

Gerontology gazette

DOCTORAL PROGRAM IN GERONTOLOGY
University of Maryland, Baltimore and University of Maryland, Baltimore County

The Doctoral Program in Gerontology (DPG) is in its 22nd year of "Preparing the Next Generation of Gerontology Scholars." We are very proud of our 48 graduates working across the country and internationally in government, academic, industry and non-profit settings on behalf of older adults and their families. We recognize our more than 50 affiliate faculty who make our joint, bi-campus program a model of innovative inter-campus collaboration in the field of gerontology.

Research Highlights

PI: Dr. Sarah Holmes

Co-Is: Drs. Barbara Resnick & Beth Galik

Title: *Meaningful Activity for Residents with Dementia in Assisted Living*

Funding source: Alzheimer's Association Research Grant (AARG)

Dates: 1/1/22 – 12/31/24

Many persons with dementia experience behavioral symptoms of distress (e.g. resistance to care, agitation) which can be triggered or exacerbated by the physical and social environment. The presence of behavioral symptoms of distress can challenge staff and may lead to the inappropriate use of psychotropic medications. One promising non-pharmacologic strategy for managing these behavioral symptoms is through meaningful activities which involve participation in activities that are tailored to residents' interests and preferences. Guided by the social ecological model and social cognitive theory, we developed Meaningful Activities for Managing Behavioral Symptoms of Distress (MAC-4-BSD). MAC-4-BSD utilizes a well-established four step approach to help staff engage residents in meaningful activities and includes participation from a stakeholder team and on-site champion. The objective of this study is to test the feasibility and preliminary efficacy of MAC-4-BSD to reduce behavioral symptoms of distress by modifying the environment and empowering staff to facilitate and engage residents in meaningful activities. The MAC-4-BSD intervention will be tested using a cluster randomized trial with a repeated measures design. A total of 100 residents with mild to moderate dementia will be recruited from 4 assisted living communities. Outcomes will be evaluated at baseline, 4, and 12 months. Data analyses will include descriptive analysis and linear mixed modeling. Findings from this study will lay the groundwork for a larger randomized controlled trial to test the effectiveness of MAC-4-BSD for reducing behavioral symptoms and improving quality of life for the growing number of residents with dementia living in assisted living communities.



PI: Dr. Michael Lepore (PI, 20%)

Co-Is: Drs. Holmes S, UMB SON; Kusmaul N, UMBC; Corazzini K, UNH.

Title: *Advancing Person-Centered Dementia Care in Low Resource Contexts*

Funding Source: Alzheimer's Association

Dates: 7/1/22 – 5/31/2024

This community-based participatory research study is seeking to improve dementia care in low resource long-term care contexts. In this study, people living with dementia in long-term care settings, their close relations, and employees of the long-term care settings, including frontline care staff and administrative staff, will participate in three cycles of research about how to collect and share data to support long-term care providers to provide person-centered care and to support people living with dementia in long-term care settings to have a good quality of life. Four long-term care settings will participate, including two nursing homes and two assisted living communities, two of which will be located in the mid-Atlantic and two in the Northeastern United States. Participants from the four sites will first engage in semi-structured interviews, then a subset of interview participants will participate in workshops for co-designing data collection and data sharing protocols, and finally a subset of participants will engage in a final round of interviews to review and assess the protocols that are developed over the course of the project. Findings will be synthesized in an implementation framework to be used within the study sites, as well as in other long-term care sites, to support person-centered dementia care and quality outcomes among people living with dementia in long-term care settings.



Research Highlights continued:

PI: Dr. Jennifer Albrecht

Co-Is: Drs. Addison, Badjatia, Grattan, Gruber-Baldini, Kozar, Liang, Magaziner, Orwig, Wickwire

Title: *Recovery among Older Adults Following Head Injury*

Funding source: National Institute on Aging

Dates 7/1/22-6/30/27



Traumatic brain injury (TBI) is a common, fall-related injury that results in over 123,000 hospitalizations, 485,000 emergency department visits, and 21,000 deaths annually among adults aged 65 years and older. TBI increases risk of Alzheimer's disease and other health outcomes (e.g., psychological distress, sleep quality). Yet, despite its very large public health impact, little is known about recovery from TBI among older adults. The objective of the proposed research is to gain an in-depth understanding of recovery following TBI among older adults and the factors that influence it. To achieve our objective, we propose to conduct a prospective cohort study of 250 patients aged 65 years and older and treated for mild TBI at the R Adams Cowley Shock Trauma Center with follow-up at 2 weeks and 3, 6, and 12 months to complete three Specific Aims: 1) Assess recovery of physical functioning and identify predictors of poor recovery; 2) Assess recovery of cognitive and psychological functioning and sleep quality and identify predictors of poor recovery; 3) Identify interactions between recovery trajectories. The significance of the proposed research is that it will identify unique recovery patterns and factors that impact the course of recovery in key functional domains following mild TBI, the most common type of TBI among older adults. This work will generate new knowledge that will guide targeted treatment efforts and inform future development of strategies to optimize recovery following this common fall-related injury among older adults.

