

CHRISTINE B. PHILLIPS, Ph.D.

Formerly, Christine B. Haley

Phone: 804-314-8688

Email: Cbphill@clemson.edu

Address: 2123 Shea Ln, Seneca, SC 29672

https://www.researchgate.net/profile/Christine_Phillips11

EDUCATION

2013 **Ph.D., Aging Studies**

University of South Florida, Tampa, FL

1996 **M.S.S., Sport Fitness Management**

United States Sports Academy, Daphne, AL

1991 **B.S., Human Nutrition and Foods**

Virginia Tech, Blacksburg, VA

EXPERIENCE

Research Assistant Professor

December 2020-Present

Clemson University, Department of Psychology, Institute for Engaged Aging, Clemson, SC

VP, Resident Engagement

April 2019-December 2020

Atria Senior Living, Louisville, KY

- Lead the implementation and execution of Engage Life programs and initiatives for 200+ Atria communities across five brands
- Aligned and operationalized long-term vision and plan for resident well-being and engagement initiatives to Atria's business strategy and objectives
- Combined evidence-based principles with innovative solutions to support communities in meeting business and resident quality of life objectives

Postdoctoral Scholar

2016-2019

Arizona State University, College of Health Solutions, Phoenix, AZ

- Principal Investigator for NIH-funded project developing and applying an automated virtual audit tool using GIS, street-level map images, and deep learning techniques
- Lead multiple studies leading to peer-reviewed publications
- Collaborated with research teams within and outside of ASU to write grants, execute projects and develop conference presentations, publications, and funding agency reports

Postdoctoral Scholar

2014-2016

Penn State University, College of Health and Human Development, Study for Applied Aging Research and Programs Lab, University Park, PA

- Research focused on older adult cognitive interventions and functional outcomes
- Established and led community outreach program for underserved older adults
- Four peer-reviewed publications, one co-authored book chapter

- Research Specialist** 2013-2014
Arizona State University, Center for Applied Behavioral Health Policy, Phoenix, AZ
- Collaborated in study design and development of data analytic and quality assurance strategies
 - Applied statistical methodologies to analyze data from 5-year, 12-site, 3-protocol NIDA-funded study. Commonly used techniques included factor analyses, multilevel modeling and piecewise growth modeling
- Consultant** 2013
Active Aging Concepts, LLC, Reunion, FL
- Used a mixed-methods approach to develop recommendations for redesign of Continuing Care Retirement Community built environment, programming and outcomes measurement
- Director of Wellness** 2011-2013
Associated Asset Management, LLC, Tempe, AZ 2000-2001 & 2003-2004
- Coordinated health promotion, fitness and recreation programs for multiple Florida communities, increasing participation > 25% year over year
 - Partnered with external organizations and clinical entities to offer resident well-being programs
 - Collaborated with internal and external personnel to complete projects related to infrastructure design, equipment procurement, resident programs and marketing activities
- Research Assistant** 2009-2011
University of South Florida, Cognitive Aging Lab, Tampa, FL
- Administered neuropsychological and health behavior assessments to participants enrolled in NIH-funded clinical trial
 - Served as primary community liaison; established positive relationships with referral sources and potential participants to promote the lab and achieve recruitment goals
 - Adapted and tested measurement scales for cognitive training
- Alzheimer's Training Program Coordinator** 2008-2011
University of South Florida, Training Academy on Aging, Tampa, FL
- Oversaw curriculum review process for state-mandated training for ALF, nursing home, home health, and adult day care staff
 - Evaluated and reported program outcomes relevant to statute requirements
- Senior Wellness Manager** 2004-2007
National Institute for Fitness and Sport, Corporate Client: Anthem/WellPoint, Richmond, VA
- Designed/implemented/evaluated health promotion programs for diverse associate population for corporate client with 40,000+ employees
 - Fitness lead on state-wide wellness advisory committee awarded a gold Wellness Council of America WELL WORKPLACE designation

Wellness Coordinator 2001-2003
Westminster Retirement Communities, Winter Park, FL

- Organized wellness education activities, including annual wellness fairs, health screenings, lunch-and-learns and guest speakers
- Achieved or exceeded annual benchmarks for program participation

Strength and Conditioning Coordinator for Women's Olympic Sports 1997-2000
Virginia Tech, Blacksburg, VA

- Implemented year-round strength and conditioning activities for women's varsity sport teams
- Conducted educational programs in the areas of proper nutrition, supplementation and training methods

GRANTS

Current Research

1R01AG070349-01/sub - 6118-1093-00-C (J. Edwards, PI).

