

CARRIE LEACH

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EDUCATION

- 2019 Ph.D., Health Communication
Wayne State University, Detroit, MI
Dissertation Title: *Understanding the utilization of community-based services in late old age: A participatory approach for connecting through the communication ecology*. doi:10.13140/RG.2.2.27546.16320
https://digitalcommons.wayne.edu/oa_dissertations/2223
- 2009 M.P.A., Master of Public Administration, Non-Profit Policy and Leadership Concentration
Wayne State University, Detroit, MI
- 2004 B.A., Communication
Madonna University, Livonia, MI

INTERESTS & EXPERTISE

Community-based participatory research
Community engaged research
Communication and information disparities
Communication infrastructure of older adults
Community-based and aging services
Digital exclusion and the role of technology in health disparities
Evaluation and needs assessment
Environmental health literacy and communication
Hard-to-reach older adults
Science communication

PROFESSIONAL EXPERIENCE

Current

- 2023- Community Engagement Co-Director, Center for Urban Responses to Environmental Stressors (CURES), Community Engagement Core (CEC), National Institute for Environmental Health Sciences (NIEHS) Grant No. P30ES020957, Institute of Environmental Health Sciences, Wayne State University

- 2022- Associate Center Director for Community Inclusion, Center for Health Equity and Community Knowledge in Urban Populations (CHECK-UP), Wayne State University
- 2021- Research Assistant Professor, Institute of Gerontology, Wayne State University
- 2019- Adjunct Faculty, Public Health Department, Wayne State University

Former

- 2014-2023 Program Manager, Community Engagement Core, Center for Urban Responses to Environmental Stressors (CURES), National Institute for Environmental Health Sciences (NIEHS) Grant No. P30ES020957, Institute of Environmental Health Sciences, Wayne State University
- 2019-2021 Research Associate, Institute of Gerontology, Wayne State University
- 2009-2019 Research Assistant, Institute of Gerontology, Wayne State University
- 2009-2010 Public Policy Associate, United Way for Southeast Michigan, Detroit

Professional Development

- 2022 Implicit Bias & Microaggression Certification, 3-part training workshop: *Trauma is Real: Understanding and Interrupting Microaggressions*; Workshop 1 of 3; *Microaggressions: Reframing and Navigating Triggering Events*; Workshop 2 of 3; *Intersectionality: Examining the Concepts of Privilege*, Workshop 3 of 3
- 2022 Community-Engaged Scholarship Summer Intensive, Michigan State University, June 6–10

GRANT SUPPORT

Active

- 2023-2025 *Bridging the Divide: Fostering Partnerships for Urban African American Aging Research*
 Funding Source: [Patient Centered Outcomes Research Institute \(PCORI\)](#)
 Community Engagement Capacity Building Award, \$227,765 (DC)
 Goals: To build the capacity of older adults to participate and partner in research by delivering digital and research literacy materials and training co-developed in partnership with WSU researchers and aging and community health advocates; develop an older adult driven research agenda based on the communities’ most pressing research questions.
Role: Principal Investigator

- 2023-2025 *More Than a Divide?: Exploring the Challenges Older Adults Experience Engaging with Health Services and Information in a Digitally Disconnected Urban Environment*
 Funding Source: Michigan Center for Urban African-American Aging Research (MCUAAAR) via National Institutes of Health (NIH) & National Institute of Aging (NIA), \$40,000 (DC)
 Goals: Examine how older adults perceive and experience digital exclusion and the multiple levels of influence in connecting with health services and information in the digital environment; assess older adults needs and challenges related to using devices, and barriers and facilitating forces that influence use
Role: Principal Investigator
- 2023-2024 *Center for Urban Responses to Environmental Stressors (CURES) Community Engagement Core (CEC)*
 Funding Source: National Institute of Environmental Health Sciences (NIEHS), P30ES020957 (PI: Runge-Morris), \$35,000 (DC)
Role: Co-Investigator, Community Engagement Co-Director
- 2023-2024 *Center for Health Equity and Community Knowledge in Urban Populations (CHECK-UP)*
 Funding Source: CVS Health (PI: Thompson), \$300,000 (TC)
 Goals: Accelerate community-academic research partnerships by facilitating collaboration to improve health outcomes and reduce barriers to achieving health equity in Detroit.
Role: Co-Investigator
- 2022-2027 *Infrastructure to Establish the Center for Health Equity and Community Knowledge in Urban Populations (CHECK-UP)*
 Goals: To lay an infrastructure that will help to address barriers to health equity and build the capacity of researchers and community stakeholders to engage in collaborative investigations driven by community concerns and questions
 Funding Source: Wayne State University School (PI: Thompson), \$150,000 (Annual DC)
Role: Associate Center Director for Community Inclusion
- 2022-2024 *NCIRD COVID-19 Vaccination Supplement 4: Michigan Developmental Disabilities Institute (MI-DDI)*
 Funding Source: Funding Source: National Center for Immunization and Respiratory Diseases (NCIRD) COVID-19 Vaccination Supplement, Michigan Department of Health and Human Services, Immunizations Division (PI: Milberger)
 Goals: Increase the number of vaccinated people with disabilities, along with their family members and caregivers; people who are homebound or isolated; people with transportation limitations; and people living in communities with high social vulnerability index.
Role: Consultant