MPIs: Drs. Denise Orwig and Patricia Dykes

Co-Is: Drs. Jay Magaziner, Jason Falvey, and Elizabeth Parker

Title: *Effectiveness of a Multimodal Intervention for Transitions of Care after Lower Limb Fracture*

Funding source: Patient-Centered Outcomes Research Institute (PCORI)

Dates: 11/2022-10/2027



Older adults with lower limb fractures receive acute care and surgery in hospital and are discharged within 3–5 days to a skilled nursing facility (SNF) for rehabilitation where care is highly heterogeneous. The length of stay in SNF can be 3–12 weeks and offers the ideal setting for initiating evidence-based interventions across the clinical care team and allowing for targeted education for the patient and family. We propose to introduce OsteoPorotic fracTure preventiON System (OPTIONS), an integrated multi-modal intervention, with clinical decision support (CDS), for providers, patients, and care partners, to improve uptake of tailored exercise, healthy nutrition, and bone-enhancing medications. We focus on those who were community-dwelling at the time of fracture entering SNFs for rehabilitation and their transitions back to the community. CDS is needed to quickly and easily guide clinicians to the most effective strategies for an individual patient and engage patients and their caregivers in decision-making to ensure that the evidence-based interventions are routinely implemented and sustained in clinical practice within the SNF and across transitions in the community. We will partner with a large integrated healthcare network with SNFs across the United States to conduct a matched pair cluster randomized controlled trial (SNF as unit of randomization). The purpose of this project is to determine the effectiveness of OPTIONS to improve function and quality of life by increasing uptake and adherence of the 3 evidence-based clinical interventions. The patient-reported outcomes will be collected from 1320 patients across 24 SNFs.

MPIs: Drs. Nancy Kusmaul and Brandy Wallace

Title: *Trauma-Informed Care in Nursing Homes*

Funding Source: The Oregon Community Foundation

Dates: 2/1/21-2/1/23

The long-term goal is to establish effective trauma-informed care (TIC) implementation strategies for nursing homes. Currently there is no single accepted strategy for implementing TIC in nursing homes and that researchers, administrators, and regulators have little understanding of TIC and its impacts within nursing homes. This project will create a replicable tailored TIC approach for nursing homes (NHs). We have designed a TIC educational and coaching curriculum and are working with two nursing homes in each year to implement TIC, identifying and addressing barriers to this organizational change.



Research Highlights continued:

MPIs: Drs. Ann Gruber-Baldini and Jay Magaziner
Co-Is: Drs. Orwig, Latham, Schmalzle, Reisner, Parker
Title: *Behavioral Activation Intervention for Persons Aging with HIV*
Funding source: UM-OAIC Supplement, NIA
Dates: 09/05/22—06/30/23



This administrative supplement will test the feasibility and acceptability of a brief (12 week) individualized, Behavioral Activation program focused on decreasing loneliness and increasing social engagement, that will be augmented with a program to increase home exercise and address poor nutrition among persons aging with HIV. It will be delivered by remote coaches. Recruitment will include those ages 50+ with HIV from the UM THRIVE program and other HIV centers in Baltimore as necessary. This work will be accomplished in three stages: Stage 1: We will start with community engagement strategies, such as focus groups with persons aging with a HIV diagnosis and clinical providers, to tailor the intervention. A community engagement team will provide feedback on preferences for delivery mode (telephone, tablet, home, and/or at a community center), recruitment strategies and brochures, measures, other study materials, inclusion of the physical activity and nutrition modules. Stage 2: We will work with HIV clinical and research experts in exercise, nutrition, and psychological functioning to tailor the content of the material and resources for the remote coaches in order to meet the needs of PAWH. Stage 3: Following the community engagement and tailoring the intervention for PAWH, we will pilot test feasibility acceptability with 10 persons ages 50+ living with a HIV diagnosis. This study will test the feasibility of a much-needed intervention to improve functioning and health outcomes among a vulnerable group of older adults. It is a single-group unblinded feasibility study to explore a new intervention to support older people aging with HIV. If this intervention appears to be feasible, acceptable, and to show preliminary evidence of efficacy, we will look to evaluate it in a phase III efficacy trial.

PI: Dr. Jason Falvey
Mentors: Drs. Magaziner, Guralnik, Shardell, and Mullins
Title: *The ENRICH Study: Engaging Community and Municipal Stakeholders to Improve High Quality Aging in Place after Hip Fracture*
Funding source: NIA
Dates: 9/30/21-8/31/26



The goal of ENgaging community and municipal seRvices to promote high-quality aging in place after Hip fracture (ENRICH) is to help older adults more meaningfully participate in community activities to improve the quality of aging in place. To tailor ENRICH for Baltimore, this project will 1) gather information on which factors (e.g. housing) most strongly impact the number of healthy days spent at home after hip fracture, using Medicare claims data linked with US Census Bureau data; 2) use this data to guide interviews with patient and clinician stakeholders to elucidate meaningful adaptations of ENRICH; and 3) pilot test the effect of ENRICH on life space mobility with 24 older hip fracture patients living in economically deprived neighborhoods.

