**CHRISTINE B. PHILLIPS**

Formerly, Christine B. Haley

ResearchGate: <https://www.researchgate.net/profile/Christine_Phillips11>

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# 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

**Keywords/research interests:** physical activity, active aging, everyday functional abilities, cognitive training, community mobility, built environment

# ACADEMIC AND RESEARCH EXPERIENCE

## 2020 – Present Research Assistant Professor

##  *Clemson University, Department of Psychology, Institute for Engaged Aging*

 *Co-Director, Study of Healthy Aging and Applied Research Programs Lab*

## 2016 – 2019 Postdoctoral Research Scholar

*Arizona State University, College of Health Solutions*

2014 - 2016 **Postdoctoral Research Scholar**

 *Penn State University, Study for Healthy Aging and Applied Research Programs (SHAARP) Lab, Center for Healthy Aging*

## 2013 - 2014 Research Specialist

*Arizona State University, Center for Applied Behavioral Health Policy*

2009 - 2011 **Research Assistant**

*University of South Florida, Cognitive Aging Lab*

# TEACHING AND MENTORSHIP

# 2020 - Present Instructor/Mentor: Clemson University PSYC 498-471, *SHAARP Lab Experience*, Fall and Spring Semesters

Spring 2011 Instructor: University of South Florida GEY 3601, *Physical Changes and Aging*

2008 - 2010 Graduate Teaching Assistant: University of South Florida DEP 2004, *The Life Cycle* (Fall and Spring Semesters)

Spring 2008 Graduate Teaching Assistant: University of South Florida GEY 4612, *Psychology of Aging*

2021 - Present Serve as secondary mentor to graduate students (3 current) and co-mentor for postdoctoral fellows (1 current) affiliated with the SHAARP Lab and the Institute for Engaged Aging

# GRANTS

Active

2230494 (S. Lyu, PI)

National Science Foundation, Subaward from State University of New York at Buffalo

$5,000,000; CU Amount: $314,552

8/2022-7/2024

Disinformation Awareness and Resilience Training

Role: Co-I

1R01AG075014 (J. Edwards, PI)

NIH/National Institute on Aging, Subaward from the University of South Florida

$24,841,758; CU Amount: $5,141,089

07/2022-06/2027

*ACTIVE MIND: An Adaptive Clinical Trial of Cognitive Training to Improve Function and Delay Dementia*

Role: Co-I

Carolina Center on Alzheimer’s Disease and Minority Research (CCADMIR) Pilot Project Grant (C. Phillips, PI)

$29,344

*Early Detection of Cognitive Decline: Examining Motor and IADL Functions in the Context of Neighborhood Disadvantage*

7/1/2022-6/30/2023

Role: PI

Clemson University R-Initiative Grant (L. Ross, C. Phillips, Co-PI)

$150,000

*CU Fellow: Postdoctoral Fellowships in ADRD Research Dissemination*

07/01/2022-06/30/2024

Role: Co-PI

Prisma Health Research Seed Grant (C. Phillips, PI)

$19,997

*Early Detection of Adults At-Risk for Cognitive and Functional Decline*

*04/01/2022-03/31/2023*

Role: PI

1R01AG070349 (J. Edwards, PI).

NIH/National Institute on Aging, Subaward from the University of South Florida

$44,362,843; CU Amount: $5,433,063

02/01/2021-01/31/2026

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

Role: Co-I

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-I

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

DHHS/Administration for Community Living

$286,985

05/2021–05/2024

Reducing Fall Risk in Rural, Older South Carolinians

Role: Co-I

Completed

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: PI

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

† Denotes co-first author

Nicholson, J. S., Hudak, E.M., **Phillips, C.B.**, Chanti-Ketterl, M., O’Brien, J.L., Ross, L.A., Lister, J.J., Burke, J.R., Potter, G., Plassman, B., Woods, A.J., Krischer, J., & Edwards, J.D. (2022). The Preventing Alzheimer’s with Cognitive Training (PACT) randomized controlled trial. *Contemporary Clinical Trials,* 123, 10698.https://doi.org/10.1016/j.cct.2022.106978

Adams, M. A.†, **Phillips,** **C. B.†**, Patel, A., & Middel, A. (2022). Training computers to see the built environment related to physical activity: Detection of microscale walkability features using computer vision. *International Journal of Environmental Research and Public Health* 19(8), 4548; https://doi.org/10.3390/ijerph19084548

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. (2021). Adaptive goal setting and financial reinforcement to increase moderate to vigorous physical activity in insufficiently active overweight adults: A randomized clinical trial. *American Journal of Preventive Medicine*. https://doi.org/10.1016/j.amepre.2021.09.014

Freed, S. A., Sprague, B. N., Stephan, A. T., Doyle, C. E., Tian, J., **Phillips, C. B.**, & Ross, L. A. (2021). Feasibility and enjoyment of exercise video games in older adults for social connectedness. *Frontiers in Public Health,* 9.https://doi.org/10.3389/fpubh.2021.751289

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 lifespace 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., Andel, 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.** & Andel, 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

**Phillips, C. B.**, McVey, A., Tian, J., Stephan, A. T., Davis, W. B., Aflagah, E. L., & Ross, L. A. (2023). *Mixed effects of three behavioral interventions on older adults’ cognitive, physical and everyday function: A pilot randomized controlled trial*

Stephan, A. T., McVey, A., Wolf, A. V., Sprague, B. N., **Phillips, C. B**., & Ross, L. A. (2023). *Differential associations of depressive symptoms on cognitive status by living situation in healthy older adults.*

Stephan, A. T., McVey, A., Steele, T., Cooper, K., **Phillips, C. B.**, & Ross, L. A. (2023). *Older adults’ perceptions of cognitive, physical, and exergame training: A mixed methods investigation of a four-armed randomized controlled pilot trial*.

