. L., & Kearns, W. D. (2014, June). *Talking, walking, and falling: Technology-based assessments and interventions*. Keynote presented at the meeting of the International Society of Gerontechnology, Taipei, Taiwan.
- Kearns, W.D., Fozard, J.L, Webster, P., & Jasiewicz, J. (2014, June). *Presenting on a Jaal. Wia.e*

- Kearns, W. D. (2012, May). *Transdisciplinary working*. Paper presented at the meeting of the Canadian Institutes of Health Research Institute on Aging's Summer Program on Aging, Vancouver, BC, Canada [Invited speaker].
- Kearns, W. D. (2012, May). *Publishing and dissemination*. Paper presented at the meeting of the Canadian Institutes of Health Research Institute on Aging's Summer Program on Aging, Vancouver, BC, Canada [Invited speaker].
- Kearns, W. D. (2012, May). *Developing practical solutions for older people*. Paper presented at the meeting of the Canadian Institutes of Health Research Institute on Aging's Summer Program on Aging, Vancouver, BC, Canada [Invited speaker].
- Kearns, W. D., & Fozard, J. L. (2012, March). *Locomotor variability and fall risk in seniors with dementia*. Paper presented at the meeting of the International Exchange of Research and Practice in e-Health (iKOP project) Seminar: "Competencies for e-Health Use," Tampa, FL [Invited speaker, joint conference between the University of Utrecht and USF].
- Kearns, W. & Craighead, J. (2010, September). *Location aware technologies: Implications for healthcare research and practice*. Paper presented at the meeting of the Ubisense User Conference at Jesus College, Cambridge University, UK.
- Kearns, W (2010, May). *Of falls and fractals: My career with my mentor, colleague and friend, Professor James L. Fozard*. Closing Plenary Speech presented at the meeting of the International Conference on Gerontechnology, Vancouver.
- Kearns W.D. (2010, May). Elder path tortuosity covaries with MMSE geographical orientation subscale. In C.G. Willems (Chair). Symposium "The use of activity monitoring in care for persons with dementia (Willems, C.G.). Paper presented at the meeting of the

- Consortium on Wandering and Adverse Events: VISN8 Patient Safety Center of Inquiry, Tampa, FL.
- Kearns, W. D. (2008, May). *Locomotor variability in ALF residents with A/D MCI*. Keynote speech delivered at the meeting of the International Conference on Gerontic Technology and Service Management (Nan Kai Institute of Technology), Nan Tou, Taiwan, ROC.
- Kearns, W. D. (2008, May). *Communications technology and the elderly*. Master class conducted at the meeting of the International Conference on Gerontic Technology and Service Management (Nan Kai Institute of Technology), Nan Tou, Taiwan, ROC.
- Fozard, J. L., & Kearns, W. D. (2008, June). *Communication technology changes how we age*. Paper presented at the meeting of the International Society for Gerontechnology, Pisa, Italy.
- Kearns, W. D. (2008, March). *Locomotor variability in ALF Residents with AD/MCI*. Paper presented at the meeting of the International Research Consortium on Wandering: VISN8 Patient Safety Center of Inquiry, Tampa, Florida.
- Kearns, W. D. (2007, May). *Sensor networks for healthcare monitoring of the elderly*. Paper presented at the meeting of the Chin Min Institute of Technology, Nantou, Taiwan, ROC.
- Kearns, W. D. (2007, May). *Sensor networks for healthcare monitoring of the elderly*. Paper presented at the meeting of the International Conference on Gerontechnology and Service Management, Nantou, Taiwan, ROC.
- Kearns, W. D., & Moore, D. (2007, June). *RFID: A novel measure of wandering in dementia*. Paper presented at the meeting of the Festival of International Conferences on Caregiving Disability and Technology, International Conference on Technology and Aging (FICCDAT/ICTA), Toronto, Ontario, Canada.
- Kearns, W. D., & Fozard, J. L. (2007). *Persuasive technologies which change attitudes and*

Kearns, W. D. (1988). *Cardiovascular concomitants of differential behavioral and motivational states in the telemetered baboon*. Paper presented at the meeting of the Beritashvili

