Laura Prouty Sands, PhD Isands@vt.edu

Department of Human Development Center for Gerontology 230 Grove Lane Virginia Tech Blacksburg, VA 24061

EDUCATION	
PhD in Quantitative Psychology University of California, Berkeley Berkeley, California	1981 – 1986
MA in Biostatistics School of Public Health University of California, Berkeley Berkeley, California	1983 – 1985
BA in Psychology University of California, Berkeley Berkeley, California	1979 – 1981
Psychology University of California, Santa Barbara Santa Barbara, California	1977 – 1979
ACADEMIC AND PROFESSIONAL EXPERIENCE	
Viscinia Teals (Dischause Viscinia)	
Virginia Tech (Blacksburg, Virginia)	
Professor, Department of Human Development and	2014 – Present
	2014 – Present 2015 – Present
Professor, Department of Human Development and Center for Gerontology	
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research,	2015 – Present
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research, School of Nursing	2015 – Present 2018 – Present 2010 – 2014
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research, School of Nursing Professor & Director of Research, School of Nursing	2015 – Present 2018 – Present 2010 – 2014 2007 – 2010
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research, School of Nursing	2015 – Present 2018 – Present 2010 – 2014
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research, School of Nursing Professor & Director of Research, School of Nursing	2015 – Present 2018 – Present 2010 – 2014 2007 – 2010
Professor, Department of Human Development and Center for Gerontology Faculty Affiliate, Department of Statistics Professor, Non-Tenure Track, VT Carilion School of Medicine Purdue University (West Lafayette, Indiana) Katherine Birck Professor of Nursing & Director of Research, School of Nursing Professor & Director of Research, School of Nursing Associate Professor, School of Nursing University of California, San Francisco (San Francisco, California) Associate Adjunct Professor of Medicine, Department of	2015 - Present 2018 - Present 2010 - 2014 2007 - 2010 2002 - 2007

June 12, 2024

Senior Research Associate, UCSF/Mt. Zion Center on Aging, Center for Clinical and Aging Services Research	1993 – 1998
Medical College of Pennsylvania (Philadelphia, Pennsylvania) Director, Behavioral Research, Department of Medicine, Division of Geriatrics	1991 – 1993
Philadelphia Geriatric Center (Philadelphia, Pennsylvania) Research Psychologist	1988 – 1991
Rutgers University (New Brunswick, New Jersey) Post-Doctoral Fellow, Institute for Health Care Policy and Aging Research	1986 – 1988
HONORS AND AWARDS	
Elected Honorary Member, Sigma Theta Tau National Nursing Honor Society	2014
Outstanding Professor for Interdisciplinary Mentoring, Center for Aging and the Life Course, Purdue University	2011
Seed for Success, Million Dollar Research Award, Purdue University	2010
Outstanding Graduate Teaching Award, School of Nursing, Purdue University	2009
Friend of Nursing, Sigma Theta Tau National Nursing Honor Society	2008
Faculty Enhancement Award, School of Nursing, Purdue University	2004
Fellow, The Gerontological Society of America	2003
Outstanding Teaching Assistant, Department of Psychology, University of California, Berkeley	1985
Graduated with Honors and Distinction in General Scholarship, University of California, Berkeley	1981
Outstanding Senior Woman, Panhellenic Association, University of California, Berkeley	1981
PROFESSIONAL MEMBERSHIPS AND INVOLVEMENT	
Alzheimer's & Related Diseases Research Award Fund:	

Reviewer: Research Awards to Scientists in Virginia

National Institute of Health:

Reviewer, Health Records, Research Infrastructure Development for Interdisciplinary Aging Studies PAR-23-053 and PAR-23-05	November 2, 2023 March 3, 2023	
Reviewer, Research Infrastructure Development for Interdisciplinary Aging Special Emphasis Panel	June 29, 2022	
Reviewer, Health Services: Research Infrastructure Development for Interdisciplinary Aging Studies	November 12, 2021	
Reviewer, Health Services: Quality and Effectiveness	March 1-2, 2021	
Reviewer, NIDDK Continuation of the DPPOS	August 13, 2020	
Reviewer, Interpersonal Processes in ADRD Scientific Review Group Special Emphasis Panel: ZRG1 HDM-D (56) R	March 18, 2020	
Reviewer, Small Research Grant Program for the Next Generation of Clinical Researchers in Alzheimer's Disease (AD), Scientific Review Group Special Emphasis Panel: NIH R03 RFA-AG-19-002	October 29, 2018	
Reviewer, Health Disparities in and Caregiving for Alzheimer's Disease, Scientific Review Group Special Emphasis Panel: ZRG1 HDM Y 57 R	June 22, 2016 October 28, 2016, June 25, 2018	
Ad hoc Reviewer, National Institute of General Medical Sciences, Support of Competitive Research Special Emphasis Panel: ZGM1 TWD-8	April 1, 2014	
Reviewer, Special Emphasis Panel, Population Sciences and Epidemiology, ZRG1 PSE-B 02 M	October 27-28, 2010	
Challenge Grant Reviewer, RFA OD-09-003ZRG1 PSE-J (58) R, and RFA OD-09-003, ZRG1 PSE-C (58) R	July 20, 2009	
Ad hoc Reviewer, Neurological, Aging and Musculoskeletal Epidemiology Revision Application Study Section	June 5, 2009	
Ad hoc Reviewer, Neurological, Aging and Musculoskeletal Epidemiology Study Section	June 16-17, 2008	
Ad hoc Reviewer, Health of the Population Member, Special Emphasis Panel	May 15, 2008	
National Institute of Nursing Research:		
Ad hoc Reviewer, Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive	October 1, 2015	

Impairment or Dementia (R01), Scientific Review Group Special Emphasis Panel: ZNR1 REV-T22

Ad hoc Reviewer, Assessing and Managing Symptoms in Individuals with Alzheimer's Disease, Scientific Review Group: ZNR1 REV-L 02 1

June 26, 2012

Department of Veterans Affairs:

Scientific Merit Review Board Reviewer, Department of Veterans February 13-14, 2013
Affairs Center of Innovation Initiative. HCN1 COIN Review, Arlington, VA

Scientific Merit Review Board Reviewer, Department of Veterans
Affairs Health Services Research and Development Service. CREATE,
HCR-4, Boston, MA

Alzheimer's Association:

Investigator Initiated Grant Review Panel 2005 – 2009

The Gerontological Society of America:

Member, Disaster and Older Adults Interest Group	2016 – Present
Member, Publications Committee	2015 - 2019
Member, Behavioral and Social Sciences Program Committee	2011 - 2012
Elected Member-At-Large, Behavioral and Social Sciences Section	2010 - 2012
Member	1986 – Present
Fellow	2003 – Present

American Geriatrics Society:

Member 2002 – 2010

Editorial Positions:

Editor-in-Chief, Innovation in Aging	2016 - 2020
Editorial Board Member, Innovation in Aging	2021 – Present
Editorial Board Member. The Gerontologist	2011 - 2016

Ad Hoc Reviews:

Ageing and Society
Alzheimer's and Dementia
Annals of Internal Medicine
Appetite
BMC Geriatrics
Health Services Research
Innovation in Aging
Journal of Aging and Health
Journal of Clinical Epidemiology

Journal of General Internal Medicine Journal of Geriatric Psychiatry and Neurology Journal of Gerontology: Medical Sciences Journal of Gerontology: Social Sciences Journal of the American Geriatrics Society Medical Care Psychology and Aging Quarterly Journal of Medicine Social Policy and Administration The American Journal of Geriatric Psychiatry The Gerontologist