Podcast Episode! Check out and share the fantastic podcast episode spotlighting our UMB/UMBC Doctoral Program in Gerontology on Retrieving the Social Sciences <https://www.podbean.com/pu/pbblog-4zwd3-a6a614>. It features segments with our DPG co-director: Dr. John Schumacher; current graduate students: Min-Kyoung Park; Rachel McPherson; Jenn Kirk; and, alumni: Dr. Roberto Millar and Dr. Sarah Holmes. Listen to the amazing work being done.

Faculty News

A selection of grant funding, awards, and publications are reported for our faculty affiliates.

Awards and Kudos:

Dr. Jason Falvey was recognized as a 2022 Health in Aging Foundation New Investigator Awardee by the American Geriatrics Society.

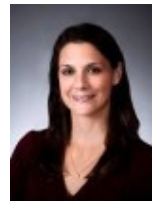
Dr. Falvey also earned the Jack Walker Award for best publication in *Physical Therapy*, American Physical Therapy Association



Dr. Sarah Holmes received the Gerontological Society of America Douglas Holmes Emerging Scholar Award for the paper titled, "Care Transitions Among Medicare Nursing Home Residents with and without Antipsychotic Medication Use" in November 2021.

Dr. Holmes also received the Breaking Science Award at the 2022 Annual Meeting for AMDA: Society for Post-Acute and Long-Term Care Medicine; Zarowitz BJ (presenter), Jain P, Holmes S, Qato DM, Carabaja-Johnson A, Fleming SP, Lucas JA, Desai A, Brandt N, & Wastila L. Impact of nursing home factors on antipsychotic use in residents before and after the implementation of the antipsychotic reduction initiative.

Dr. Nicole "Jennifer" Klinedinst was appointed co-director of the Biology and Behavior Across the Lifespan (BBAL) Organized Research Center in the University of Maryland School of Nursing.



Dr. Nancy Kusmaul became president of the Association for Gerontology Education in Social Work (AGESW).

Drs. Nancy Kusmaul and Brandy Wallace received a Supplement for Undergraduate Research Experiences (SURE) Award from UMB to support our Trauma-informed care in nursing homes project currently funded by the Oregon Community Foundation.



Dr. Amanda Lehning has been invited to continue serving on the AARP Long-term Services & Support State Scorecard National Advisory Panel for the 5th LTSS Scorecard to be released in the Fall of 2023.

Dr. Michael Lepore was named co-director of the Center for Health Equity and Outcomes Research (CHEOR) in the University of Maryland School of Nursing.

Dr. Lepore will also be joining the ICTR team as associate director within the ICTR Community and Collaboration Core.



Dr. Eun-Shim Nahm was named Associate Dean for the Doctor of Philosophy (PhD) program in the University of Maryland School of Nursing.

Drs. Karon Phillips and Sarah Chard have been named The Gerontological Society of America fellows. This is the highest level of recognition in the GSA professional organization.



Dr. Barbara Resnick was recognized as Distinguished University Professor from UMB. The title of Distinguished University Professor is the highest appointment bestowed on a faculty member at UMB. It is a recognition not just of excellence, but also of impact and significant contribution to the nominee's field, knowledge, profession, and/or practice.

Dr. Resnick also received the 2021 Ada Sue Hinshaw Award from the Friends of the National Institute of Nursing Research. Recipients have a substantive and sustained program of science that afford them recognition as a prominent senior scientist with a trajectory of research that has transcended health and/or related disciplines and where outcomes have led to improved health and well-being of one or more populations.

Faculty News continued...

Promotions:

Drs. John Schumacher and Taka Yamashita were promoted to Professor.

Dr. Michael Lepore was awarded tenured professor.

Dr. Nancy Kusmaul was promoted to Associate Professor.



Books:

Kusmaul, N. (2022). *Aging and Social Policy in the U.S.* Cognella.

Schumacher, J and Melady, D. (2022) *Creating a Geriatric Emergency Department: A Practical Guide.* Cambridge University Press, Cambridge, UK.

Book Chapters:

Kusmaul, N. (2022). The influence of policy on end-of-life and palliative care. In T. Alito, S. Otis-Green, & J. Cagle (Eds.). *Oxford Textbook of Palliative Social Work.* (2nd edition). Oxford.

Faculty Publications (selected)

Bailey, M.D., Gambert, S., **Gruber-Baldini, A., Guralnik, J.,** Kozar, R., **Qato, D.M.,** Shardell, M., **Albrecht, J.S.** (in press). Traumatic Brain Injury and Risk of Long-Term Nursing Home Entry among Older Adults: An Analysis of Medicare Administrative Claims Data. *Journal of Neurotrauma*. PMID: 35793112 . Accepted 6/27/22. doi: 10.1089/neu.2022.0003

Millstein LS, Rosenblatt P, Bellin MH, Whitney L, Eveland SR, Lee MC, Allen J, *Mutchie HL*, Becker TD, **Cagle J.** Advance Care Planning and Communication Skills Improve after an Interprofessional Team Simulation with Standardized Patients. *Palliat Med Rep.* 2022 Aug 8;3(1):123-131. doi: 10.1089/pmr.2021.0086. PMID: 36059907; PMCID: PMC9438443.