Under Review

- 2024-2026 *Building Capacity for Disability and Intersectionality Research*
 Funding Source: Patient Centered Outcomes Research Institute (PCORI), Community Engagement Capacity Building Award, \$250,00 (TC), (PI: Milberger)
 Goals: Increase the capacity of people with intellectual and developmental disabilities (IDD) to partner in and contribute to virtual patient centered outcomes research by adapting and delivering digital literacy skills building tools; develop an IDD driven research agenda based on the communities' most pressing research questions.
 Role: Co-I
- 2024-2028 *Center for Urban Responses to Environmental Stressors (CURES) Community Engagement Core (CEC)*
 Funding Source: NIEHS P30ES020957 (PI: Runge-Morris)
 Role: Co-I, Community Engagement Co-Leader
- Complete**
- 2014-2023 *Center for Urban Responses to Environmental Stressors (CURES) Community Engagement Core (CEC)*
 Funding Source: NIEHS P30ES020957 (PI: Runge-Morris), \$163,807 (Annual CEC DC)
 Role: Community Engagement Program Manager
- 2020-2022 *Maternal Inflammation and Environmental Toxicants: Investigating the Associations and Needs of Detroit Women*
 Goals: To examine the effects of environmental toxicant exposures and maternal inflammation during pregnancy through contact-free approach and to develop a research communication and translation plan to disseminate findings based on preferences of research participants.
 Funding Source: NIEHS P30ES020957 CURES Pilot Project Program (MPIs: Cassidy, Straughen HFHS), \$65,000 (Total DC)
 Role: Co-Investigator
- 2020-2021 *Addressing the Digital Divide: Connecting Seniors with Technology*
 Goal: The major goal of this project was to distribute devices and materials aimed at addressing digital literacy and digital justice for older adults residing in Detroit whose health circumstances are exacerbated by digital exclusion, a determinant of health.
 Funding Source: Michigan Coronavirus Task Force on Racial Disparities Rapid Response Initiative, State of Michigan; \$514,729 (DC)
 Role: Principal Investigator
- 2020 *Advancing Health Equity: The Impact of Coronavirus Now and In the Future, Community Engaged Research Symposium*
 Goal: The major goal of this community-engaged research symposium was to create a space for community stakeholders and academic researchers to network, share research priorities, and advance community-engaged science
 Funding Source: Vice President for Research, Wayne State University, \$25,067 (TC)

Role: Co-Principal Investigator (MPIs Thompson, Dailey)

2018-2020 *UP-SCAN: Addressing Elder Financial Exploitation in Rural Communities Project*

Goals: To evaluate and report findings of the UP-SCAN project and process aimed at developing a financial exploitation prevention network, an online referral system, delivering training in increase the capacity to report financial exploitation, and the effectiveness of increasing awareness of the network and affiliated outputs through various communication outlets and a public awareness campaign.

Funding Source: U.S. Department of Justice (PI: Jankowski); \$90,000 (DC)

Role: Program Evaluation

2017-2018 *Supporting Multidirectional Dialogue Between Environmental Health Science Scientists and Decision Makers*

Goals: This project aimed to strengthen the capacity of environmental health researchers so that they may effectively interact with decision makers whether in their everyday lives or at the policy level, toward the end of supporting effective problem solving around environmental health issues.

Funding Source: NIEHS PA-17-317 EHSCC P30 Administrative Supplement (PI: Schroeck), \$46,706 (Total DC)

Role: Project Lead

SCHOLARSHIP

Peer-Reviewed Publications

Indicates community expert co-author

1. **Leach, C.** & Jankowski, T. Older adults as key assets in a community-based participatory needs assessment: How partnering with older people improves local aging policy and practice. *Gerontology & Geriatric Medicine (Accepted)*.
2. **Leach, C.**, Novak, J., Jankowski, T., Pierce, S. & Lapan, P. (2023). An exploration of the communication dynamics of the hard-to-reach: Considering disintegration of a communication infrastructure in old age. *International Journal of Communication*, 17, 5781–5801. <https://ijoc.org/index.php/ijoc/article/view/21006/4323>
3. **Leach, C.**, Schulz, A., Schroeck, N., Lawrence, S., Williams, G., Sand, S., Bewaji, O., & Fuchs-Young, R. (2023). Multi-directional communication between decision makers and environmental health researchers: A qualitative inquiry. *Environmental Hazards: Human & Policy Dimensions*, 1–16, <https://doi.org/10.1080/17477891.2023.2256727>
4. Schroeck, N. & **Leach, C.** (2023). The exacerbating role of technical and connectivity challenges on older Detroiters' health in a pandemic. *Seattle Journal of Technology, Environmental & Innovation Law*, Vol. 13: Iss.12, Article 1. Accessible @ <https://digitalcommons.law.seattleu.edu/sjteil/vol13/iss2/1> PMID: PMC10287550

5. **Leach, C.**, Schroeck, N., Blessman, J., Rorai, V., Cooper-Sargent, M., Lichtenberg, P. & Trentacosta, C. (2022). Engaged communication of environmental health science: Processes and outcomes of urban academic-community partnerships. *Applied Environmental Education & Communication*, 21, 7-22. doi: 10.1080/1533015X.2021.1930609 PMID: PMC9037758
6. Lichtenberg, P., **Leach, C.**, Smith, B., Schroeck, N. & Blessman, J. (2017). Co-constructing environmental stewardship: A Detroit-driven participatory approach. *Public Policy & Aging Report*, 27(1), 37-39. doi:10.1093/ppar/prw026 PMID: PMC8865391
7. Russo, T, **Leach, C.**, Lysack, C., Paulson, D. & Lichtenberg, P. (2014). Efficacy of a train-the-trainer curriculum for increasing occupational therapists' mental health knowledge. *Occupational Therapy in Mental Health Journal*, 30(1), 90-106. doi: 10.1080/0164212X.2014.878515
8. Lysack, C., **Leach, C.**, Russo, T., Paulson, D. & Lichtenberg, P.A. (2013). DVD training for depression identification and treatment in older adults: A two-group randomized wait-list control study. *American Journal of Occupational Therapy*, 67(5), 584-593. doi: 10.5014/ajot.2013.008060

Abstracts

9. **Leach, C.** & Moss, K. (2023). Inclusion and integration of community stakeholder perspectives in research: Insight from and for gerontologists. *Innovation in Aging*, 7(Suppl 1):582. [Abstract] <https://doi.org/10.1093/geroni/igad104.1906>
10. **Leach, C.**, Sneed, R. & Perry, T. (2023). Benefits and barriers of community engaged research and strategies for strengthening partnership. *Innovation in Aging*, 7(Suppl 1):85. [Abstract] <https://doi.org/10.1093/geroni/igad104.0275>
11. **Leach, C.**, Gan, D., Brothers, A., Sargent, L. & Dys, S. (2023). The promise and challenges of gerontologists who advance the science of community-engaged research. *Innovation in Aging*, 7, (Suppl1):582–583. [Abstract] <https://doi.org/10.1093/geroni/igad104.1907>
12. **Leach, C.** (2023). In their own words: Dynamics that contribute to successful and sustained partnerships in CBPR with older people. *Innovation in Aging*, 7(Suppl1):85–86. [Abstract] <https://doi.org/10.1093/geroni/igad104.0276>
13. **Leach, C.** & Geary, C. (2022). Opportunities and outcomes of centering older adults in patient-oriented and community-engaged research. *Innovation in Aging*, 20;6(Suppl 1):367. [Abstract] <https://doi.org/10.1093/geroni/igac059.1449>
14. **Leach, C.** & Jankowski, T. (2022). Exploring communication disparities in late old age through the lens of communication infrastructure theory, *Innovation in Aging*, 20;6(Suppl 1):585. [Abstract] <https://doi.org/10.1093/geroni/igac059.2195>
15. **Leach, C.** & Jankowski, T. (2022). Community perspectives on communication disparities in late old age and tactics to connect with the hardly reached. *Innov*