RESEARCH GRANTS AWARDED	
<u>Current:</u>	
Virginia Public Guardianship and Conservator Program on health among caregivers. Virginia Department of Aging and Rehabilitative Se, Department of Health & Human Services, (\$195,000). Teaster, P (MPI, 65%), Sands LP (MPI, 15%), Roberto Karen A (MPI 10%), Shealy Elizabeth C (MPI 10%)	2022 – 2024
Examination of the Aging Life Care Association. Aging Life Care Association, (USD 55,000). Teaster P MPI, Sands LP MPI 25%, Shealy EC. MPI	2022 – 2024
Clinically Assessed Risk Factors for a Second ACL Injury Using an Innovative Wearable Sensor. National Institute of Arthritis and Musculoskeletal and Skin Diseases R01AR078811 (\$3,459,768) Queen R, Principal Investigator; Sands LP, Co-Investigator	2021 – 2026
Virginia Lifespan Respite Voucher Program. Virginia Department of Aging and Rehabilitative Services. Department of Health and Human Services. 90LRLI0041 (\$1,725,280) Slentz N, Principal Investigator; Sands LP, Evaluator.	2021 – 2026
Completed:	
A multidimensional approach to studying the impact of caregiving on health among caregivers. National Institute on Aging R21AG072395 (\$445,288) Cho J, Principal Investigator, Sands LP, Co-Investigator	2021 – 2023
The role of genomics in postoperative delirium and sedation National Institutes of Nursing Research, R01NR017622 (\$2,184,463) Leung J, Principal Investigator; Sands LP, Co-Investigator	2019 – 2022
Plasma markers of Alzheimer's disease and changes in postoperative	2021 – 2022

Cognition National Institute of Nursing Research, R01NR017622. S1 (\$403,394) Leung, Principal Investigator; **Sands LP**, Co-Investigator

Acute preoperative sleep disruption and postoperative delirium National Institute on Aging, R21AG53715 (\$237,331) Leung J, Principal Investigator; Sands LP , Co-Investigator	2017 – 2021
Effects of Hurricane Sandy on functional limitation trajectories of older people. National Institute on Aging, R01AG046463 (\$2,321,562) Pruchno R, Principal Investigator, Sands LP, Co-Investigator	2015 – 2021
The effects of light vs deep anesthesia on postoperative cognitive outcomes National Institute on Aging, R21AG048456 (\$444,033) Leung J, Principal Investigator; Sands LP , Co-Investigator	2015 – 2017
Health consequences of disaster-related disruptions in home and community-based supports U.S. Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response, HITEP150028-01-00 (\$268,527) Pruchno R, Principal Investigator, Sands LP, Co-Investigator	2015 – 2017
Social capital and resilience of older people exposed to Hurricane Sandy U.S. Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response, HITEP130008 (\$681,289) Pruchno R, Principal Investigator, Sands LP , Co-Investigator	2013 – 2015
Assessment of patient centered care Edith Nourse Rogers Memorial Veterans Hospital (\$53,000) Sands LP, Contractor	2013 – 2015
Prognostic significance of insufficient ADL help on health outcomes/utilization National Institute on Aging, R01AG034160 (\$1,112,313) Sands LP, Principal Investigator	2010 – 2015
Improving assessment of patient preferences in localized prostate cancer Contract from the San Francisco Veterans Affairs Medical Center to Purdue University (\$30,000) Sands LP, Principal Investigator	2010 – 2011
Pathophysiology of post-operative delirium in older patients National Institute on Aging, R01AG031795 (\$2,880,865); Subcontract to Purdue University (\$247,691) Leung JM, Principal Investigator, Sands LP , Co-Investigator	2009 – 2014
Interdisciplinary research on aging and the life course National Institute on Aging, T32AG025671 (\$132,000)	2009 – 2011

Ferraro KI	7. Principal	Investigator,	Sands LP.	Co-Investigator

The impact of no-show behavior on diabetes management Regenestrief Center for Healthcare Engineering Seed Grant, Discovery Park, Purdue University (\$40,000) Sands LP, Principal Investigator	2009 – 2010
Risks for poor surgical outcomes among elderly patients Regenstrief Center for Healthcare Engineering Seed Grant, Discovery Park, Purdue University. (\$64,377) Sands L, Principal Investigator	2008 – 2009
Impact of insufficient community-based long term care on Medicare expenditure Regenestrief Center for Healthcare Engineering Seed Grant, Discovery Park, Purdue University (\$39,655) Sands L, Principal Investigator	s 2008
Effects of gain- vs. loss-framed sun protection messages on rural Indiana adolescents National Cancer Institute, R03CA128483 (\$146,669) Cho H, Principal Investigator, Sands L , Co-Investigator/Mentor	2007 – 2009
Patient scheduling for primary care clinics: Theory and implementation National Science Foundation, NSF0729463 (\$459,334) Lawley M, Principal Investigator, Sands L , Co-Investigator	2007 – 2010
Evaluating community-based long-term care for dementia patients Alzheimer's Association, IIRG-06-27339 (\$239,961) Sands L, Principal Investigator	2006 – 2009
Improving assessment of patient preferences in localized prostate cancer Department of Veterans Affairs, Health Services Research and Development Service, IIR 02-142 (\$774,457) Knight S, Principal Investigator, Sands LP , Co-Investigator	2004 – 2008
Progressive functional loss in elders with dependencies National Institute on Aging, R01AG022090 (\$452,200) Sands LP, Principal Investigator	2004 – 2009
Optimizing function in nursing home residents with moderate to severe dementia: influence of exercise and staff education Indiana Division of Disability, Aging, and Rehabilitative Services (\$22,692) Edwards N, Principal Investigator, Sands LP , Co-Investigator	2004 – 2005
A multimedia integrated learning tool for clinical nursing education Purdue University ITaP Instructional Computing Services (\$30,000) Chang K, Principal Investigator, Sands LP , Co-Investigator	2003 – 2004
Evaluating outcomes of adult day services Retirement Research Foundation 98-172 (\$900,000) Dowling G, Principal Investigator, Sands LP , Co-Investigator	2002 – 2004

Aging and perioperative outcomes National Institute on Aging, HK24AG00948 (\$638,761) Leung J, Principal Investigator, Sands LP , Co-Investigator	2002 – 2006
Phone mail care system for homeless veterans San Francisco Veterans Affairs Medical Center (\$14,000) Alderman M, Principal Investigator, Sands LP , Consultant	2002 – 2004
Comprehensive outcomes of nonmelanoma skin cancer Department of Veterans Affairs, Health Services Research and Development Service, IIR97-010 (\$476,500) Chren MM, Principal Investigator, Sands L , Co-Investigator	1998 – 2002
Evaluation of the identification and early intervention program California HealthCare Foundation, LAS001DRG (\$745,000) Landefeld CS, Principal Investigator, Sands LP , Co-Investigator	1998 – 2000
Pain management and behavioral outcomes in patients with dementia Department of Veterans Affairs, NRI-951922 (\$221,900) Buffum M, Principal Investigator, Sands L , Co-Investigator	1997 – 2000
Longitudinal study of adrenocorticoids and functioning in Alzheimer's Disease Alzheimer's Association, 11R6-95-174 (\$148,835) Wolkowitz O, Principal Investigator, Sands L , Co-Investigator	1995 – 1998
Detecting acute cognitive change in Alzheimer's patients National Institute on Aging, NIAR29AG11966 (\$343,393) Sands LP, Principal Investigator	1993 – 1998
Delirium reconsidered: Acute cognitive change in the aged National Institute on Aging, NIAAG11234 (\$741,609) Ira Katz, Principal Investigator, Sands L , Co-Investigator	1992 – 1997
Monitoring the elderly for cognitive change Philadelphia Geriatric Center Clinical Research Center Pilot Grant, NIMH40380 (\$97,678) Sands LP, Principal Investigator	1991 – 1993
The effects of diabetes on older adults cognitive functioning Philadelphia Geriatric Center Biomedical Pilot Grant of the National Institutes of Health Teaching Nursing Home Research Core, NIHAG03934 (\$5,000) Sands LP, Principal Investigator	1989

REFEREED PUBLICATIONS (*STUDENT, FELLOW, OR FACULTY MENTEE AT THE TIME OF PUBLICATION)