Jocelyn Brown, Joan Davitt, Pam Luby, Dorinda Adams, Using Voice and Touchscreen Technology to Protect Vulnerable Clients in Residential Care Facilities, *Innovation in Aging*, Volume 5, Issue Supplement_1, 2021, Page 323, <https://doi.org/10.1093/geroni/igab046.1258>

Falvey, JR, Murphy, TE, Leo-Summers, L, Gill, TM, and Ferrante, LE. Neighborhood Socioeconomic Disadvantage and Disability after Critical Illness. (in press, *Critical Care Medicine*, 2021).

Falvey JR, Cohen AB, O'Leary JR, Leo-Summers L, Murphy TE, Ferrante LE. Association of Social Isolation With Disability Burden and 1-Year Mortality Among Older Adults With Critical Illness. *JAMA Intern Med.* 2021;181(11):1433–1439. doi:10.1001/jamainternmed.2021.5022

Falvey JR, Hajduk AM, Keys CR, Chaudhry SI. Association of Financial Strain With Mortality Among Older US Adults Recovering From an Acute Myocardial Infarction. *JAMA Intern Med.* Published online February 21, 2022. doi:10.1001/jamainternmed.2021.8569

Falvey, JR, Hade, EM, Friedman, S, et al. Severe neighborhood deprivation and nursing home staffing in the United States. *J Am Geriatr Soc.* 2022; 1– 9. doi:10.1111/jgs.17990

Gimie, AM, Melgar Castillo, AI, Mullins, CD, & **Falvey, JR.** Epidemiology of Public Transportation Use Among Older Adults in the United States. *J Am Geriatr Soc.* (in press, August 2022).

Falvey, JR, Ye, JZ, **Parker, EA,** Beamer, BA, & **Addison, O.** Rehabilitation Outcomes Among Frail Older Adults in the United States. *Int. J. Environ. Res. Public Health* (in press, Sept 2022).

Yoon, J.M., Trinkoff, A.M., **Galik, E.,** Storr, C.L., Lerner, N.B., Brandt, N., & Zhu, S. (2022). Deficiency citations on inappropriate psychotropic use related to care for behavioral symptoms of dementia. *Journal of the American Medical Directors Association*, 12, S1525-8610(22)003022-4.

Faculty Publications continued...

Son, H., **Nahm, E.**, Zhu, S., **Galik, E.**, Van de Castle, B., Seidl, K., Russomanno, V. (2022). Older adults' perception and use of patient portals: A comparative analysis of two samples. *Computers, Informatics, Nursing*, 40(1), 61-68.

Quinn, C., **Knopp, K.L.**, Marsiglia, C.A., Bearch, R.C., LeFever, A., Barr, E.A., Liang, Y., **Gruber-Baldini, A.L.** (2021). Mobile Technology Care Coordination of Long Term Services and Support: Randomized clinical trial" *Journal of Applied Gerontology*, 40(5), 529-535. PMID: 32705913.

Gruber-Baldini, A.L., Quinn, C., Roggio, A., **Magaziner, J.S.** (2022). Telemedicine for Older Adult Nursing Home Residents to Avoid Emergency Department Visits: The Experience of the NHTeleED Project in Maryland. *JAMDA*, 23(8):1311-1312. PMID: 35231439

Eastlack, M., Miller, R.R., Hicks, G.E., **Gruber-Baldini, A.**, **Orwig, D.L.**, **Magaziner, J.**, Ryan, A.S. (in press). Thigh muscle composition and its relationship to functional recovery post-hip fracture over time and between sexes. *Journal of Gerontology: Medical Sciences*. Accepted 5/11/22. PMID: 35580856. doi: 10.1093/gerona/glac112

Holmes, S.D., **Resnick, B.**, **Galik, E.**, **Gruber-Baldini, A.**, **Kusmaul, N.** (2021). Reliability and Validity of the Resident Satisfaction Index. *Journal of Applied Gerontology*, 40(6), 638-647. PMID: 32705915.

Kusmaul, N., Zimmerman, S., & Galambos, C. (Accepted). The Key to Wanting to Live in a Nursing Home. [Peer reviewed letter]. *Journal of the American Medical Directors' Association (JAMDA)*.

Kusmaul, N., **Wallace, B.**, Cheon, J., & Sundborg, S. (Accepted). Implementation of trauma-informed care in nursing homes. [Peer reviewed letter]. *Journal of the American Medical Directors' Association (JAMDA)*.

Kusmaul, N., Miller, V.J., & Cheon, J.H. (2022). Family Member Roles in Long Term Care: Lessons for the future from COVID-19. *Journal of Aging Studies*, 62, 101060. <https://doi.org/10.1016/j.jaging.2022.101060>

Kusmaul, N., Cheon, J. H. & Gibson, A. (2021). A policy mapping analysis of the U.S. Congressional approach to medical aid-in-dying. *OMEGA: Journal of Death and Dying*. Advance Online Publication. <https://doi.org/10.1177/00302228211043694>

Miller, V., Fields, N., Anderson, K., & **Kusmaul, N.** (2022). "Please don't let academia forget about us:" An Exploration of Nursing Home Social Work Experiences during COVID- 19. *Journal of Gerontological Social Work*, 65(4), 450-464. <https://doi.org/10.1080/01634372.2021.1978027>