- Aging*, 20;6(Suppl 1):367. [Abstract] doi: 10.1093/geroni/igac059.1450. PMID: PMC9766723.
16. **Leach, C.** & Novak, J. (2019). Examining community-based service disconnects in late old age: Paths for reach through the communication ecology. *Innovation in Aging*, 3(Suppl 1):174. [Abstract] doi: 10.1093/geroni/igz038.3302
 17. Lichtenberg, P., **Leach, C.**, Russo, T., Paulson, D. & Lysack, C. (2012). Enhancing mental health treatment for older adults in medical rehabilitation: A randomized clinical trial. *Gerontologist*, 52(Issue S1):538. [Abstract] <https://doi.org/10.1093/geront/gns198>
 18. Lysack, C., **Leach, C.**, Russo, T., Paulson, D., & Lichtenberg, P. (2011). *Efficacy of a Train-the-Trainer Curriculum for Occupational Therapists' Mental Health Knowledge*. *Gerontologist*, 51(Suppl 2):468. [Abstract] <https://doi.org/10.1093/geront/gns068>
 19. Jankowski, T., Booza, J., & **Leach, C.** (2011). *A comparison of poverty and economic insecurity among older adult singles and couples in Michigan*. *Gerontologist*, 51(Suppl 2):174. [Abstract] <https://doi.org/10.1093/geront/gns068>
 20. Jankowski, T., **Leach, C.** & Booza, J. (2009). *Seniors Count! A community-based participatory research (CBPR) approach to compiling and disseminating data on aging*. *Gerontologist*, 49 (Suppl 2): 506. [Abstract] <https://doi.org/10.1093/geront/gnp148>

Refereed & Invited Presentations

Indicates community expert co-author

1. **Leach, C.**, Sneed, R. & Perry, T. (2023, Nov 8). Benefits and barriers of community engaged research and strategies for strengthening partnership practice. Symposium Chair, Gerontological Society of America Annual Scientific Meeting, Tampa, FL.
2. **Leach, C.** & Moss, K. (2023, Nov 12). Inclusion and integration of community stakeholder perspectives in research: Insight from and for gerontologists. Symposium Chair, Gerontological Society of America Annual Scientific Meeting, Tampa, FL.
3. **Leach, C.** (2023, Nov 8). In their own words: Dynamics that contribute to successful and sustained partnerships in CBPR with older people. Individual symposium paper presentation, Gerontological Society of America Annual Scientific Meeting, Tampa, FL.
4. **Leach, C.**, Gan, D., Brothers, A., Sargent, L. & Dys, S. (2023, Nov 12). The promise and challenges of gerontologists who advance the science of community-engaged research. Individual symposium paper presentation, Gerontological Society of America Annual Scientific Meeting, Tampa, FL.
5. Landrum, T., Koeppel, J., Leonard, N., **Leach, C.** & Kaplowitz, A. (2023, Nov 3). Detroit Environmental Justice in Focus. Panel presentation. Environmental Law Clinicians Conference, University of Detroit Mercy School of Law, Detroit, MI.

6. Cole, K. A., Mitchell, J., Albdour, M. & **Leach, C.** (2023, Nov 2). Ethics & Challenges in Community-Academic Partnerships. [Hybrid Webinar]. Center for Health Equity & Community Knowledge in Urban Populations (CHECK-UP) CEnR Workshops Series. Detroit Premier Academy, Detroit, MI. URL:
7. Londono, H., Stoycheff, E., **Leach, C.**, Hudgins, B., Bahl, R., Lilly, J. & Ramirez, R. (2023, Oct 2). Modeling healthy digital habits for Detroit youth, seniors & families. Panel, *Connect313 Detroit Digital Inclusion Week Conference Symposium*, Detroit, MI.
8. **Leach, C.**, Brothers, A., Sudha, S., Sargent, L., & Slattum, P. (2023, Aug 16). Tenure & promotion strategies for community engaged researchers [Webinar]. Gerontological Society of America (GSA) Community Engaged Research (CEnR) Interest Group. GSA URL: <https://www.youtube.com/watch?v=w2GwiiWZlvo>
9. **Leach, C.**, Perry, T., Villeneuve, E. & Bridgforth, J. R. (2023, Jun 28). Publishing & co-authoring community engaged research [Webinar]. Gerontological Society of America Community Engaged Research Interest Group.
10. **Leach, C.** (2023, Jun 23). Computer connectivity and the digital divide. [Webinar]. *Gracefully Greying*. URL: <https://gracefullygreying.com/News/computer-connectivity-and-the-digital-divide>
11. **Leach, C.**, Marusak, H., Chang, S., Bynum, W., Lilly, J., Stiffler, M. & Dwyer, K. (2023, Jun 21). *Leveraging science for action & advocacy* [Hybrid Webinar]. Center for Health Equity & Community Knowledge in Urban Populations (CHECK-UP) CEnR Workshops Series. URL: <https://www.youtube.com/watch?v=dJiN4uC8Te0>
12. **Leach, C.** (2023, May 16). Understanding the role of communication disparities in late old age: Strategies for connecting with the hardly reached [Webinar]. Michigan Institute for Care Management & Transformation Annual Meeting. URL: https://www.mivideo.it.umich.edu/media/t/1_z2z1dteq
13. **Leach, C.** (2022, May 5). Fostering research and digital inclusion in Detroit. Presentation to the Institute of Gerontology National Steering Committee, Detroit, MI.
14. Thompson, H., **Leach, C.**, Sneed, R., McMillion, C. & Towner, E. (2023, Apr 28). Processes & practices for cultivating meaningful community-academic partnerships: From concept to action. [Hybrid Webinar]. Center for Health Equity & Community Knowledge in Urban Populations (CHECK-UP) CEnR Workshops Series. URL: <https://www.youtube.com/watch?v=n1GVyzcu6is>
15. Slattum, P., **Leach, C.**, Brothers, A., Sargent, L. & Cudjoe, T. (2023, Apr 19). *Securing funding for your community engaged research* [Webinar]. Gerontological Society of America, Grant Chats Series. GSA URL: <https://www.youtube.com/watch?v=Hsw7duhXQuU>
16. Thompson, H., **Leach, C.**, Sneed, R., Harper, F., Runge-Morris, M. & Miranda-Hartsuff, T. (2023, Apr 7). Faculty panel & listening session: Opportunities and challenges of community engaged research. [Webinar]. Center for Health Equity &