- 161. Leung J, Rojas JC, **Sands LP**, Chan, B, Rajbanshi B, Du Z, Du P, and the Perioperative Medicine Research group. Plasma SOMAmer proteomics of postoperative delirium. *Brain and Behavior*, 2024, Doi: 10.1002/brb3.3422.
- 160. Yang L*, Do Q*, Zhu X*, Leung JM, **Sands LP**. Assessing Patterns of Delirium Symptoms Reveals a Novel Subtype Among Elective Surgical Patients with Postoperative Delirium. *International Journal of Geriatric Psychiatry*, 2024, Doi:10.1002/gps.6049.
- 159. Restrepo F*, Mali N*, **Sands LP**, Abraham A, Goldberg DM, Gruss R, Zaman N, Shields W, Omaki E, Ehsani J, Ractham P, Kaewkitipong L. Defective assistive device involvement in older adult Emergency Department visits. *Innovation in Aging*, 2024, Doi:10.1093/geroni/igad138
- 158. Cho J*, **Sands L**, Stevens A, Allore H, Horstman M. Profile of caregiving activities and association with physical health among dementia spousal caregivers. *Innovation in Aging*, 2023, Doi: 10.1093/geroni/igad104.2526.
- 157. Pruchno R, **Sands LP**, Cartwright FP, Rose M, Zhu X*. Subjective Successful Aging Predicts Probability of Mortality Over 9 Years Among Adults Aged 50-74. *The Gerontologist*, 2023, Doi: 10.1093/geront/gnad148
- 156. Leung JM, Rojas JC, Tang C, Chan B, Lario-Lago A, Boxer AL, Do Q, Kramer JH, Du Z, Du P, **Sands LP**. Presence of Preoperative Neurodegeneration Biofluid Markers in Patients with Postoperative Delirium. *Anesthesiology*, 2023, Doi: 10.1097/ALN.0000000000004666
- 155. Leung JM, Tang C, Quyen Do*, **Sands LP**, Tran D, Lee KA. Sleep Loss the Night Before Surgery and the Incidence of Postoperative Delirium in Adults 65-95 Years of Age. *Sleep Medicine*, 2023, Doi: 10.1016/j.sleep.201303.015.
- 154. Renner K*, Delaney C, Hill C, **Sands L**, Queen R. Predicting Post-Total Ankle Arthroplasty Walking Speed Based on Pre-Operative Gait Mechanics. *Journal of Orthopaedic Research*, 2023, Doi: 10.1002/jor.25544.
- 153. Mali N*, Restrepo F*, Abrahams A, **Sands L**, Goldberg DM, Gruss R, Zaman N, Shields W, Omaki E, Ehsani J, Ractham P, Kaewkitipong LJ. Safety Concerns in Mobility-Assistive Products for Older Adults: Content Analysis of Online Reviews. *Med Internet Res*, 2023, doi: 10.2196/42231. PMID: 36862459
- 152. Ferraro KF, Sauerteig-Rolston, MR, Barnes LL, Friedman E, **Sands LP**, Thomas PA. Subjective memory decline predicts incident cognitive impairment among White—but Not Black or Hispanic—older adults. *The Gerontologist*, 2022, Doi: 10.1093/geront/gnac086.
- 151. Restrepo F*, Mali N*, **Sands LP**, Abrahams A, Goldberg DM, White J, Prieto L, Ractham P, Gruss R, Zaman N, Ehsani JP. Injury prevention for older adults: A dataset of safety concern narratives from online reviews of mobility-related products. *Data in Brief*, 2022, Doi:10.1016/j.dib.2022.108044.
- 150. Hill CN*, Schmitt D, Reed W, Arent SM, **Sands LP**, Queen RM. Racial differences in running and landing measures associated with injury risk vary by sex. *Sports Biomechanics*, 2022. Doi: 10.1080/14763141.2022.2056075.
- 149. **Sands LP**, Do Q*, Du P, Pruchno R. Peritraumatic stress from a disaster increases risk for onset of chronic diseases among older adults. *Innovation in Aging*, 2022:6(1). Doi:10.1093/geroni/igab052.

- 148. **Sands LP**, Do Q*, Du P, Xu Y, Pruchno R. Long term impact of Hurricane Sandy on hospital admissions of older adults. *Social Science & Medicine*, 2022:293;114659. Doi: 10.1016/j.socscimed.2021.114659
- 147. Wang ML,* Min J,* **Sands LP**, Leung JM. Midazolam premedication immediately before surgery is not associated with early post-operative delirium. *Anesthesia and Analgesia*, 2021:133:3. Doi: 10.1213/ANE.000000000005482.
- 146. Tabatabai S,* Do Q,* Min J,* Tang, Pleasants, D, **Sands LP**. Du, P, Leung, JM. Obesity and perioperative outcomes in older surgical patients undergoing elective spine and major arthroplasty. *Journal of Clinical Anesthesia*, 2021:75. Doi: 10.1016/j.jclinane.2021.110475.
- 145. Tran D, Tang C, Tabatabai S, Pleasants D, Choukalas C, Min J*, Do Q*, **Sands L**, Lee K, Leung JM. The impact of surgery duration and surgery end time on postoperative sleep in older adults. *Journal of Sleep Disorders and Management*, 2021:7(2). Doi: 10.23937/2572-4053.1510034.
- 144. Hill CN*, Reed W, Schmitt D, Arent S, **Sands LP**, Queen RM. Factors Contributing to Racial Differences in Gait Mechanics Differ by Sex. *Gait and Posture*, doi:10.1016/j.gaitpost.2021.02.024.
- 143. Wood E, Teaster P, **Sands L.** How does Social Security select representative payees for adults? Results of an independent study. *Bifocal: Journal of the American Bar Association Commission on Law and Aging*, 2021; 42:3.
- 142. **Sands LP**. With gratitude from the inaugural Editor-in-Chief of Innovation in Aging. *Innovation in Aging*, 2020:4:6. doi:101093/geroni/igaa062.
- 141. Hill CN,* Reed W, Schmitt D, **Sands LP**, Queen RM. Racial Differences in Gait Mechanics. *Journal of Biomechanics*, 2020:112:9. doi:10.1016/j.jbiomech.20.110070.
- 140. **Sands LP**, Albert SM, Suitor, JJ. Understanding and addressing older adults' needs during COVID-19. *Innovation in Aging*, 2020:4:3. doi: 10.1093/geroni/igaa019.
- 139. Ziman N,* **Sands LP**, Tang C, *Zhu J, Leung JM. Does postoperative delirium following elective noncardiac surgery predict long-term mortality? *Age and Ageing*, 2020:49:6. doi: 10.1093/ageing/afaa047.
- 138. Tang CJ,* Jin Z,* **Sands LP**, Pleassants D, Tabatabai S, Hong Y, Leung JM. ADAPT-2: A randomized clinical trial to reduce intraoperative EEG suppression in older surgical patients undergoing major noncardiac surgery. *Anesthesia and Analgesia*, 2020:141:4. doi: 10.1213/ane.0000000000004713.
- 137. Peebles AT,* Ford KR, Taylor JB, Hart JM, **Sands LP**, Queen RM. Using force sensing insoles to predict kinetic knee symmetry during a stop jump. *Journal of Biomechanics*. 2019:95:11. doi: 10.1016/j.biomech.2019.07.037.
- 136. Kinjo S,* Lim E, Magsaysay MV, **Sands LP**, Leung JM. Volatile anesthetics and postoperative delirium in older surgical patients: A secondary analysis of prospective cohort studies. *Act Anaesthesiol Scand*. 2019:63:18-26. doi: 10.1111/aas.13227