Kusmaul, N., Miller, V.J., & Cheon, J.H. (2022). "They just took him out of my life": Nursing home care partner experiences in COVID-19. *Journal of Gerontological Nursing*, 48(2), 7-11. <https://doi.org/10.3928/00989134-20220111-02>

Howard, J., Voltmer, H., Ferrell, A., Croteau-Johnson, N., & **Lepore, M.** (in press). Self-neglect: A Review of Opportunities and Barriers to Federal Policy and Research Priorities. *The Journal of Adult Protection*. <https://doi.org/10.1108/JAP-01-2022-0003>

Scales, K., & **Lepore, M.** (2022). Structured care protocols for people living with dementia in nursing homes: Reflections for research. *Journal of the American Medical Directors Association* 23(7), 1127-1128.

Lepore, M., & Barch, D. H. (2022). Medicare usage changes in nursing homes and their impacts on long-stay resident outcomes. *Journal of Applied Gerontology*, 41(3), 826-830.

Arpino, B., **Mair, C.A.**, Quashie, N.T. et al. Loneliness before and during the COVID-19 pandemic—are unpartnered and childless older adults at higher risk?. *Eur J Ageing* (2022). <https://doi.org/10.1007/s10433-022-00718-x>

Orwig, D.L., Abraham, D.S., **Hochberg M.C.**, **Gruber-Baldini, A.**, **Guralnik, J.M.** Cappola, A.R., Golden, J., Hicks, G.E., Miller, R.M., **Resnick, B.**, Shardell, M., Sterling, R.S., **Bajracharya, R.**, **Magaziner, J.** (2022). Sex Differences in Recovery Across Multiple Domains among Older Adults with Hip Fracture. *Journal of Gerontology: Medical Sciences*, 77(7):1463-1471. PMID: 34555162.

Bajracharya R., **Guralnik, JM**, **Magaziner JS**, **Shardell MD**, **Rathbun AM**, **Yamashita T**, **Orwig DL** Long-term Sex Differences in All-cause and Infection-Specific Mortality Post Hip Fracture. *J Am Geriatr Soc*. 2022 Apr 12. doi: 10.1111/jgs.17800. Epub ahead of print. PMID: 35415882.

Faculty Publications continued...

Kirk, J., Magaziner, J., Shardell, M., Ryan, A., Gruber-Baldini, A., Orwig, D., Hochberg, M., Rathbun, A. (2021). Depressive Symptom Heterogeneity Among Older Adults After Hip Fracture. *Age and Ageing*, 50(6), 1943–1951, PMID: 34405224

Resnick, B., Galik, E., Holmes, S., & McPherson, R. (2021). The impact of COVID-19 in an assisted living community. *Geriatric Nursing*, 42(5), 1151–1155. <https://doi.org/10.1016/j.gerinurse.2021.08.005>

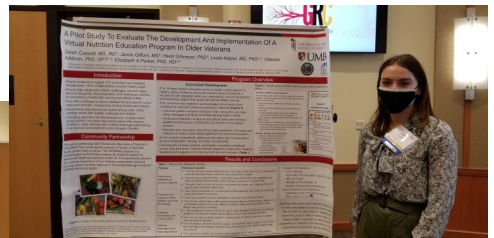
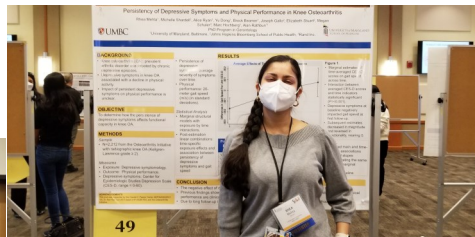
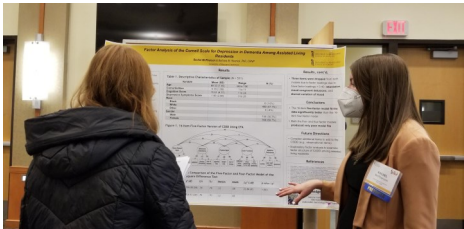
Resnick B. From burnout to caring. *Geriatr Nurs*. 2022 Mar-Apr;44:A1-A2. doi: 10.1016/j.gerinurse.2022.02.009. Epub 2022 Feb 23. PMID: 35219535; PMCID: PMC8864514.

Wells C, Pittas J, Roman C, Lighty K, Resnick B. Reliability and Validity of the UMove Mobility Screen. *J Nurs Meas*. 2021 Sep 13;JNM-D-21-00001. doi: 10.1891/JNM-D-21-00001. Epub ahead of print. PMID: 34518415.