- Community Knowledge in Urban Populations (CHECK-UP) CEnR Workshops Series.
URL: <https://www.youtube.com/watch?v=YWDPBgBXSTE>
17. **Leach, C.** (2022, Mar 16). Age-Friendly University designation: What's new with AFU at WSU. Presentation to the Institute of Gerontology Board of Visitors.
 18. Thompson, H. & **Leach, C.** (2022, Mar 11). PCORI Engagement Awards Workshop, Moderator [Webinar]. Accessible via CHECK-UP YouTube URL: <https://www.youtube.com/watch?v=uZpk1tLafjw>
 19. **Leach, C.** & Geary, C. (2022, Nov 6). Opportunities and outcomes of centering older adults in patient-oriented and community-engaged research. Symposium Chair, Gerontological Society of America Annual Conference, Indianapolis, IN.
 20. **Leach, C.** (2022, Nov 6). The exacerbating role of digital exclusion on older Detroiters health and strategies for bridging the divide. [Webinar]. Community-Engaged Research Symposium: Strategies for Strengthening Partnerships, Wayne State University, Detroit, MI. URL: <https://www.youtube.com/watch?v=94WbHm-zSjg>
 21. **Leach, C.**, Chapman, R., Stubblefield, D., & Schroeck, N. (2022, Oct). The role of communication disparities in older African American Detroit residents "*Dying Before Their Time*": Strategies for bending the digital equity arc towards health and justice. Chair, *Connect313 Digital Inclusion Research Symposium*, Detroit, MI.
 22. **Leach, C.** & Jankowski, T. (2022, Nov). Community perspectives on communication disparities in late old age and tactics to connect with the hardly reached. Symposium presentation, Gerontological Society of America Annual Conference, Indianapolis, IN.
 23. Gan, D. & **Leach, C.** (2022, Jul). Participation in Community Engaged Research (CEnR) [Webinar]. Gerontological Society of America CEnR Interest Group.
 24. **Leach, C.** (2022, Jul 12). Community-based participatory research. [Webinar]. Center for Health Equity & Community Knowledge in Urban Populations (CHECK-UP) Foundations Lightning Talks. URL: <https://www.youtube.com/watch?v=rqnsJ6MhUtY>
 25. **Leach, C.**, Gan, D., Morrison, S., Shreeniwas, S., Konkn, J., & Shippee, T. (2022, Jun). Community Engaged Research (CEnR) in low-income contexts [Webinar]. Gerontological Society of America CEnR Interest Group.
 26. Thompson, H., Herrmann, A., **Leach, C.**, & Brown-Miller, V. (2022, Feb). Strategies for engaging communities in research. Half-day workshop, presented at the American Psychosomatic Society Annual Scientific Meeting, *Embracing heterogeneity: Towards a more inclusive, and patient-tailored clinical care*, Long Beach, CA.
 27. **Leach, C.** & Jankowski, T. (2022, Nov). Exploring communication disparities in late old age through the lens of communication infrastructure theory. Poster presentation, Gerontological Society of America Annual Conference, Indianapolis, IN.

28. **Leach, C.** & Trentacosta, C. (2022). Integrating community priorities into a NIEHS P30 center pilot project program. Virtual presentation, Partnerships for Environmental Public Health (PEPH), National Institute of Environmental Health Sciences, invited.
29. Bellemare, K., Rohlman, D., Anderson, K.A., **Leach, C.**, King, L., Gibson-Levy, J., Murphy, D., Cassidy-Bushrow, A.E., Straughen, J.K. (2022). Characteristics of postpartum women and focus groups: Do demographic, infant, or study-related features influence participation? Henry Ford Health System Annual Research Symposium, *New Frontiers in Biomedical Research to Target Disease*, Detroit, MI.
30. **Leach, C.**, Schulz, A., Lawrence, S., Schroeck, N., Sand, S., Bewaji, T., Williams, G., & Fuchs-Young, R. (2021). Enhancing multi-directional communication between decision makers and environmental health researchers: A community-engaged qualitative inquiry. American Public Health Association Annual Meeting, Denver, CO.
31. Schroeck, N. & **Leach, C.** (2021). The exacerbating role of technical and connectivity challenges on Detroiters' health in a pandemic. Detroit Mercy Law Review Annual Symposium, *Pandemic: From Disparity to Equity*, Detroit, MI.
32. **Leach, C.**, Stubblefield, D., Cooper-Sargent, M., Turner-Handy, S., McCloskey, D., Bynum, W., Ali, S., Garcia, R. (2020). Community voices: Detroit, NIEHS Environmental Health Science Core Center Program Annual Meeting: *COVID-19, Racism, and Environmental Justice: Starting the Conversation within the Core Centers*, July. URL: <https://cures.wayne.edu/2020ehscc>
33. **Leach, C.**, Rorai, V. & Lichtenberg, P. (2020). Detroit-driven environmental health communication tools for fostering urban minority engagement. American Public Health Association Annual Meeting, San Francisco, CA.
34. **Leach, C.**, Alhawli, A., Syed, N., Turner-Handy, S., Bailey, S. & Stubblefield, D. (2020). Community expertise on negotiating collaborations and ensuring equity [Webinar]. Panel convener and chair, Wayne State University and Karmanos Cancer Institute Community Engaged Research Symposium, Detroit, MI. URL: <https://youtu.be/3Qc357S3G8A>
35. **Leach, C.** & Novak, J. (2019, Nov). Examining Community-Based Service Disconnects in Late Old Age: Paths for Reach through the Communication Ecology. Gerontological Society of America Annual Conference, Austin, TX.
36. **Leach, C.** (2019). "There needs to be more dialogue between researchers and decision makers regarding environmental justice issues": Communicating Science Best Practices. Panel speaker, Global Health, Justice and the Environment Conference, Wayne State University, Detroit, MI.
37. **Leach, C.**, Schroeck, N., Schulz, A., & Fuchs-Young, R. (2019). Enhancing multi-directional dialogue between environmental health scientists and decision makers. National Webinar Presenter, Partnerships for Environmental Public Health (PEPH), National Institute of Environmental Health Sciences.