- 135. Ogletree A,* Brennan-Ing, M, Blieszner, R, Karpiak S, **Sands, L.** Health burden, instrumental and emotional support adequacy, and depressive symptoms in older men with HIV. The Gerontologist. 2019:6:1131-1140. doi:10.1093/geront/gny169
- 134. MacKenzie KK, Britt-Spells AM*, **Sands, LP**, Leung JM. Processed electroencephalogram monitoring and postoperative delirium: A systematic review and meta-analysis. *Anesthesiology*. 2018:129(3):417–427. doi:10.1097/ALN.000000000002323
- 133. Britt-Spells AM*, Slebodnik M, **Sands LP**, Rollock D. Effects of perceived discrimination on depressive symptoms among black men residing in the United States: A meta-analysis. *American Journal of Men's Health*. 2018;12(1):52-63. doi:10/10.1177/1557988315624509
- **132. Sands LP**, Xie Y*, Pruchno R, Heid A, Hong Y. Older adults' healthcare utilization a year after experiencing fear or distress from Hurricane Sandy. *Disaster Medicine and Public Health Preparedness*. 2018. doi:10.1017/dmp.2017.134
- 131. Abrahamson K, Hass Z*, **Sands L**. Likelihood that expectations of informal care will be met at onset of caregiving need: A retrospective study of older adults in the USA. *BMJ Open*. 2017;7(12):e017791. doi:10:1136/bmjopen-2017-017791
- 130. **Sands LP**, Suitor JJ, Albert SM. Welcome to Innovation in Aging. *Innovation in Aging*. 2017;1(1). doi:10.1093/geroni/igx001
- 129. Hass Z*, DePalma G*, Craig BA, Xu H*, **Sands LP**. Unmet need for help with activities of daily living disabilities and emergency department admissions among older Medicare recipients. *The Gerontologist*. 2017;57(2):206-210. doi:10:1093/geront/gnv142
- 128. Mulhofer WG, Zak R, Kamal T, Rizvi B, **Sands LP**, Yuan M, Zhang X, Leung, JM. Burst-suppression ratio underestimates absolute duration of electroencephalogram suppression compared with visual analysis of intraoperative electroencephalogram. *British Journal of Anesthesia*. 2017;118(5):755-761. doi:10.1093/bja/aex054
- 127. Leung JM, **Sands LP**, Chen N, Ames C, Berven S, Bozic K, Burch S, Chou D, Covinsky K, Deviren V, Kingo S, Kramer JH, Ries M, Tay B, Vail T, Weinstein P, Chang S, Meckler G, Newman S, Tsai T, Voss V, Youngbloom E, Perioperative Medicine Research Group. Perioperative Gabapentin does not reduce postoperative delirium in older spinal patient: A randomized clinical trial. *Anesthesiology*. 2017;127(4):633-644. doi:10.1097/ALN.0000000000001804
- 126. McComb S, Tian Z, **Sands L**, Turkcan A, Zhang L, Frazier S, Lawley M. Cancelled primary care appointments: A prospective cohort study of diabetic patients. *Journal of Medical Systems*. 2017;41(53). doi:10.1007/s10916-017-0700-0.
- 125. Hirsch J, Vacas S, Terrando N, Yuan M*, **Sands LP**, Kramer J, Bozic K, Maze MM, Leung JM. Perioperative cerebrospinal fluid and plasma inflammatory markers after orthopedic surgery. *Journal of Neuroinflammation*. 2016;13(1):211. doi:10.1186/s12974-016-0681-9
- 124. Kim JE*, OConnor LE, **Sands LP**, Slebodnik MB, Campbell WW. Effects of dietary protein intake on body composition changes after weight loss in older adults: A systematic review and meta-analysis. *Nutrition Reviews*. 2016;74(3):210-224. doi:10.1093/nutrit/nuv065

- 123. Hass Z*, Levine M, **Sands L**, Xu H. The modeling of medical expenditure data from a longitudinal survey using the generalized methods of moments (GMM) approach. *Statistics in Medicine*. 2014;35(15):2652-2664. doi:10.1002/sim.6878
- 122. Nuti L*, Turkcan A, Lawley MA, Zhang L, **Sands L**, McComb S. The impact of interventions on appointment and clinical outcomes for individuals with diabetes: A systematic review. *BMC Health Services Research*. 2015;15:355. doi:10.1186/S12913-015-0938-5
- 121. Adeola MT*, Baird CL, **Sands L**, Longoria N, Henry U, Nielsen J, Shields CG. Active despite pain: Patient experiences with guided imagery with relaxation compared to planned rest. *Clinical journal of Oncology Nursing*. 2015;19(6):649-652. doi:10.1188/15.CJON.649-652
- 120. Shim J, DePalma G*, **Sands LP**, Leung J. Prognostic significance of postoperative subsyndromal delirium. *Psychosomatics*. 2015;56(6):644-651. doi:10:1016/j.psym.2015.05.002
- 119. Leung JM, **Sands LP**, Newman S, Meckler G, Xie Y*, Gay C, Lee K. Preoperative sleep disruption and postoperative delirium. *Journal of Clinical Sleep Medicine*. 2015;11(8):907-13. doi:10.5664/jcsm.4944
- 118. He S*, Craig BA, Xu H, Covinsky KE, Stallard E, Thomas J, Hass Z*, **Sands LP**. Unmet need for ADL assistance is associated with mortality among older adults with mild disability. *Journals of Gerontology: Medical Sciences*. 2015;70(9):1128-1132. doi:10.1093/gerona/glv028
- 117. Hirsch J, DePalma G*, Tsai TT, **Sands LP**, Leung JM. Impact of intraoperative hypotension and blood pressure fluctuations on early postoperative delirium after non-cardiac surgery. *British Journal Anesthesia*. 2015;115(3):418-426. doi:10.1093/bja/aeu458
- 116. Young J*, Lee M, **Sands LP**, McComb S. Nursing activities and factors influential to nurse staffing decision-making. *Journal of Hospital Administration*. 2015;4(4):24-31. doi:10.5430/jha.v4n4p24
- 115. Foli KJ, Lim E*, **Sands L**. Comparison of relative and non-relative adoptive parent health status. *Western Journal of Nursing Research*. 2015;37(3):320-41. doi:10.1177/0193945913511708
- 114. Hebdon M*, Abrahamson K, McComb S, **Sands L**. Transitioning patients to survivorship care: A systematic review. *Oncology Nursing Forum*. 2014;41(6):615-625. doi:10.1188/14
- 113. Youngblom E, De Palma G*, **Sands LP**, Leung JM. The temporal relationship between early postoperative delirium and POCD in older patients: A prospective cohort study. *Canadian Journal of Anesthesia*. 2014;61(12):1084-1092
- 112. Foli KJ*, Lim E, South SC, **Sands LP**. 'Great expectations' of adoptive parents: Theory extension through structural equation modeling. *Nursing Research*. 2014;63(1):14-25. doi:10.1097/NNR.000000000000000
- 111. Xu H*, Daggy J, Yu D, Craig B, Sands LP. Joint modeling of medical cost and survival in complex sample surveys. *Statistics in Medicine*. 2013;32(9):1509-23. doi:10.1002/sim.5617
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- 3. **Sands LP**, Meredith W. Effects of sensory and motor functioning on intellectual performance. *Journal of Gerontology*. 1989;44(2):56-58. doi:10.1093/geronj/44.2.P56
- 2. **Sands LP**, Terry H, Meredith WM. Change and stability in adult intellectual functioning assessed by Wechsler item responses. *Psychology and Aging*. 1989;4(1):79-87. doi:10.1037/0882-7974.4.1.79
- 1. Meredith W, **Sands LP**. A note on latent trait theory and Bowker's test. *Psychometrika*. 1987;52:269-271. doi:10.1007/BF02294240

BOOK CHAPTERS

Turkcan A, Nuti L, DeLaurentis P-C, Tian Z, Daggy J, Zhang L, Lawley M, **Sands L**. No-show modeling for adult ambulatory clinics. In Denton BT, eds. *Handbook of Healthcare Operations Management: Methods and Applications*. 1st ed. New York, NY: Springer; 2013.

SELECTED PEER REVIEWED PRESENTATIONS AT INTERNATIONAL MEETINGS

- **Sands LP,** Khan M, Du P. Risks and Health Outcomes of New Onset of Unmet Needs for Help with Activities of Daily Living. Presented at: The 75rd Annual Scientific Meeting of The Gerontological Society of America; November 2023; Tampa, FL.
- **Sands LP,** Du P, Do Q, Xu Y, Pruchno. Impact of Hurricane Sandy on hospital admission two years later. Presented at: The 73rd Annual Scientific Meeting of The Gerontological Society of America; November 2021; online.
- Sharmin F, **Sands LP**. Older adults' adoption of mobility devices: Interplay of predisposing factors and precipitating health events. Presented at: The 72nd Annual Scientific Meeting of The Gerontological Society of America; November 2020; online.
- **Sands LP**. How to publish: How to choose a journal. Presented at: The 72nd Annual Scientific Meeting of The Gerontological Society of America; November 2020; online.
- **Sands LP**. How to publish: From Start to Finish and Beyond. Presented at: The 71th Annual Scientific Meeting of The Gerontological Society of America; November 2018; Austin, TX.
- **Sands LP**, Savla, J, Savla, J, Erraguntla, M, Lawley, M. Change in unmet needs for daily mobility and self-care activities and future health outcomes. The 71th Annual Scientific Meeting of The Gerontological Society of America; November 2018; Austin, TX. Innovation in Aging. Innovation in Aging 2019:3:S1. Doi: 10.1093/geroni/igz038.
- **Sands LP**, Phinney A. Improving Knowledge Dissemination in Aging Research: Understanding our Roles in the Peer Review Process. 48th Scientific and Educational Meeting of the Canadian Association on Gerontology, Moncton, New Brunswick, Canada, 2019.
- **Sands LP**. How to publish: From Start to Finish and Beyond. Presented at: The 70th Annual Scientific Meeting of The Gerontological Society of America; November 2018; Boston, MA.