NIH/National Institute on Aging

CU Subaward: \$3,511,846

02/01/2021-01/31/2026

Preventing Alzheimer's Disease with Cognitive Training: The PACT Trial: Phase II

Role: Co-Investigator

7U01AG062370 (L. Ross, PI)

NIH/National Institute on Aging

\$1,518,255 (including supplemental)

02/30/2021-11/30/2021

Elucidating the Necessary Components and Mechanisms of Cognitive Training (ENACT)

Role: Co-Investigator

90FPSG0047-01-00 (M. VanPuybroeck, PI)

DHHS/Administration for Community Living

\$286,985

05/2021-05/2024

Reducing Fall Risk in Rural, Older South Carolinians

Role: Co-Investigator

Completed Research

3R01CA198915-04 (M. Adams & C. Phillips, MPIs)

NIH/National Cancer Institute

\$148,802

Automating Neighborhood Street Audits: Administrative Supplement to CA198915 2018

09/01/2018-08/31/2019

Role: Principal Investigator

Arizona State University Institute for Social Science Research Seed Grant (C. Phillips, PI)
\$7,916
Image Labeling for Automating Streetscape Audits
04/01/2018-12/30/2018
Role: PI

PEER REVIEWED PUBLICATIONS

McEntee, M. L., Cantley, A., Foreman, E., Berardi, V. B., **Phillips, C. B.**, Hurley, J. C. Hovell, M. G., Hooker, S., Adams, M. A. (2020). Effects of goal type and reinforcement type on self-reported domain-specific walking among inactive adults: 2x2 factorial randomized controlled trial. *JMIR Formative Research*, 4(12):e19863. doi: 10.2196/19863

Edwards, J. D., **Phillips, C. B.**, O'Connor, M. L., O'Brien, J. L., Hudak, E. M., & Nicholson, J. S. (2020). Applying the health belief model to quantify and investigate expectations for computerized cognitive training. *Journal of Cognitive Enhancement*, 5, 51-61. <https://doi.org/10.1007/s41465-020-00183-3>

Berardi, V. B., Hovell, M., Hurley, J. C., **Phillips, C. B.**, Bellettiere, J., Todd, M. & Adams, M. A. (2020). Variable magnitude and frequency financial reinforcement is effective at increasing adults' free-living physical activity. *Perspectives on Behavioral Science*. <https://doi.org/10.1007/s40614-019-00241-y>

Sprague, B. N., Freed, S. A., **Phillips, C. B.**, & Ross, L. A. (2020). A viewpoint on change point modeling for cognitive aging research: Moving from description to intervention and practice, *Ageing Research Reviews*, 58, 101003. doi:org/10.1016/j.arr.2019.101003

Sprague, B. N., **Phillips, C. B.**, & Ross, L. A. (2019). Cognitive training attenuates age-related decline in physical function across 10 years. *Innovation in Aging*, 3(Suppl 1): S214. doi: 10.1093/geroni/igz038.785

Adams, M. A., Hurley, J. C., **Phillips, C. B.**, Todd, M. Angadi, S. S., Berardi, V., Hovell, M. F., & Hooker, S. (2019). Rationale, design, and baseline characteristics of WalkIT Arizona: A factorial randomized trial testing adaptive goals and financial reinforcement to increase walking across higher and lower walkable neighborhoods. *Contemporary Clinical Trials*, 81, 87-101. doi: 10.1016/j.cct.2019.05.001

Phillips, C. B., Hurley, J. C., Angadi, S. S., Todd, M., Berardi, V., Hovell, M. F., & Adams, M. A. (2019). Delay discount rate moderates a physical activity intervention testing immediate rewards. *Behavioral Medicine*, 1-11. doi: 10.1080/08964289.2019.1570071