38. Aberle, B., **Leach, C.**, Smith, B., Williams, B. & Nnoke, H. (2019). *“There’s so much pollution in Detroit!”*: Nursing student experiences of an environmental health and justice tour. Poster presentation, Global Health, Justice and the Environment Conference, Wayne State University, Detroit, MI.
39. **Leach, C.** & Schroeck, N. (2019). *“There needs to be more dialogue between researchers and decision makers regarding environmental justice issues”*: *Communicating Science Best Practices*. Poster presentation, Global Health, Justice and the Environment Conference, Wayne State University, Detroit, MI.
40. **Braddix, L.**, **Lipscomb, C.**, **Leach, C.**, & Heath, E. (2018). Approaches to Integrating Community Perspectives and Priorities in Research Design. Panel speaker, Community-Engaged Research Symposium: *Building CEnR Networks to Eliminate Disparities in Cancer and Cardiovascular Disease*, Wayne State University & Karmanos Cancer Institute, Detroit, MI.
41. **Leach, C.** & Jankowski, T. (2017, Mar). Communicating with Older Adults: Medium, Mode, and Message. Workshop, American Society on Aging Annual Conference, Chicago, IL.
42. **Leach, C.** & Jankowski, T. (2017, Aug). Communicating with Older Adults: Medium, Mode, and Message. Invited National Web Workshop for the American Society on Aging: Lifetime Education and Renewal Network (LEARN) [Webinar]. URL: <https://www.asaging.org/web-seminars/communicating-older-adults-medium-mode-and-message>
43. Lichtenberg, P., **Leach, C.**, Russo, T., Paulson, D. & Lysack, C. (2012, Nov). Enhancing Mental Health Treatment for Older Adults in Medical Rehabilitation: A Randomized Clinical Trial. Presentation at the annual meeting of the Gerontological Society of America. San Diego, CA.
44. Lysack, C., **Leach, C.**, Russo, T., Paulson, D., Lichtenberg, P. (2011, Nov). Efficacy of a Train-the-Trainer Curriculum for Occupational Therapists’ Mental Health Knowledge. Poster presented at the annual meeting of the Gerontological Society of America, Boston, Massachusetts.
45. Jankowski, T., Booza, J., & **Leach, C.** (2011, Nov). A Comparison of Poverty and Economic Insecurity Among Older Adult Singles and Couples in Michigan. Poster presented at the annual meeting of the Gerontological Society of America, Boston, Massachusetts.
46. Jankowski, T., **Leach, C.**, & Booza, J. (2009, Nov). Seniors Count! A CBPR Approach to Compiling and Disseminating Data on Aging. Poster presented at the annual meeting of the Gerontological Society of America, Atlanta, Georgia.

Commissioned and Invited Publications, Reports & White Papers

1. **Leach, C.**, Jankowski, T., Deep, C. & Chapman, R. (2023). Age-Friendly University Annual Report. Accessible @ <https://diversity.wayne.edu/campus-resources/age-friendly>

2. Jankowski, T. & **Leach, C.** (2020). UP-SCAN Evaluation Summary. Report for Elder Law of Michigan., 113 pgs.
3. Jankowski, T. & **Leach, C.** (2015). Monroe County Older Adult Needs Assessment Findings. Report to the Monroe County Commission on Aging, 270 pgs.
4. Jankowski, T. & **Leach, C.** (2013). Calhoun County Older Adult Needs Assessment Findings. Report to the Calhoun County Offices of Senior Services, 168 pgs.
5. **Leach, C.**, Jankowski, T. & Russo, T. (2012). Huntington Woods Older Adult Needs Assessment: Report to the Huntington Woods City Management Office, 26 pgs.
6. Jankowski, T., Booza, J., & **Leach, C.** (2011). Invisible poverty: New measure unveils financial hardship in Michigan's older adult population. *Seniors Count! Working Paper Series*, No. 3, 19 pgs.
7. Jankowski, T., Booza, J., & **Leach, C.** (2011). Gender Disparities of Older Adults in Southeast Michigan. *Seniors Count! Working Paper Series*, No. 2, 12 pgs.
8. Booza, J., Jankowski, T. B., & **Leach, C.** (2010). An Income Profile of Older Adult Householders in Southeast Michigan. *Seniors Count! Working Paper Series*, No. 1, 23 pgs.
9. Jankowski, T., **Leach, C.** & Graham, P. (2010). A Needs Assessment of Older Adults in the Tri-County Area. Report to the United Way of Southeast Michigan. Commissioned by the Senior Regional Collaborative publication, 91 pgs.
10. **Leach, C.** & Carr, J. (2010). Huntington Woods City Services Priority Survey Findings. Report to the Huntington Woods City Management Office, 28 pgs.
11. Thompson, L., Gleason-Comstock, J., Scott, W., Streater, A., **Leach, C.**, Lum, M., & Crawford, R. (2008). Program Evaluation Report for the Michigan Special Education Mediation Program, 53 pgs.
12. Thompson, L., Gleason-Comstock, J., Scott, W., Streater, A., **Leach, C.**, Lum, M., & Crawford, R. (2008). Evaluation of the Training and Technical Assistance for Family Involvement Grant. Composed for the Michigan Alliance for Families (MAF), 156 pgs.
13. Thompson, L., Gleason-Comstock, J., Scott, W., Streater, A., **Leach, C.**, & Crawford, R. (2008). Evaluation of the Knowledge Application and Technical Assistance Project, 27 pgs.

Public & Community-Engaged Scholarship

1. **Leach, C.** (2022, Sep). Understanding why older adults are hard-to-reach in late old age: A community-driven and participatory investigation of the senior-service provider communication divide. Institutional Review Board Member Symposium, invited presentation, Wayne State University, Detroit, MI.