# OTHER PUBLICATIONS

Doyle, C., **Phillips, C. B.**, Bailey-Taylor, M., Ross, L. A. (2022). Mental sharpness in older adults: Check on your mood before blaming your mind. Arlington, VA: National Council on Aging online article. https://www.ncoa.org/article/mental-sharpness-in-older-adults-check-on-your-mood-before-blaming-your-mind

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

# SELECT CONFERENCE PRESENTATIONS

**Phillips, C. B.**, Patel, A., & Adams, M.A. (May 2022). Training computers to see the built environment related to physical activity: An artificial intelligence approach to conducting pedestrian streetscape audits. Oral presentation at the International Society of Behavioral Nutrition and Physical Activity (ISBNPA) meeting, Phoenix, AZ.

**Phillips, C. B.,** Stephan, A., McVey, A., Tian, J., Freed, S., & Ross, L. A. (April 2022). Preliminary effects of three behavioral interventions on functional outcomes in older adults: Results from the Cognitive and Physical Exercise Study (CAPES). Poster presented at the 2022 Cognitive Aging Conference, Atlanta, GA.

**Phillips, C. B.**, Todd, M., Hurley, J. C., & Adams, M. A. (February 2019). 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. (March 2019). 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.**, 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.

# INVITED TALKS

2016 *Physical Activity & Healthy Aging*. CEU lecture presented at the Geriatric Workforce Education Project: Lifestyle & Intervention Training, Center for Healthy Aging, State College, PA

2016 *Move It! Physical Activity and Aging: Current Evidence and Future Directions*. Healthy Aging Community Lecture Series, State College, PA

2015 *Nutrition and Successful Aging*. PhD Seminar in Successful Aging, Pennsylvania State University, State College, PA

2011 *Physical Activity, Aging, and Health.* PhD Seminar in Health, School of Aging Studies, University of South Florida, Tampa, FL

2011 *Resistance Training for Older Adults.* Physical Changes and Aging, School of Aging Studies, University of South Florida, Tampa, FL

2009 *Longevity, Health and Functioning,* Psychology of Aging, School of Aging Studies, University of South Florida, Tampa, FL

# PROFESSIONAL WORK EXPERIENCE

## 2019 - 2020 VP, Resident Engagement

 *Atria Senior Living*

## 2013 Consultant

*Active Aging Concepts, LLC*

## 2011 - 2013 Director of Wellness

*Associated Asset Management, LLC*

2008 - 2011  **Alzheimer's Training Program Coordinator**

*University of South Florida, Training Academy on Aging*

## 2004 - 2007 Senior Manager

*National Institute for Fitness and Sport*

## 2000 - 2001 Fitness Director

*2003 - 2004 Solivita Active Adult Community*

## 2001 - 2003 Wellness Coordinator

*Westminster Retirement Communities*

1997 - 2000 **Strength and Conditioning Coordinator for Women's Olympic Sports**

*Virginia Tech Athletic Department*

# HONORS AND AWARDS

# 2021 Faculty Scholar appointment, Clemson University School of Health Research

2016 Mary Anna Mangino Community Service Endowment Award: Outreach for Underserved Rural Older Adults

# SERVICE

2022 - South Carolina Institute of Medicine and Public Health, Social Isolation in Older Adults Taskforce member

2022 - Faculty advisor to the Clemson University chapter of the National Alzheimer’s Buddies student organization

2022 - Data Safety Monitoring Board Member for NIH/NCCIH funded (1R34AT011015) Clinical Trial (NCT05309083), Moving Mindfully: A Mindfulness-Based Stress Reduction Approach to Freezing in Parkinson Disease

2010 - Present Ad hoc reviewer for the following journals:

*IEEE Transactions on Games, Journal of Aging and Health, Experimental Gerontology, International Journal of Health Geographics, Journals of Gerontology, Series B: Psychological Sciences and Social Sciences, Transportation Research Record, Alzheimer's and Dementia, Journal of Aging and Physical Activity*

*Journal of Leisure Sciences, European Review of Aging and Physical Activity, Aging Neuropsychology and Cognition*

2015 - 2016 Community Outreach Program Founder & Lead, Penn State SHAARP Lab

2014 - 2016 Penn State Postdoc Executive Council

2011 - 2013 Kissimmee/St. Cloud Senior Games Planning Committee Member

# PROFESSIONAL CERTIFICATIONS AND TRAINING

* Certified Strength and Conditioning Specialist (C.S.C.S.), 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