- **Sands LP**. How to publish in GSA Journals. Presented at: The International Conference Aging Across Time and Contexts. The Chinese University of Hong Kong; May, 2018; Hong Kong.
- **Sands LP**. Decline in Medicaid wavier services after Hurricane Sandy increases risk-adjusted hospitalization. Presented at: The 21st International Association of Gerontology and Geriatrics World Congress; July 2017; San Francisco, CA.
- **Sands LP**. How to publish: Editors' perspectives. Presented at: The 21st International Association of Gerontology and Geriatrics World Congress; July 2017; San Francisco, CA.
- **Sands LP**. GSA's New Open Access Journal: *Innovation in Aging*. Presented at: The 69th Annual Scientific Meeting of The Gerontological Society of America; November 2016; New Orleans, LA.
- Ogletree AM*, Blieszner R, Pruchno R, **Sands LP**. Life events, public and private religious practices, and depression in the second half of life. Presented at: The 69th Annual Scientific Meeting of The Gerontological Society of America; November 2016; New Orleans, LA.
- **Sands LP**, Xie Y, Pruchno R, Heid AR, Wilson-Genderson M. Self-reports of distress and fear from Hurricane Sandy predict health care utilization a year later. Presented at: The 69th Annual Scientific Meeting of The Gerontological Society of America; November 2016; New Orleans, LA.
- **Sands LP**, Xie Y, Yuan M, Hong Y. Change in reports of unmet need for help with ADL or mobility disabilities across three years. Presented at: The 68th Annual Scientific Meeting of The Gerontological Society of America; November 2015; Orlando, FL.
- Hass Z*, **Sands LP**. Resolution of unmet need for assistance with ADL disabilities reduces risk for falling. Presented at: The 67th Annual Scientific Meeting of The Gerontological Society of America; November 2014; Washington, DC.
- **Sands LP**. Development and validation of a risk scoring system to identify older adults at risk for unmet need for ADL disabilities. Presented at: The 66th Annual Scientific Meeting of The Gerontological Society of America; November 2013; New Orleans, LA.
- DePalma G*, Sands LP. Help for ADL difficulties and future emergency department utilization. Presented at: The 65th Annual Scientific Meeting of The Gerontological Society of America; November 2012; San Diego, CA.
- He S*, Xu H, Craig B, Stallard E, Sands LP. Unmet need for ADL disability and risk of undesired transitions. Presented at: The 65th Annual Scientific Meeting of The Gerontological Society of America; November 2012; San Diego, CA.
- DeCrane S*, **Sands LP**, Young K. Impact of Missing data on analysis of postoperative cognitive decline (POCD) Presented at: The 64th Annual Scientific Meeting of The Gerontological Society of America; November 2011; Boston, MA.
- DePalma G*, Xu H, Covinsky KE, Craig BA, Stallard PE, Thomas III J, **Sands LP**. Insufficient ADL help and hospital readmission. Presented at: The 64th Annual Scientific Meeting of The Gerontological Society of America; November 2011; Boston, MA.

- He S*, Xu H, **Sands LP**, Stallard PE, Craig BA, Thomas III J, Covinsky KE. Insufficient personal assistance for ADL disability and risk for death among community-living older adults. Presented at: The 64th Annual Scientific Meeting of The Gerontological Society of America; November 2011; Boston, MA.
- Yu D*, Xu H, Stallard PEJ, **Sands LP**, Craig BA, Covinsky KE, Thomas III J. Insufficient help for ALDs disabilities and Medicare expenditures. Presented at: The 64th Annual Scientific Meeting of The Gerontological Society of America; November 2011; Boston, MA.
- Pressler KA*, Sands LP, Ferraro K. Do mobility assistive devices prevent hospitalizations for accidental falls or injuries among older adults? Presented at: The 63rd Annual Scientific Meeting of The Gerontological Society of America; November 2010; New Orleans, LA.
- **Sands LP**. Insufficient personal assistance for ADL disability and risk for hospitalization among community-living older adults. Presented at: The 63rd Annual Scientific Meeting of The Gerontological Society of America; November 2010; New Orleans, LA.
- **Sands LP**. Psychometric evaluation of a patient preferences index. Presented during the preconference workshop: "Understanding Patient Preferences for Prevention and treatment" to the 31st Annual Society of Behavioral Medicine; 2010; Seattle, WA.
- Pressler KA*, **Sands LP**, Ferraro KF. Disease, disability, and devices: What determines older adults' adoption of mobility assistive devices? Presented at: The 62nd Annual Scientific Meeting of The Gerontological Society of America; November 2009; New Orleans, LA.
- **Sands LP**, Xu H. Identifying individuals in need of full-time caregiving. Presented at: The 62nd Annual Scientific Meeting of The Gerontological Society of America; November 2009; Atlanta, GA.
- Schmitt EM, **Sands LP**, Weiss S, Dowling G, Covinsky K. Quality of life and adult day health center participation. Presented at: The 62nd Annual Scientific Meeting of The Gerontological Society of America; November 2009; Atlanta, GA.
- **Sands LP**, Xu H, Weiner M, Doebbeling C, Rosenman M, Craig B, Thomas J. Amount of formal caregiving is associated with risk for hospital and nursing home admissions. Presented to: the 19th International Association of Gerontology and Geriatrics World Congress of Gerontology and Geriatrics; July 2009; Paris, France.
- Xu H and **Sands LP**. Identifying Community-living ADL-disabled Adults who need full-time help. Presented at: The 2009 meeting of the American Geriatrics Society; 2009; Chicago, IL.
- **Sands LP**, Xu H, Paul S, Weiner M, Doebelling C, Hancock E, Thomas J. Amount of attendant care is associated with risk of hospitalization among Medicaid waiver recipients with dementia. Presented at: The 61th Annual Scientific Meeting of The Gerontological Society of America; November 2008; National Harbor, MD.
- **Sands LP**, Daggy J, Campbell W, Flynn M, Lemon A. Obesity and need for long-term care services. Presented at: The 2008 meeting of the American Geriatrics Society; November 2008; Washington, DC.
- **Sands LP**, Xu H, Weiner M, Rosenman M, Craig B, Thomas J. Amount of home care services is associated with time to institutionalization among Medicaid patients with dementia. Presented at: The 60th Annual Scientific Meeting of The Gerontological Society of America; November 2007; San Francisco, CA.