2. **Leach, C.** (2022, Jul). Introduction to Community-Based Participatory Research. Recorded presentation for CHECK-UP Steering Committee, viewable on CHECK-UP YouTube channel URL: <https://www.youtube.com/watch?v=rqnsJ6MhUtY&t=8s>
3. Miller, C., Thompson, L., Bradford, L., Blessman, J., **Leach, C.**, Chapman, R., Turner-Handy, S., Cooper-Sargent, M., & Peake, V. (2022, Apr). Detroit under water: Understanding our urban infrastructure, the health impacts of flooding, and green solutions. Participatory planning for translational and educational tools, Center for Urban Responses to Environmental Stressors, Wayne State University, Detroit, MI.
4. Schroeck, N., Turner-Handy, S., & **Leach, C.** (2021, Dec). Advocating for Environmental Health in Michigan: With a Focus on Detroit [Webinar]. Workshop provided to Michigan Clinicians for Climate Action, December.
5. Dailey, R., Jordan, P., Trentacosta, C., **Leach, C.**, McCautry, N., Milberger, S., Thompson, H., R., Perry, T., Rorai, V. & Zimmerman, R. (2021, Apr). Community Research Town Hall, Wayne State University Office of the Vice President.
6. **Leach, C.** (2020, Feb). New research building on the 2015 Monroe County older adults needs assessment: Addressing communication barriers to community-based services use. Monroe County Commission on Aging.
7. **Leach, C.** (2019). Communicating and disseminating science resource webpage and tools. Center for Urban Responses to Environmental Stressors, Wayne State University. URL: <https://cures.wayne.edu/community-engagement>
8. Schroeck, N., **Leach, C.** & Hansen, J. (2019). Advocating for a Healthy Environment: Guidelines for engaging policy makers. Center for Urban Responses to Environmental Stressors, Wayne State University. URL: https://cures.wayne.edu/outreach/5_15_19_cures_lobby_doc_.pdf
9. **Leach, C.**, Schulz, A., Fuchs-Young, R. & Schroeck, N. (2019). Best Practices: Sharing Environmental Health Research. Center for Urban Responses to Environmental Stressors, Wayne State University. Available @ https://cures.wayne.edu/outreach/best_pract_comm_eh_sci_dec_mkrs_final_8_13_19.pdf; references @ https://cures.wayne.edu/pdf/best_practices_reference_list_2019_5_2.pdf
10. **Leach, C.** (2019, Aug). Closing the science-society gap: Communicating environmental health research for public good. Good Morning Detroit, Institute of Environmental Health Sciences.
11. **Leach, C.** (2018, Oct). Interacting with elders: Differences in communication experiences and how to bridge the gap. Romeo District Public Library Staff Professional Development & Training.
12. **Leach, C.** (2017, Sep). Health communication 101: Skills for improving interactions with older patients. Continuing Education Program for Healthcare Professionals, Institute of Gerontology Education and Outreach, Wayne State University.

13. **Leach, C.** (2017, May). Communicating with older adults: Medium, mode, and message. Monroe County Service Providers, Frenchtown Senior Center.
14. Jankowski, T. & **Leach, C.** (2015, Nov). Monroe County Older Adult Needs Assessment Findings. Annual Meeting of the Monroe County Human Services Collaborative Network.
15. Pechta, L., Sellnow-Richmond, D. & **Leach, C.** (2015, Sep). *Exploring careers in research outside the academy*. Communication Department Colloquium Panel, WSU, Detroit, MI.

Press & Media

1. Sedlacek, O. (2023, Nov). *Older Detroiters Face Barriers to Telehealth*. Featured in Hour Detroit Magazine, "Michigan Findings and Facts for November 2023", accessible @ <https://www.hourdetroit.com/community/michigan-findings-and-facts-for-november-2023/>
2. *Detroit's Digital Exclusion Worsens COVID-19 Impact on Older African Americans*. (2023, Aug). Office of the Vice President for Research, Wayne State University press release accessible @ <https://research.wayne.edu/news/detroits-digital-exclusion-worsens-covid-19-impact-on-older-african-americans-53895>
3. *Wayne State University Receives Award to Bridge Detroit's Resident-Research Divide*. (2023, Jun). Featured in Today@Wayne; accessible @ <https://today.wayne.edu/news/2023/06/20/wayne-state-university-receives-award-to-bridge-detroits-resident-research-divide-53625>
4. *Bridging the Divide: Fostering Partnerships for Urban African-American Aging Research*. (2023, Apr). Engagement in Research, Awarded by the Patient Centered Outcomes Research Institute (PCORI). Project summary accessible @ <https://www.pcori.org/research-results/2022/bridging-divide-fostering-partnerships-urban-african-american-aging-research>
5. *Bridging the Resident-Research Divide in Detroit*. (2023, Mar). Transitions Newsletter, Institute of Gerontology, Wayne State University, accessible @ <https://iog.wayne.edu/iog.wayne.edu/in-the-news/bridging%20the%20resident-research%20divide%20in%20detroit>
6. *New Award Will Help to Advance Digital Equity in Detroit*. (2023, Feb). CHECK-UP press release accessible @ <https://check-up.wayne.edu/news/check-ups-carrie-leach-awarded-pcori-grant-50583>
7. *At the Crossroads with Carrie Leach*. (2022). National Communication Association, Environmental Communication Digest spring newsletter, Issue 8. URL: <https://sites.google.com/view/ecdnca/the-ecdigest/issue-8-spring-2022>
8. *Listening, Learning & Doing Better: Insights from the IOGs Newest Assistant Professor*. (2021). Annual Report, Institute of Gerontology. URL: <https://iog.wayne.edu/planningforunplanned>

9. National Institute of Environmental Health Sciences (NIEHS) Spotlight. (2021, Oct) *New Paths for Community Connection in Detroit @* <https://www.niehs.nih.gov/research/supported/centers/core/spotlight/connect-detroit/index.cfm>
10. Leach, C. (2020). *Postdocs rising to the pandemic challenge: With national redirection of community-centered research capacity*. Contributor to the Society of Toxicology Post-doctoral newsletter: The Post-y, summer. URL: <https://www.toxicology.org/groups/postdoc/docs/Summer-2020-Post-y.pdf>
11. National Institute of Environmental Health Sciences (NIEHS) Spotlight. (2018). *New Video Raises Awareness of Detroit's Environmental Health Issues*. Accessible @ <https://www.niehs.nih.gov/research/supported/centers/core/spotlight/%20detroit-health/index.cfm>
12. Fritz, B. (2016). Building "Snowballs" to Improve Environmental Health. Wayne State University Government and Community Affairs Newsletter accessible @ http://govaffairs.wayne.edu/news.php?id=20614&utm_source=link&utm_medium=email-57c723a0bd64b&utm_campaign=Wayne+State+University+-+The+Advocate&utm_content
13. Erb, R. (2014). Understanding the Science behind Stress Helps You Cope. Featured doctoral student experience of stress, Detroit Free Press accessible @ <http://www.freep.com/story/news/health/2014/11/23/science-stress-holidays/19352885/>
14. **Leach, C.** (2012). MacNeill-Lichtenberg Decision Tree case study. *HCR Manor Care: Rehab Quarterly Update*, p.7.
15. **Leach, C.** (2009). Casting a Wider Net: How to Gain a Competitive Edge. WSU Political Science Department Newsletter.