- Kearns, W. D. (2002). *A demonstration of USF's Internet2 connection, and how it may be used to maximal effect*. Paper presented at the meeting of the Southeastern Association of Marine Laboratories & Mote Marine Institute National Shark Research Center, Sarasota, FL.
- Kearns, W. D. (2001, October). *Implications of the Health Insurance Portability and Accountability Act*. Paper presented at the meeting of the Association of Mental Health Librarians, Tampa, FL.
- Kearns, W. D. (2001). *USF's Internet2 Project: Advancing the Public Broadcasting System*. Paper presented at the meeting of the Higher Education Telecommunications Consortium, Tampa, FL.
- Kearns, W. D. (2001). *How to use USF's Internet2 connection to maximal effect*. Paper presented at the meeting of the Southeastern Association of Marine Laboratories & Mote Marine Institute National Shark Research Center, Sarasota, FL.
- Kearns, W. D. (2001). *Higher Education Television Consortium (HETC)/Internet2*. Paper presented at the meeting of the Higher Education Telecommunications Consortium, Madison, WI.
- Kearns, W. D. (2000). *Streaming video databases in support of mental health education and training*. Paper presented at the meeting of Internet2, Washington, DC.
- Peters, R. H., Kearns, W. D. S. J., Murrin, M., & Dolente, A. (1991). *Relapse prevention and skill acquisition among offenders referred for in-jail substance abuse treatment*. Paper presented at the meeting of the American Psychological Association (APA), San Francisco, CA.
- Peters, R. H., & Kearns, W. D. (1991). *Drug treatment needs of jail inmates*. Paper presented at the meeting of the American Psychological Association (APA), San Francisco, CA.
- Kearns, W. D. (1989). *Social avoidance behavior in baboons: Systemic and regional hemodynamics*. Paper presented at the meeting of the National Institutes on Aging, Baltimore, MD.

State

- Kearns, W. D. (2024, March). *Using statistics to improve library science research and services*. Workshop presented at the meeting of the Florida Health Sciences Library Association Conference, Orlando, FL.
- Kearns, W. D. (2007, June). *Provider effects on racial/ethnic disparity in the Florida Medicaid population*. Poster presented at the meeting of the Florida Medicaid Research Conference, Tallahassee, FL.
- Kearns, W. D. (2007, June). *Broadband networking and the new Gerontechnology or "What will I do when those fibers grow grey"*. Poster presented at the meeting of the Florida Medicaid Research Conference, Tallahassee, FL.

Local

- Kearns, W. D. (2001, March). *Internet2: High bandwidth networking at USF*. Paper presented at the meeting of the USF Symposium on 21st Century Teaching Technologies, Tampa, FL.
- Kearns, W. D., & Hanson, A. (2000, March). *From catalogue to video: The use of electronic media as curriculum and research support*. Workshop conducted at the meeting of the USF Symposium on 21st Century Teaching Technologies, Tampa, FL.

Kearns, W. D. (2000, March). *Streaming video databases in support of mental health education and training*. Paper presented at the meeting of USF Symposium on 21st Century Teaching Technologies, Tampa, FL.

Kearns, W. D. (1999, March). *The USF Internet 2 Project: High speed networking for the future*. Workshop conducted at

Grant Reviewer

National Institutes of Health Risk Prevention and Health (R12)	2016
National Institutes of Health Grants for Early Medical/Surgical Specialists' Transition to Aging Research (GEMSSTAR)	2015
Israeli Ministry of Science, Technology and Space	2015
Canadian Institutes of Health Stacie Prize Applications Banting Post-doctoral Fellowship Award	2014
Canada Foundation for Innovation Competition Infrastructure Grant (University of Toronto)	2014
Agency for Healthcare Research & Quality	2010
National Science Foundation	2009
USF Dept. of Research	2006

Conference Reviewer and Organizer Activities

International Society for Gerontechnology/International Association of Gerontology and Geriatrics (ISG/IAGG) Conference Chair, Organizing Committee, St. Petersburg	2016-2018
Executive Committee, Organizing Committee, Taiwan	2012-2014
Executive Committee, Organizing Committee, Eindhoven	2011-2012
Track Director, ISG/IAGG, Eindhoven	2011-2012
International Association for Development of the Information Society (IADIS) Scientific Papers Reviewer for eHealth	2009

Instructor, Psychophysiology Laboratory

SERVICE TO THE UNIVERSITY

CBCS Instructor Promotion Committee

2013-2018

Advanced Visualization Executive Committee

2012-2018

USF Cyber-