- **Sands LP**, Xu H, Weiner M, Rosenman M, Craig B, Thomas J. Volume of home care received and nursing home admission among community-dwelling Medicaid members with dementia. Presented at: The 2007 meeting of the American Geriatrics Society; November 2007; Seattle, WA.
- **Sands LP**, Xu H, Weiner M, Rosenmann M, Craig B, Thomas J. Home and community based services as alternatives to nursing-home care for Medicaid recipients with dementia. Presented at: The 59th Annual Scientific Meeting of The Gerontological Society of America; November 2006; Dallas, TX.
- Sink KM, Thomas J, Kritchevsky SB, Craig BA, **Sands LP**. Concomitant use of cholinesterase inhibitors and bladder anticholinergies accelerates functional decline. Presented at: The 2006 meeting of the American Geriatrics Society; 2006; Chicago, IL. *Dr. Sink received the New Investigator Award for this presentation.
- **Sands LP**, Xu H, Craig B, Eng C, Covinsky K. A prognostic model to predict death three months in frail, community-living older adults. Presented at: The 2006 meeting of the American Geriatrics Society; November 2006; Chicago, IL.
- Xu H, **Sands LP**, Craig B, Eng C, Covinsky K. Determinants of change in ADL functioning over quarterly intervals in frail elders. Presented at: The 58th Annual Scientific Meeting of The Gerontological Society of America; November 2005; New Orleans, LA.
- Wang Y, Sands LP, Vaurrio L, Mullen A, Leung J. Effect of postoperative analgesia on post-operative cognitive decline. Presented at: The 58th Annual Scientific Meeting of The Gerontological Society of America; November 2005; New Orleans, LA.
- **Sands LP**, Moody-Ayers S, Eng C, Covinsky K. Does provision of all-inclusive care reduce functional disparities between black and white frail elders? Presented at: The 2005 meeting of the American Geriatrics Society; November 2005; Orlando, FL.
- **Sands LP**, Wang Y, McCabe G, Eng C, Covinsky K. Consequences of frail elders living in the community without needed ADL help. Presented at: The 57th Annual Scientific Meeting of Thse Gerontological Society of America; November 2004; Washington, DC.
- **Sands LP**, Wang Y, Jennings K, McCabe G, Eng C, Covinsky K. Which frail elders are at risk for living in the community without needed ADL help? Presented at: The 2004 meeting of the American Geriatrics Society; November 2004; Las Vegas, NV.
- **Sands LP**, Ferreira P, Stewart A, Brod M, Yaffe K. Does dementia caregivers' burden affect their reports of their relative's depression? Presented at: The 56th Annual Scientific Meeting of The Gerontological Society of America; November 2003; Boston, MA.
- Weiss S, Dowling G, Theophile V, **Sands L**. Effects of adult day care on self-reports of general health and social functioning in disabled older adults. Presented at: The 56th Annual Scientific Meeting of The Gerontological Society of America; November 2003; Boston, MA.
- **Sands LP**. Ethics in research. Invited presentation to the First Annual American Nursing Association Conference on Ethics at Purdue University; September 19, 2003; West Lafayette, IN.
- **Sands LP**. Invited Discussant. Life Course Symposium. Purdue University; September 17-18, 2003; West Lafayette, IN.

- **Sands LP**, Fereira P, Stewart A, Brod M, Yaffe K. Quality of life in persons with dementia: Should caregivers be asked? Presented at: The 2003 Annual Meeting of the American Geriatrics Society; 2003; Baltimore, MD.
- Moody-Ayers S, Mehta K, Lindquist K, **Sands L**, Covinsky K. Cognitive function explains black-white difference in functional decline and mortality. Presented at: The 2003 Annual Meeting of the American Geriatrics Society; 2003; Baltimore, MD.
- Mehta K, Yaffe K, Sands L, Langa D, Covinsky K. Relative contributions of cognitive function and depressive symptoms on mortality in the elderly. Presented at: The 55th Annual Scientific Meeting of The Gerontological Society of America; November 2002; Boston, MA.
- **Sands LP**. Preservation of functioning in persons with dementia. Symposium Presented at: The 55th Annual Scientific Meeting of The Gerontological Society of America; November 2002; Boston, MA.
- **Sands LP**, Chren MM, Sahay A, Rassen A, Landefeld CS. Does a program to enhance referral to social work case management improve health outcomes and reduce costs for frail elders? Presented at: The American Geriatrics Society Annual Meeting; November 2002; Washington, DC.
- **Sands LP**, Yaffe K, Covinsky K. The effects of admission for an acute illness and cognitive impairment on ADL loss in frail older adults. Presented at: The 54th Annual Scientific Meeting of The Gerontological Society of America; November 2001; Chicago, IL.
- **Sands LP**, Yaffe K, Covinsky K, Chren, MM, Counsell, S, Palmer R, Forrinsky R, Landefeld S. Differences in functioning between African American and Caucasian patients after hospitalization for an acute illness. Presented at: The 53rd Annual Scientific Meeting of The Gerontological Society of America; November 2001; Washington, DC.
- Garg A, Chren MM, **Sands LP**, Matsui MS, Marenus KD, Feingold KR, Elias PM. Epidermal permeability barrier homeostasis: implications for the pathogenesis of stress-associated skin disorders. Presented at: Society of Investigative Dermatology Annual Meeting, May 2000; Chicago, IL.
- Chren MM, Sahay AP, **Sands LP**. Variation in performance rates of therapy for nonmelanoma skin cancers. Presented at: Society of Investigative Dermatology Annual Meeting; May 2000; Chicago, IL.
- **Sands LP**, Yaffe K, Covinsky K, Chren, MM, Counsell, S, Palmer R, Forrinsky R, Landefeld S. Cognitive status and daily functioning after hospitalization for an acute illness. Presented at: The 2000 American Geriatrics Society Conference; 2000; Nashville, TN.
- **Sands LP**, Yaffe K, Covinsky K, Chren MM, Counsell S, Landefeld. Cognitive status and functional recovery after hospitalization for an acute illness. Presented at: The 52nd Annual Scientific Meeting of The Gerontological Society of America; November 1999; San Francisco, CA.
- **Sands LP**, Meredith W, Phinney A. Effects of practice on Alzheimer's patient's cognitive performance. Presented at: The 51st Annual Scientific Meeting of The Gerontological Society of America; November 1998; Philadelphia, PA.
- Brod M, Stewart A, **Sands L**. The Conceptualization of quality of life in dementia symposium: defining and assessing quality of life in Alzheimer's disease: Recent advances. Presented at: The 50th Annual Scientific Meeting of The Gerontological Society of America; November 1997; Cincinnati, OH.

- **Sands LP**, Phinney A, Katz I. Anticholinergics and excess deterioration in Alzheimer's patients. Presented at: The 50th Annual Scientific Meeting of The Gerontological Society of America; November 1997; Cincinnati, OH.
- Katz I, **Sands LP**, Difillipo S, Boyce A, D'Angelo K. Self reports of confusion after drug challenge. Presented at: The 49th Annual Scientific Meeting of The Gerontological Society of America; November 1996; Washington, DC.
- **Sands LP**, Phinney A, Katz I. Predictors of annual change in cognitive functioning in Alzheimer's patients. Presented at: The 49th Annual Scientific Meeting of The Gerontological Society of America; November 1996; Washington, DC.
- Brod M, Stewart A, **Sands LP**, Walton P. The Dementia Quality of Life Rating Scale. Presented at: The 49th Annual Scientific Meeting of The Gerontological Society of America; November 1996; Washington, DC.
- **Sands LP**, Phinney A, DiFillippo S, Katz I. Short-term change in Alzheimer's patients cognitive functioning. Presented to: the 47th Annual Scientific Meeting of The Gerontological Society of America; November 1994; Atlanta, GA.
- **Sands LP**, Katz I, Doyle S. Assessing changes in brain state due to drug toxicity with EEG measurements and cognitive tests. Presented to: the 5th Cognitive Aging Conference; April, November 1994, Atlanta, GA.
- Katz I, Harner RN, **Sands LP**, Doyle S. Monitoring for CNS toxicity of drugs in the elderly. Presented at: The 46th Annual Scientific Meeting of The Gerontological Society of America; November 1993; New Orleans, LA.
- Wetterholt KL, McCully KK, Rodriguez SR, Landsberg LA, **Sands LP**. Assessing older adults' ability to perform household activities of daily living. Presented at: The 45th Annual Scientific Meeting of The Gerontological Society of America; November 1992; Washington, DC.
- Posner J, McCully K, Landsberg L, Tycenski P, Hoffman M, **Sands LP**. Physical determinants of independence in older women. Presented at: The 45th Annual Scientific Meeting of The Gerontological Society of America; November 1992; Washington, DC.
- **Sands LP**, Doyle S, Katz I. Detecting subclinical change in cognitive functioning in older adults. Presented at: The 4th Cognitive Aging Conference; 1992; Atlanta, GA.
- **Sands LP**, Doyle S, Katz I. Sensitivity of cognitive tests for detecting subclinical encephalopathy. Presented at: The 44th Annual Scientific Meeting of The Gerontological Society of America; November 1991; San Francisco, CA.
- Posner JD, Windsor-Landsberg LA, **Sands LP**, Gitlin LN. Physiological correlates of self-reported ability to perform four tasks of daily living. Presented at: The 44th Annual Scientific Meeting of The Gerontological Society of America; November 1991; San Francisco, CA.
- Windsor-Landsberg LA, **Sands LP**, Posner J. How long do we feel good after exercise? Presented at: The 44th Annual Scientific Meeting of The Gerontological Society of America; November 1991; San Francisco, CA.