Sarah A. Schmalzle, Nicole A. Viviano, Kareshma Mohanty, Robyn M. Palmeiro, Jennifer D. Hoffmann, Neha Sheth-Pandit, Ann Gruber-Baldini & Kristen A. Stafford (2021) People aging with HIV – protecting a population vulnerable to effects of COVID-19 and its control measures, *AIDS Care*, DOI: [10.1080/09540121.2021.2020208](https://doi.org/10.1080/09540121.2021.2020208)

Hicks, N., Millar, R. J., Girling, L. M., Cummins, P. A., & Yamashita, T. (2021). Conducting Virtual Qualitative Interviews with International Key Informants: Insights from a Research Project. *The Qualitative Report*, 26(9), 2857–2871. <https://doi.org/10.46743/2160-3715/2021.4909>

Graduate Student Research Day



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Welcome Class of 2022



Hema Ramamurthi (left): Epidemiology Track

Hema's interest in aging and aging-related research stems from her experience interacting with participants of several epidemiological and interventional studies spanning a wide range of topics from elder abuse, chronic disease management and progression of infectious diseases such as HIV. Following her training as a physician in India, Hema came to the United States and has pursued a career in academic-community based research at the University of California, Los Angeles, Charles R. Drew University, and currently at the Bloomberg School of Public Health, Johns Hopkins University. Hema is interested in the impact of digitization and ageing.

Jaminette Nazario (center): SCB Track

Jaminette's interest in the older adult population began as a teenager when she saw that a large part of this population needed public transportation to get to their medical appointments or destinations. In her Master of Public Health in Gerontology practice, she had the opportunity to investigate the digital literacy and service providers in activity centers and multiple services in Puerto Rico where she was able to observe the existing needs of service providers and how it affects the services offered to older adults. Jaminette's research interest is focused on older adults living in the community and who have limited resources to achieve a healthy and active old age.

Yoon Chung Kim (right): Epidemiology Track

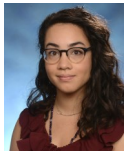
Yoon's interest in the aging population led her to investigate the mental health of Korea's aging population at Seoul National University, South Korea. She continued to pursue her studies in the Aging & Health program at Georgetown University with a concentration in Healthcare Economics and Policy and Johns Hopkins Bloomberg School of Public Health in the Department of Mental Health. Her current research interests include social isolation, social engagement, sleep, cognition, and mental health of older adults. She also has years of experience in international finance and counseling psychology.

Student Awards



Jocelyn Brown was awarded the Gerontology Early Career Development Award.

Rachel McPherson received this year's Derek Gill Memorial Fund Award. This award is given each semester to a student in the Master's program in Applied Sociology based on academic performance (as measured by GPA) and contribution to the department or community. <https://saph.umbc.edu/awards/>



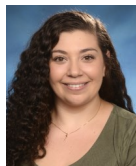
Jenn Kirk received a summer fellowship award for her dissertation research from Mathematica. <https://www.mathematica.org/.../summer-fellows-projects>

Rhea Mehta won the Medical and Graduate Student Achievement Award for the abstract she submitted to the American College of Rheumatology conference. This award recognizes outstanding medical and graduate students for significant work in the field of rheumatology.



Donnette Narine won 2nd place for her paper on Volunteering Educational Attainment and Literacy Skills Among Middle-Aged and Older Adults by Racial/Ethnic Groups in the US at SGS 2022.

Shalini Sahoo was awarded an SGS Travel Award.



Nicole Viviano is funded by an ORISE Fellowship within HRSA in the HIV/AIDS Bureau (HAB) in the Division of Policy and Data (DPD), specifically in the Data Management and Analysis Branch (DMAB).

Apply for the Costa Rican Fellowship

The Alicia and YaYa Global Fellowship in Aging Research is a collaborative effort between the University of Maryland Baltimore (UMB) Graduate School and the University of Costa Rica (UCR), San Jose to recognize and support outstanding pre-doctoral and/or post-doctoral students pursuing aging research and to reinforce diversity in aging research. <https://www.graduate.umaryland.edu/AliciaYaYa/>



Student Publications

Brown, J.L. Addressing Racial Capitalism's Impact on Black Essential Workers During the COVID-19 Pandemic: Policy Recommendations. *J. Racial and Ethnic Health Disparities* (2022). <https://doi.org/10.1007/s40615-022-01346-y>

McPherson, R., Resnick, B., Galik, E., Gruber-Baldini, A., Holmes, S., Kusmaul, N. (2022, accepted). The Association Between Engagement in Activities of Daily Living and Care Interactions for Residents Living with Dementia. *Journal of Nursing Care Quality*.

Sarno, D. M., **McPherson, R.,** & Neider, M. B. (2022). Is the key to phishing training persistence?: Developing a novel persistent intervention. *Journal of Experimental Psychology: Applied*. <https://doi.org/10.1037/xap0000410>

Student Publications continued

Resnick, B., Galik, E., Holmes, S., & **McPherson, R.** (2021). The impact of COVID-19 in an assisted living community. *Geriatric Nursing*, 42(5), 1151–1155. <https://doi.org/10.1016/j.gerinurse.2021.08.005>

Sahoo, S., Millar, R. J., Yamashita, T., & Cummins, P. A. (2021). Educational Attainment, Literacy Skills, Nativity, and Motivation to Learn Among Middle-Aged Adults in the United States. *Adult Learning*, 1. <https://doi-org.proxy-hs.researchport.umd.edu/10.1177/10451595211048554>