Communications & Social Media

- 2023 **Leach, C.** Digital Inclusion & Technology Resources for Older People. Wayne State University webpage created, edited, and updated. URL: <https://iog.wayne.edu/tech>
- 2022 **Leach, C.** CHECK-UP YouTube channel. Created channel, edit content and videos. URL: <https://www.youtube.com/@check-up7192/videos>
- 2019 **Leach C.** Communicating and disseminating science. Wayne State University CURES Community Engagement Core. URL: <https://cures.wayne.edu/outreach/communicatingscience>
- 2014 **Leach, C.** *CURES: Center for Urban Responses to Environmental Stressors* Facebook page. Established page, managed content and engagement. URL: <https://www.facebook.com/iog.wayne>
- 2014 **Leach, C.** *CURES at Wayne State University* You Tube Channel. Created channel, populated with videos; edited material utilizing Camtasia software, Animoto video software, manage site, and educational video production. URL: <https://www.youtube.com/channel/UCjamLjy0sOUGl2B0Dt2vyRQ>
- 2012 **Leach, C. & Russo, T.** Established *Institute of Gerontology Wikipedia* page. URL: http://en.wikipedia.org/wiki/The_Institute_of_Gerontology

- 2012 **Leach, C.** *Institute of Gerontology at Wayne State University* Facebook page. Established page, manage content, community engagement and communications. URL: <https://www.facebook.com/iog.wayne>
- 2012 **Leach, C.** *The Aging Network*, LinkedIn group page. Created group, manage content with relevant aging information, community engagement and communications. URL: <http://www.linkedin.com/groups/Institute-Gerontology-Wayne-State-University-4351274>
- 2012 **Leach, C.** @IOGWSU Twitter. Established account, manage content with relevant aging information, community engagement and communications @ <https://twitter.com/IOGWSU>
- 2012 **Leach, C.** IOGMPSI You Tube Channel(s). Established and populated with relevant videos for IOG. Edited material utilizing Camtasia software, Animoto video software, manage site. URL: <http://www.youtube.com/user/IOGMPSI>

INSTRUCTION

Teaching

Instructor, PH 4400: Methodological Approaches to Public Health, fall 2019
 Co-Instructor, COM 6180: Health Communication, fall 2014

Invited Lectures

- 2023 SW 7995: Interdisciplinary Introduction to Gerontology. *Communication & Aging*
- 2022 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, December, co-lecture with CURES Community Advisory Board member Sandra Turner-Handy
- 2022 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, April
- 2021 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, December
- 2021 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, January
- 2020 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, December
- 2020 FPH 7420: Principles of Environmental Health. *Community Partnerships for Improved Public Health*, January
- 2019 SW 7995: Interdisciplinary Introduction to Gerontology. *Communication in Later Life*, December
- 2019 FPH 7320: Social Basis of Health Care. *Environmental Health Communication and Engagement with Detroit*, November
- 2018 SW 7995: Interdisciplinary Introduction to Gerontology. *Communication in Later Life*, December
- 2018 PH 5100: Public Health Capstone. *Ecologically Sensitized Communication Approaches for Good Health: Urban Lifespan and Rural Aged*, June
- 2017 SW 7995: Interdisciplinary Introduction to Gerontology. *Communication in Later Life*, December
- 2017 PH 4100: Practicum, Juxtaposing ecologically sensitized communication approaches: Urban lifespan and rural aged, June

- 2016 COM 2000: Introduction to Communication Studies. *Community, Culture, and Communication*, October
- 2014 COM 6180: Health Communication. *End of Life Issues*, October
- 2014 COM 6180: Health Communication. *Social Support in Later Life*, September

Mentoring, Advising and Supervision

- Thanet Sinchauthong, PhD Nursing Research Residency, 2023-
- Mikayla Harrison, Research Assistant, 2023-
- Rochelle Chapman, Community Engagement Specialist, 2020-
- Zainab Ahmed, MPH Practicum, 2023
- Saurav Singh, Research Assistant, 2021
- Kenneth Cochran, BPH Practicum, 2019
- Mazan Zamzam, BPH Practicum, 2018
- Susan Lawrence, Research Assistant, 2017
- Julian Esaw, Videographer Intern, 2017-2018
- Elise Hammersberg, Research Assistant, 2016-2019
- Drew Bartosik, Research Technician, 2016-2019
- Robin Paul, Research Technician, 2016-2019
- Tangelique Reeves, Grow Detroit's Young Talent Fellow, 2016
- Brian Smith, Engagement Specialist, 2015-2019
- Cheryl Seasock, Research Technician, 2012-2014
- Sonali Marthur, MBA student mentor, 2012
- Theresa Russo, Research Technician, 2011-2014
- Parker Burgess, MBA student mentor, 2011
- Jennifer Wightman, MBA student mentor, 2010
- Katherine Dover, MBA student mentor, 2010

Membership and Service

Gerontological Society of America

- 2011- Member
- 2023 Convener, Community Engaged Research (CEnR) Interest Group
- 2022- Co-Convener, Community Engaged Research (CEnR) Interest Group
- 2016 Peer Reviewer, 21st World Congress of Gerontology and Geriatrics

National Communication Association

- 2014- Member
- 2022 Peer Reviewer, Annual Conference, Applied Communication Division
- 2017 Peer Reviewer, Annual Conference, Health Communication Division
- 2017 Peer Reviewer, Annual Conference, Applied Communication Division
- 2016 Peer Reviewer, Annual Conference, Health Communication Division
- 2015 Student Reviewer, Annual Conference

American Society on Aging

- 2015- Member

American Public Health Association

- 2018- Member
- 2020 Peer Reviewer, Annual Conference, Aging and Public Health Section
- 2020 Student Scholarship Application Reviewer for APHA 2020 Annual Meeting