- Libon DJ, Scanlon M, Swenson R, **Sands LP**. Senile Dementia of the Binswanger's Type (SDBT) and neuropsychological functioning. Presented at: The 43rd Annual Scientific Meeting of The Gerontological Society of America; November 1990; Boston, MA.
- **Sands LP**, Libon D, Windsor LA, Posner J. The effects of diabetes on older adults cognitive functioning. Presented at: The 3rd Cognitive Aging Conference; 1990; Atlanta, GA.
- **Sands LP**, Meredith WM. Sex differences in cognitive aging. Presented at: The 42nd Annual Scientific Meeting of The Gerontological Society of America; November 1989; Minneapolis, MN.
- Windsor LA, **Sands LP**, Gorman K, Posner J. Transitory change in affect in young and old exercisers. Presented at: The 42nd Annual Scientific Meeting of The Gerontological Society of America; November 1989; Minneapolis, MN.
- Topp B, Windsor LA, **Sands LP**, Gorman K, Bleiman M, Cherkas L, Posner J. The effect of exercise on morbidity patterns of healthy older adults. Presented at: The 42nd Annual Scientific Meeting of The Gerontological Society of America; November 1989; Minneapolis, MN.
- **Sands LP**, Davis DM. Physical fitness and intellectual functioning. Presented at: The 41st Annual Scientific Meeting of The Gerontological Society of America; November 1988; San Francisco, CA.
- Frazer D, Glicksman A, **Sands LP**, Libon D, Cooley S. Differential effects of depression and dementia on cognitive functioning of elderly clients. Presented at: The 41st Annual Scientific Meeting of The Gerontological Society of America; November 1988; San Francisco, CA.
- **Sands LP**, Meredith WM, Terry H, Millsap R. Midlife intellectual development assessed by Wechsler item responses. Presented at: The American Psychological Association Annual Meeting; 1986; Washington, DC.

INVITED NATIONAL AND REGIONAL PROFESSIONAL PRESENTATIONS

- Teaster P, Woods E, **Sands LP**. Representative Payees: Opportunities to Improve Service Delivery. Social Security Policy Forum, September 24, 2020.
- **Sands LP**. Reducing postoperative delirium using a non-narcotic adjuvant. Presented at: The 2nd Annual Conference of the American Delirium Society; June 5, 2012; Indianapolis, IN.
- **Sands LP**. Adult day health care: Benefits for participants. Presented to: Veterans' Administration Best Practices in The Continuum of Care: Innovative Models of Care for Older Adults; April 21, 2010; Little Rock, AR.
- **Sands LP**, Hancock E. Volume of home care received, hospitalization, and nursing home admission among older community dwelling Indiana Medicaid members: Potential implications for policy-makers. Indiana Geriatrics Society Annual Conference; October 2, 2009; Indianapolis, IN.
- **Sands LP**. Outcomes of Medicaid's home and community based long-term care program: implications for care coordination. Presented at: "Transforming Healthcare Delivery: Care Coordination and Population Health" Regenstrief for Healthcare Engineering Fall Conference; September 29, 2009; West Lafayette, IN.

- Xu H, **Sands LP**. Identifying individuals in need of full-time caregiving. The 2004 Wave of National Long Term Care Survey: New Research Directions at the National Institutes of Health; May, 2009; Bethesda, MD.
- **Sands LP**. Optimizing Pathways of Care for Medicaid Patients with Dementia. Regenstrief Center for Healthcare Engineering Spring Conference; April 22, 2008; West Lafayette, IN.
- **Sands LP**. Evaluating long-term care options for Medicaid patients with dementia. Invited presentation to: The Regenstrief Center for Healthcare Engineering Delivering on Healthcare Conference; March 21, 2006; West Lafayette, IN.
- **Sands LP**. Positive effects of ADHC on physical and emotional functioning in disabled older adults. Invited presentation to: The annual California Association for Adult Day Services; September 22-23, 2005; Palm Springs, CA.
- **Sands LP**. Using electronic medical records/claims data to develop healthcare policy. Presented at: Discovery Park eHealth Infrastructure Workshop; November 14, 2005; West Lafayette, IN.
- **Sands LP**. Health consequences of frail elders living in the community with unmet ADL needs. Invited presentation to: The IUPUI Regenstrief Institute; November 2, 2004; West Lafayette, IN.
- **Sands LP**. Cognitive Impairment: Implications for Everyday Functioning and Quality of Life. Presented at: The Developmental Psychology Colloquium at Purdue University; March 10, 2003; West Lafayette, IN.
- **Sands LP**. Differences in Functioning Between African American and Caucasian Patients After Hospitalization for an Acute Illness. Presented at: The Life Course Inequality Symposium sponsored by the Purdue University Gerontology Program; September 19, 2002; West Lafayette, IN.
- **Sands LP**, Yaffe K, Covinsky K, Chren, MM, Counsell, S, Palmer R, Forrinsky R, Landefeld S. Differences in functioning between African American and Caucasian patients after hospitalization for an acute illness. Presented at: The Life Course Inequality Symposium sponsored by the Purdue University Gerontology Program; September 19, 2002; West Lafayette, IN.
- **Sands LP**. Perioperative Neurocognitive Dysfunction: What is the difference between delirium and post-operative cognitive dysfunction. Presented at: Anesthesia Grand Rounds at University of California, San Francisco; July 2002; San Francisco, CA.
- **Sands LP**, Yaffe K, Covinsky K, Chren, MM, Counsell, S, Palmer R, Fortinsky R, Landefeld S. Cognitive status and recovery after hospitalization for an acute illness. Presented at: the Clinical Research Symposium, University of California, San Francisco; October 2000; San Francisco, CA.
- **Sands LP**, Yaffe K, Covinsky K, Chren, MM, Dane K, Lui L, Landefeld S. Cognitive status and functional recovery after hospitalization for an acute illness. Presented at: the 1999 Northern California Epidemiology Network Conference at University of California, San Francisco; November 1999; San Francisco, CA.
- **Sands LP**. Early detection. Presented at: the UCSF National Center of Excellence in Women's Health "Alzheimer's Disease and Women: From Bench to Bedside and Beyond" Conference; March 31, 1998; San Francisco, CA.

Sands LP. Evaluating individual Alzheimer's patients: Implications for Treatment. Presented at: the Geriatric Noon Conference at Kaiser Hospital; 1997; Los Angeles, CA.

Sands LP, Phinney A. Alzheimer's disease: progression of cognitive decline and implications for treatment. Presented at: The February Psychiatry Grand Rounds Lecture at Mt. Zion Hospital; 1995; San Francisco, CA.

Sands LP, Phinney A. Short-term changes in cognitive functioning in Alzheimer's patients. Presented at: The January Grand Rounds Lecture to the medical staff of Laguna Honda Hospital; 1995; San Francisco, CA.

Sands LP, Phinney A. Variation in cognitive performance in Alzheimer's disease and implications for treatment. Presented to: The May Principal Investigators meeting of the Department of Veterans Affairs Medical Center, Palo Alto and Stanford University; May 1995, Stanford, CA.