Prasad, N. K., Englum, B. R., Mayorga-Carlin, M., Turner, D. J., **Sahoo, S.**, Sorkin, J. D., & Lal, B. K. (2022). Partial COVID-19 vaccination associated with reduction in postoperative mortality and SARS-CoV-2 infection. *American Journal of Surgery*, S0002-9610(22)00216-1. Advance online publication. <https://doi.org/10.1016/j.amjsurg.2022.03.038>

Lal, B. K., Mayorga-Carlin, M., Kashyap, V., Jordan, W., Mukherjee, D., Cambria, R., Moore, W., Neville, R. F., Eckstein, H-H., **Sahoo, S.**, Macdonald, S., Sorkin, J. D. (2022). Learning curve and proficiency metrics for transcatheter aortic valve replacement. *Journal of Vascular Surgery*, 75(6), 1966–1976.e1. <https://doi.org/10.1016/j.jvs.2021.12.073>

Lal, B. K., Mayorga-Carlin, M., Kashyap, V., Jordan, W., Mukherjee, D., Cambria, R., Moore, W., Neville, R. F., Eckstein, H. H., **Sahoo, S.**, Macdonald, S., & Sorkin, J. D. (2022). Learning curve and proficiency metrics for transcatheter aortic valve replacement. *Journal of Vascular Surgery*, 75(6), 1966–1976.e1. <https://doi.org/10.1016/j.jvs.2021.12.073>

Schmalzle SA, **Viviano NA**, Mohanty K, Palmeiro RM, Hoffmann JD, Sheth-Pandit N, Gruber-Baldini A, Stafford KA. People aging with HIV - protecting a population vulnerable to effects of COVID-19 and its control measures. *AIDS Care*. 2021 Dec 24;1-9. doi: 10.1080/09540121.2021.2020208. Epub ahead of print. PMID: 34949149.

Student Conference Presentations

Brown J.L., & Davitt, J. (2021, November). Using voice and touchscreen technology to protect vulnerable clients in residential care facilities. Gerontological Society of America, online.

Cassatt, S & Parker E. (2022, March). A Pilot Study To Evaluate The Development And Implementation Of A Virtual Nutrition Education Program In Older Veterans”, Graduate Student Research Day UMB.

Kirk, J.M., Fleming, S., & Orwig, D. (2021). *Low Rates of Bone-Active Medication Utilization from 2013-2017 by Provider Type for Beneficiaries Aged 65+ with Medicare Part D*. International Society For Pharmacoepidemiology’s Annual International Conference on Pharmacoepidemiology. Presentation ID: 1716499. Poster #: P-189. Virtual August 23–25.

McPherson, R., Resnick, B., & Galik, E. (2021, November). The Influence of Staff-Resident Interactions on Resistiveness to Care Behavior in Assisted Living [Poster presentation]. Gerontological Society of America, online.

Narine, D., Yamashita, T., Punksungka, M., Helsinger, A., Kramer, J. W., Karam, R., & Cummins, P. A. (2022, April 4-9). *Volunteering, educational attainment, and literacy skills among middle-aged and older adults by racial and ethnic groups in the U.S.* [Conference presentation]. Southern Gerontological Society conference, Panama City, FL

Park, M. K., & Mair, C. (2021, November). Perceived Discrimination, Social Environment, and Older Adults’ Psychological Well-being. [Paper presentation, session chair]. Gerontological Society of America, online.

Sahoo, S., Yamashita, T., **Millar, R.J.**, & Cummins, P. (2021, November). Motivation to learn and multilingualism across the adult life stages in the U.S. [poster presentation]. Gerontological Society of America, online.

Tucker, G. (2022, April). Male informal non-spousal caregivers for persons with dementia: A neglected viewpoint. Southern Gerontological Society Conference, Panama City Beach, FL (virtual presentation).

Viviano, N. A., Gruber-Baldini, A. L., Schmalzle, S., Stafford, K., Chard, S., Mohanty, K., Parker, E., & Eke, U. (2021, November). Nutritional Risk and Health-Related Quality of Life in Older Adults Aging with HIV. Gerontological Society of America, online

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Alumni News

Presentations:

Holmes, S.D., Kuzucan, A., Olopoenia, A., Brandt, N., Briesacher, B., Qato, B., Zarowitz, B., & Wastila, L. Antipsychotic and Psychopharmacological Medications: Care Transitions Among Nursing Home Residents. Paper accepted for presentation at the annual meeting of the Gerontological Society of America, Phoenix, AZ. November 2021.

Heather Mutchie was the invited speaker at the Academy of the American Physical Therapy Association Geriatrics Journal Club to discuss the Four Square StepTest paper.

Podcasts:

Laura Girling Fitzpatrick was interviewed in UMBC The Center for Social Science Scholarship podcast. Learn about her research on people with dementia in the community. <https://www.podbean.com/pu/pbblog-4zwd3-a6a614>

Tara McMullen, co-led a special series for the Journal of the American Geriatrics Society (JAGS) that focuses on the IMPACT Act of 2014 (for the Centers for Medicare and Medicaid Services). This special series focuses on the work to standardize data elements for Medicare (eight papers in total). <https://agsjournals.onlinelibrary.wiley.com/.../jgs.17644>

Awards:

Heather Mutchie was awarded the 2022 Judith D. Tamkin Scholarship to attend the USC Judith D. Tamkin Symposium on Elder Abuse.