Phillips, C. B., Freed, S. A., & Ross, L. A. (2019). Older adult lifespaces varies by driving status and residential population density. *Transportation Research Record: Journal of the Transportation Research Board*, 2673 (7), 586-595. doi: org/10.1177/0361198119846092

Sprague, B. N., Freed, S. A., Webb, C. E., **Phillips, C. B.**, Hyun, J., & Ross, L. A. (2019). The impact of behavioral interventions on cognitive function in healthy older adults. *Ageing Research Reviews*. 52, 32-52. doi: 10.1016/j.arr.2019.04.002

Ross, L. A., Sprague, B. N., **Phillips, C. B.**, O'Connor, M. L., & Dodson, J. E. (2018). The impact of three cognitive training interventions on older adults' physical functioning across five years. *Journal of Aging and Health*, 30(3), 475-498. doi: 10.1177/0898264316682916

Sprague, B. N., **Phillips, C. B.**, & Ross, L. A. (2017). Age-varying relationships between physical function and cognition in older adulthood. *Journals of Gerontology: Series B*, gbx126. <https://doi.org/10.1093/geronb/gbx126>

Phillips, C. B., Engelberg, J. K., Cain, K. L., Geremia, C. M., Conway, T. L., Zhu, W., Kurka, J. M., Sallis, J. F. & Adams, M. A. (2017). Online versus in-person comparison of Microscale Audits of Pedestrian Streetscapes (MAPS) assessments: Reliability of alternate methods. *International Journal of Health Geographics*, 16, 27. <http://doi.org/10.1186/s12942-017-0101-0>

Ross, L. A., Freed, S. A., **Phillips, C. B.**, Edwards, J. D., & Ball, K. K. (2017). The impact of three cognitive training programs on driving cessation across ten years: A randomized controlled trial. *Gerontologist*, 57(5), 1-9. doi: 10.1093/geront/gnw143

Phillips, C. B., Sprague, B. N., Freed, S. A., & Ross, L. A. (2016). Longitudinal associations between changes in physical function and driving mobility behaviors of older adults. *Transportation Research Record: Journal of the Transportation Research Board*, 2584, 70-76. doi: 10.3141/2584-09

Phillips, C. B., Edwards, J. D., Ansel, R., & Kilpatrick, M. (2016). Daily physical activity and cognitive function variability in older adults. *Journal of Aging and Physical Activity*, 24(2), 256 – 267. doi: 10.1123/japa.2014-0222

Edwards, J. D., Ruva, C. L., O'Brien, J. L., **Haley, C. B.**, & Lister, J. J. (2013). An examination of mediators of the transfer of cognitive speed of processing training to everyday functional performance. *Psychology and Aging*, 28(2), 314-321. doi: 10.1037/a0030474

Young, T. L., Granic, A., Chen, T. Y., **Haley, C. B.**, & Edwards, J. D. (2010). Everyday reasoning abilities in persons with Parkinson's disease. *Movement Disorders*, 25(26), 2756-2761. doi: 10.1002/mds.23379

Haley, C. B. & Ansel, R. (2010). Correlates of physical activity participation in community-dwelling older adults. *Journal of Aging and Physical Activity*, 18(4), 375-389. doi: 10.1123/japa.18.4.375

MANUSCRIPTS UNDER REVIEW

Adams, M. A., Todd, M., Angadi, S. S., Hurley, J. C., Stecher, C., Berardi, V., **Phillips, C. B.**, McEntee, M., Hovell, M. F., & Hooker, S. (revise and resubmit). Adaptive goal setting and financial reinforcement to increase moderate to vigorous physical activity in insufficiently active overweight adults: A randomized clinical trial.

Freed, S. A., Sprague, B. N., Stephan, A. T., Doyle, C. E., Tian, J., **Phillips, C. B.**, & Ross, L. A. (under initial review). Exergame Feasibility for Social Connectedness: Feasibility and Enjoyment of Exercise Video Games in Older Adults for Social Connectedness.