MENTORSHIP

Graduate Advising:

Interdisciplinary PhD Program:

Jo Culligan, Interdisciplinary PhD, Co-chair, expected graduation 2026

Human Development and Family Sciences, Adult Development and Aging

Maham Khan, Chair PhD committee, expected graduation 2027
Sam Winter, PhD committee member, expected graduation 2027
Benjamin Comire, PhD committee member, expected graduation 2026
Katelyn Singer, PhD committee member, expected graduation 2025
Elayna Seago, PhD committee member, expected graduation 2026
Mirriam Mansoor, PhD committee member, expected graduation 2026
Kathryn Georgette Ratliff, MA committee member, graduated 2022
Aaron Ogletree, Co-Chair, PhD, graduated 2018
Sujee Kim, PhD committee member, graduated 2017

Virginia Tech PhD Department of Statistics Committee Member:

Miao Yuan, Statistics, PhD, August 2016 Zhongnan Jin, Statistics, PhD, August 2019 Zhiyuan Du, Statistics, PhD, expected 2025

Virginia Tech PhD Research Supervisor funded by Sands:

Yimeng Xie, Statistics, PhD, graduated May 2016 Miao Yuan, Statistics, PhD, graduated August 2016 Jiafeng Zhu, Statistics, MS, graduated May 2018 Man Zhang, Statistics, PhD, graduated May 2018 Zhongnan Jin, Statistics, PhD, graduated August 2019 Yeuyao Wang, Statistics, PhD, graduated 2022 Yunnan Xu, Statistics, PhD, graduated May 2021 Jie Min, Statistics, PhD, May 2024 Lina Lee, Statistics, MS, May 2025 Quyen Do, Statistics, PhD, August, 2022 Xiaofan Zhu, Statistics, PhD, expected August 2026 Zhiyuan Du, Statistics, PhD, expected August 2025 Felipe Restrepo, MS, December 2022

Virginia Tech Carilion Medical School Research Supervisor:

Nathan Ziman, VTSOM, MD, May 2019 Cody Roberts, VTSOM, MD, May 2020 Leon Yang, VTSOM, MD, expected May 2023 Hong Ye, VTSOM, MD, expected May 2026 Thisha Thiagarajan, VTSOM MD, expected May 2026

Purdue University MS Thesis Committee Member:

Philip DeTurk, Nursing, May 2005, "Perceived and Actual Barriers to Men in Nursing Meghan Gardiner, Nursing, May 2008," Understanding Factors Associated with Recovery from Postoperative Delirium"

Kristen Deno, Nursing, May 2008, "Glucose Control in the Medical Patient: Bolus Insulin Dosing Compared to Basal-Bolus Insulin Dosing"

Melanie Rosswurm, Nursing, May 2008, "The Sustaining Effect of a Nurse Practitioner-Based Diabetes Care Management Program"

Megan Rowe, Nursing, May 2008, "Understanding Young Women's Knowledge, Perception and Risk Reduction Behavior Related to Coronary Heart Disease"

Lynn Nuti, Nursing, May 2008, "Assessing Nursing Faculty's Attitudes and Perceptions of Simulation as a Teaching Strategy"

Emily Hilycord, Nursing, May 2008, "Prognostic Study of Total Joint Replacement within Two Years"

Megan Behrmann, Nursing, August 2009, "The Relationship between Perceptions of Support from Nursing Care Providers and Diabetic Management in Adolescents"

Purdue University Doctor of Nursing Practice (DNP), Committee Member:

Melanie Braswell, DNP, May 2007, "Reducing Surgical Site Infections"

Michael Criswell, DNP, August 2008, "Critical Care Nurse's Attitudes and Perceptions Regarding Unrestricted Family Visitation in an Intensive Care Unit"

Polly Royal, DNP, August 2008, "Nurses Working Overtime and Risk for Cardiovascular Disease" Susan McAlister, DNP, December 2008, "Vibrational Frequencies in Wound Healing"

Deborah Koester, DNP, May 2009, "Identification of Factors that Impact Delivery of Essential Public Health Services in Indiana Local Public Health Systems"

Laura Beamer, DNP, May 2009, "Preventive and Screening Health Behaviors in the Presence of a Family History of Cancer"

Jennifer Coddington, DNP, May 2009, "Quality of Care and Policy Barriers to Providing Health Care at a Pediatric Nurse Managed Clinic"

Mary Ann Caswell, DNP, May 2009, Evaluation of the Impact of High-fidelity Simulation on Competence and Confidence in Knowledge Transference by Nursing Students"

Deanna Staples, DNP, December 2009, "Emergency Preparedness: An After Action Analysis of the 2009 Kentucky Ice Storm"

Mary Browning, DNP, May 2010, "Ambulatory Patient Safety Culture: A Staff Perspective"

Yvonne Culpepper, DNP, May 2010, "Differences in Staff's Perception of Safety Cultures over Time"

Cheryl Erler, DNP, August 2010, "Organizational Variables and Perceived Patient Safety of Health Care Providers in a Critical Care Transport Program"

Becky Horn, DNP, December 2010, "Drug Recovery Retention in Women Who Have Participated in Prenatal Substance Treatment"

Inna Savikhin, DNP, December 2010, "The Association between Parental Psychological Stress and Negative Health Outcomes in their Adolescents age 13-18 years old"

Christine Balt, DNP, August 2011, "The Development, Implementation, and Evaluation of an Evidence- Practice Guideline for Anal Cancer Screening in Persons with HIV Infection"

Purdue University Doctor of Nursing Practice (DNP) Committee Chair:

Terry Ridge, DNP, August 2009, "A Randomized Comparative Trial between Standard Office Visits and Group Office Visits in Adults with Type 2 Diabetes"

Diane DeBerry, DNP, May 2010, "Risk for Postoperative Complications in Older Patients undergoing Elective Hip and Knee Arthroplasty"

Rachel Waltz – DNP, December 2010, "The Impact of Using a Waterless Milk Warming System on Gastric Residual, GI Symptoms, O2 Consumption, Weight Gain and Length of Stay in the Neonatal Intensive Care Unit"

Margie McCaskey, DNP, August 2011, "Transferring Central Line Care Evidence Into Practice on Pediatric Acute Care Units"

Lynn Nuti, DNP, August 2011, "Diabetic Outpatients and No-shows to Primary Care Provider Appointments"

Earlie Hale, DNP, December 2011, "Stool Consistency in Older Adults Living in Nursing Homes" Judy Young, DNP, December 2011, "Nursing Workload Measurement Approaches Utilized for Nurse Staffing Decision-making"

Sue Colisimo, DNP, December 2012, "Elderly Veterans' Recall of Their Medications"

Interdisciplinary Graduate Advising:

Purdue University MS Committee Member:

Tetyana Shippee, Sociology, May 2006 Sankaranarayanan Guruprasad, Industrial Engineering, May 2006 Hailey Lawyer, Foods and Nutrition, May 2008 Jennifer Faith, Foods and Nutrition, May 2009 Vanessa Kobza, Foods and Nutrition, May 2011

Purdue University PhD Committee Member:

Pei Chun Chen, Sociology, PhD, December 2004

Yun Wang, Statistics, PhD, August 2005

Minerva Cruz, Political Science, PhD, August 2008

Eileen Weinheimer, Foods and Nutrition, PhD, May 2011

Ji Lin, Biomedical Engineering, PhD, December 2011

Minghua Tang, Foods and Nutrition, PhD, May 2012

Melissa S. Yale, Education, PhD, August 2012

Karis Pressler, Sociology, PhD, August 2014

Angelitta Britt-Spells, Public Health, PhD, August 2016

Purdue University PhD Research Supervisor (Funded Student through Grants):

Yun Wang, Statistics, PhD, 2005 Huiping Xu, Statistics, PhD, 2007 Sudeshna Paul, Statistics, PhD, 2009 Joanne Daggy, Statistics, PhD, 2009 Eunjung Lim, Statistics, PhD, 2011 Danni Yu, Statistics, PhD, 2013 Glen DePalma, Statistics, PhD, 2014 Shuang He, Statistics, PhD, 2014 Zach Hass, Statistics, PhD, 2016

Fellowship Advising, Division of Geriatrics, Department of Medicine, University of California, San Francisco, 1998 – 2002:

Elizabeth Burton, MD
Michael Ming, MD
Edgar Pierluissi, MD
Michael Steinman, MD
Irwin Tan, MD
Elizabeth Lindquist, MD
Alex Li, MD
Kenneth Chaung, MD
Kaycee Sink, MD
Jayna Holroyd-Leduc, MD

SERVICE: VIRGINIA TECH

Promotion and Tenure Committee, Department of Human Development and Family Sciences, 2023 – present.

Research Liaison, Department of Human Development and Family Sciences, 2023 – present.

Member of the Virginia Tech Carilion School of Medicine Department of Basic Education Appointment, Promotion, Reappointment and Tenure Committee, 2018-present.

Committee Member, College of Liberal Arts and Human Sciences Administrative Review of the Center for Gerontology, 2023.

Chair, Search Committee for the Head of the Department of Human Development and Family Science 2022-2023.

Honorary Chair, Commonwealth of Virginia Campaign, 2020.

Head of Search Committee for Adult Development and Aging Faculty, 2019-2020.

Member of Search Committee for Adult Development and Aging Faculty, 2016-2017.