Job updates:



Israel Cross is now with the Health Resources and Services Administration (HRSA).

Heather Mutchie is now a post-doctoral fellow at Purdue University School of Nursing working with Adult Protective Services and Financial Exploitation .



Laura Frazier is an Institutional Research Analyst at St. Mary's College of Maryland. She also teaches undergraduate gerontology/social sciences classes at UMGC and HCC on a part-time, contractual basis

Laura Girling Fitzpatrick is now an Assistant Professor in the Department of Health Sciences in the Gerontology major at Towson University.



Iona Johnson is recently promoted to Assistant Provost for Diversity & Inclusion for Academic Affairs at Towson University.

Publications (selected):

Rashmita Bajracharya PhD, Jack M. Guralnik MD, PhD, Michelle D. Shardell PhD, Alan M. Rathbun PhD, MPH, Takashi Yamashita PhD, MPH, MA, Marc C. Hochberg MD, Ann L. Gruber-Baldini PhD, Jay S. Magaziner PhD, MSHyg, Denise L. Orwig PhD (2022) Long-term sex differences in all-cause and infection-specific mortality post hip fracture. Journal of the American Geriatrics Society, Vol 70 (7), pp 2107-2114. <https://doi.org/10.1111/jgs.17800>

de Medeiros, K., Berlinger, N., & **Girling, L.** (2022). Not Wanting to Lose the Dignity of Risk: On Living Alone with Dementia. Perspectives in Biology and Medicine, 65(2), 274-282. <https://pubmed.ncbi.nlm.nih.gov/35938435/>

Millstein LS, Rosenblatt P, Bellin MH, Whitney L, Eveland SR, Lee MC, Allen J, **Mutchie HL**, Becker TD, Cagle J. Advance Care Planning and Communication Skills Improve after an Interprofessional Team Simulation with Standardized Patients. Palliat Med Rep. 2022 Aug 8;3(1):123-131. doi: 10.1089/pmr.2021.0086. PMID: 36059907; PMCID: PMC9438443.

Mutchie HL, Albrecht JS, Orwig DL, Huang Y, Boscardin WJ, Hochberg MC, Magaziner JS, Gruber-Baldini AL. Differential misclassification of cognitive impairment by sex among hip fracture patients. J Am Geriatr Soc. 2022 Mar;70(3):838-845. doi: 10.1111/jgs.17594. Epub 2021 Dec 10. PMID: 34890469; PMCID: PMC8904289.

Featured Research of Recent Graduates

Rashmita Bajracharya, PhD

Postdoctoral Fellow, German Cancer Research Center, Heidelberg, Germany

Dissertation Title:

Examining Post-Hip fracture Characteristics to Explain Sex Differences in Short- and Long-Term Hip Fracture Mortality



Men die at a higher rate than women out to two years after a hip fracture. The number of hip fractures among men is expected to increase over the next 30 years with potential sex differences in long-term trajectories of recovery. Therefore, Aim 1 assessed whether male sex was a significant risk factor of all-cause and infection-specific mortality after hip fracture; Aim 2 determined if sex moderated the association between physical performance at 2 months post-fracture and mortality; and Aim 3 evaluated the mediating role of depressive symptoms (at 2 months post-fracture) on the association between TNF- α and mortality and if sex moderated the inflammation-depressive symptoms-mortality link.

Data came from Baltimore Hip Studies (BHS) 7th cohort (168 men, 171 women) (2006-2011) with recruitment in eight hospitals in the BHS network. Women were frequency-matched (1:1) to men on hospital and timing of admission. Cox proportional hazard models evaluated associations between sex and mortality (Aim 1) and the moderating effect of sex between physical performance measures and mortality (Aim 2). Interaction of time with sex and physical performance measures was successively added in the Cox models to determine the time-varying association of sex with mortality (Aim 1) or to determine the time-varying association of physical performance measures with mortality (Aim 2). An Aalen additive model was created and later stratified by sex to assess the mediating effect of depressive symptoms in the association of TNF α with mortality (Aim 3).

Participants were average age of 80 years and the median follow-up was 4.9 (Interquartile Range=2.3-8.7) years. Men had significantly higher all-cause [Hazard Ratio (HR)=2.31, 95% confidence interval (CI) 2.02-2.59] and infection-specific mortality [HR=4.43, CI 2.07-9.51]. A one-unit improvement in each physical performance measure was associated with a decrease in mortality [SPPB (HR=0.91, CI=0.83-0.98); gait speed (in meters/second) (HR=0.98, CI=0.97-0.99); and grip strength (in kg) (HR=0.95, CI=0.93-0.98)], but the associations did not differ by sex. TNF α had stronger association with mortality among men compared to women; there were 161 (95%, CI=36-286) and 16 (95%, CI=-58-89) additional deaths in men and women, respectively in the 3rd TNF α tertile compared to the 1st tertile. Depressive symptoms did not mediate the association of TNF α and all-cause mortality in either sex.

Results show higher long-term mortality in men and that infection and elevated acute TNF α levels may play a role in the sex difference.