CONFERENCE PRESENTATIONS

Phillips, C. B., Todd, M., Hurley, J. C., & Adams, M. A. Exploring time-varying relationships between weather factors and objectively-measured physical activity in Phoenix, Arizona. Poster presented at the 2019 Active Living Research Conference, Charleston, SC.

Adams, M. A., Berardi, V. B., **Phillips, C. B.**, Hurley, J. C., Todd, M., Angadi, S. S., & Hovell, M. F. Effects of continuous reinforcement vs. variable magnitude and probability reinforcement on adults' physical activity. Paper presented at the Society of Behavioral Medicine 2019 Annual Meeting.

Phillips, C. B., Freed, S. A., & Ross, L. A. (January, 2019). Older adult lifespace varies by driving status and residential density. Poster presented at the Transportation Research Board of the National Academies 2019 Annual Meeting, Washington, DC.

Phillips, C. B., Hurley, J. C., Todd, M., Angadi, S. S., Berardi V., Hovell, M. F., & Adams, M. A. (April, 2018). Delay discount rate moderates a physical activity intervention testing immediate rewards. Paper presented at the Society of Behavioral Medicine 2018 Annual Meeting.

Phillips, C. B., Adams, M. A., Hurley, J. C., Hook, H., Zhu, W., Western, E. & Yu, T. Y. (February, 2018). Assessing microscale features supportive of physical activity: Reliability of online crowdsourced ratings. Poster presented at the Active Living Research Conference 2018, Banff, Canada.

Phillips, C. B., Engleberg, J. K., Conway, T. L., Cain, K. L., Geremia, C. M., Zhu, W., Kurka, J., Sallis, J., & Adams, M.A. (November, 2017). Online versus in-person comparison of the Microscale Audit Pedestrian Streetscapes (MAPS) observation tool: Reliability of alternate methods. Poster presented at the American Public Health Association Annual Meeting and Expo, Atlanta, GA.

Phillips, C. B., Sprague, B. N., Freed, S. A., & Ross, L.A. (January, 2016). Longitudinal associations between changes in physical function and driving mobility behaviors among older adults. Peer reviewed paper presented at the Transportation Research Board of the National Academies 2016 Annual Meeting, Washington, DC.

Phillips, C. B., Van Florcke, D. F., Ross, L. A. (January, 2016). Rural older adults: Mobility in a lifespace context. Invited overview talk presented at the Human Factors Workshop: Mobility Solutions for Isolated Seniors: Challenges and Opportunities at the Transportation Research Board of the National Academies 2016 Annual Meeting, Washington, DC.

Phillips, C. B., Johnson, L., & Ross, L. A. (November, 2015). Dimensionality of IADL self-report and performance-based measures. Poster presented at the Gerontological Society of America 68th Annual Meeting, Orlando, FL.

BOOK CHAPTERS

Ross, L. A., **Phillips, C. B.**, & Freed, S. A. (2018). Driving mobility in late life. In M. H. Bornstein (Ed.), *The SAGE Encyclopedia of Lifespan Human Development*. (pp. 667-670). SAGE Publications.

Brown, L. M., **Haley, C.**, & Bryant, C. (2012). The role of social marketing in developing disaster behavioral health programs. In J. L. Framingham & M. L. Teasley (Eds.), *Behavioral health response to disasters*. (pp. 371-388). Boca Raton, Florida: Taylor & Francis Group.

HONORS and AWARDS

Faculty Scholar appointment, Clemson University School of Health Research 2021-Present
Mary Anna Mangino Community Service Endowment Award, 2015-2016
Penn State University

PROFESSIONAL CERTIFICATIONS AND TRAINING

Certified Aging in Place Specialist, National Association of Home Builders
Certified Strength and Conditioning Specialist, National Strength and Conditioning Association
Older Adult Fitness Certified, American Institute of Fitness Educators
Matter of Balance Falls Prevention Program Coach
Arthritis Aquatics Instructor, Arthritis Foundation-YMCA
Arthritis Self-Help Course Leader, Arthritis Foundation

PROFESSIONAL ASSOCIATIONS

Gerontological Society of America
National Strength and Conditioning Association