Southern Gerontological Society

2018- Member

2019 Invited Peer Reviewer, *Journal of Applied Gerontology*

2018 Invited Peer Reviewer, *Journal of Applied Gerontology*

Michigan Public Health Association

2021- Member

Academic Service

- 2024 Steering Committee Member, Measurement Matters: Refining and Validating a PCOR Engagement Measure. PCORI Science of Engagement Award. URL: <https://www.collectiveinsightllc.com/measurement-matters-project>
- 2024 Planning Committee Member, WSU School of Public Health Degrees, Curriculum, Departments & Staffing
- 2023 Pilot project reviewer, Center for Integrative Environmental Health Sciences, University of Louisville NIEHS Environmental Health Sciences Core Center (EHSCC)
- 2023 Advisor, Oregon State University NIEHS EHSCC. *Towards understanding scientist and public perceptions around the use and dissemination of results from public use datasets*. NIH Administrative Supplement for Research and Capacity Building Efforts Related to Bioethical Issues Award NOT-OD-23-018
- 2023 Research Advisory Council, Michigan Developmental Disabilities Institute
- 2023 Member, Health Disparities & Resilience Research Interest Group, CURES
- 2023 Member, LGBTQ Research Network, CHECK-UP
- 2023 Planning Committee, NIEHS Environmental Health Science Core Center Program Annual Meeting
- 2023 Co-Chair, Age-Friendly University Steering Committee
- 2023 Faculty Advisor, Science Policy Network-Detroit
- 2023 Internal review and recharter representative, Merrill Palmer Skillman Institute
- 2022 Co-Director, Community-Engaged Research Symposium: Strengthening Community-Academic Research Relationships. *Program 1: LGBTQ Health Equity*, September 21. Program and videos @ <https://check-up.wayne.edu/lgbtq-health-symposium>
- 2022 Co-Director, Community-Engaged Research Symposium: Strengthening Community-Academic Research Relationships. *Program 2: Black Health & Racial Equity*, October 25-27. Program and videos @ <https://check-up.wayne.edu/black-health-and-racial-equity-symposium>
- 2022 Co-Director, Community-Engaged Research Symposium: Strengthening Community-Academic Research Relationships. *Program 3: Middle Eastern, North African, Refugee & Immigrant Health Equity*, November 1-2. Program and videos @ <https://check-up.wayne.edu/menari-health-symposium>
- 2022 Co-Chair, Age-Friendly University Steering Committee
- 2022 Community Outreach Advisor, WSU & KCI Health Sciences Center Development & Facilities Planning
- 2022 Faculty Advisor, Science Policy Network-Detroit
- 2022 External Advisory Board planning, Institute of Gerontology
- 2022 WSU President's Detroit Health Equity Summit: Community Outreach & Engagement Working Group
- 2022 Coach, Heart Walk Team on behalf of the Institute of Gerontology

- 2021 Co-Chair, Age-Friendly University Working Group
- 2021 Faculty Advisor, Science Policy Network-Detroit
- 2021 Coach, Heart Walk Team on behalf of the Institute of Gerontology
- 2020 Co-Director, Community-Engaged Research Symposium. *COVID-19, Community Engagement, and Research*, Wayne State University, archived @ <https://cures.wayne.edu/communityengagedresearchsymposium2020>
- 2020 Co-Leader, NIEHS Environmental Health Science Core Center Program Annual Meeting: *COVID-19, Racism, and Environmental Justice: Starting the Conversation within the Core Centers*, July. Archived @ <https://cures.wayne.edu/2020ehscc>
- 2019 Student Writing Tutor, Communication Department, WSU, winter term
- 2018 Public Health Undergraduate Program, WSU, Judge for poster presentations, PH 5100 Capstone, July
- 2018 Advisory Committee Member, Patient-Centered Outcomes Research Institute (PCORI), *Novel Statistical Methods for Comparative Effectiveness Research in the Framework of Cluster Randomized Intervention Trials*
- 2018 Public Health Undergraduate Program Initiative, Global Health Project Student Advisor, Ben Carson High School, winter semester
- 2017 Patient-Centered Outcomes Research Institute (PCORI), Advisory Committee Member, *Developing Bayesian Methods for Non-Inferiority Trials in Comparative Effectiveness Research*

Community Engagement & Service

- 2023 Member, Detroit Community Health Equity Alliance (D-CHEA) Coalition
- 2023 Member, Detroit Environmental Agenda Coalition
- 2022 Co-Director: Community-Engaged Research (CEnR) Symposium: *Strategies for Strengthening Partnerships*, Wayne State University, all programs @ <https://check-up.wayne.edu/cenr-symposia-series>
- 2022 Co-chair, Middle Eastern, North African, Refugee & Immigrant Health Equity Symposium Steering Committee, Wayne State University
- 2022 Member, Detroit Environmental Agenda Coalition
- 2021 Career Advisory Board member, Benjamin Carson High School of Science and Medicine
- 2021 Member, Detroit Environmental Agenda Coalition
- 2020 Co-Director: Community-Engaged Research (CEnR) Symposium: *The Impact of COVID-19, Now and For the Future*, Wayne State University, January – June
- 2020 Leach, C. Workshop Facilitator: *Methods for Understanding Refugee Needs at Freedom House Detroit and Strategies for Developing a Tailored Health Communication Strategy*; workshop and consultation provided to Global Health Alliance, WSU Medical School, September
- 2020 Member, Detroit Environmental Agenda Coalition
- 2020 Career Advisory Board member, Benjamin Carson High School of Science and Medicine
- 2019 Steering Committee Member: Community-Engaged Research (CEnR) Symposium: *Implementing Strategies for Inclusive Research*, Wayne State University, January – June
- 2019 Member, Detroit Environmental Agenda Coalition
- 2019 Career Advisory Board member, Benjamin Carson High School of Science and Medicine

- 2018 Focus Group Facilitator, *Community Health Forum Listening Session*, Healthy Dearbon, invited by H. Dillaway, Sociology, WSU and Sara Gleicher, Beaumont, September
- 2018 Member, Detroit Environmental Agenda Coalition
- 2018 Career Advisory Board member, Benjamin Carson High School of Science and Medicine

My NIH Bibliography @
<https://www.ncbi.nlm.nih.gov/myncbi/carrie.leach.1/bibliography/public/>