

# Curriculum Vitae

## Amy A. Schultz

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1300 University Ave (# 1082)

Madison, WI, 53706

## EDUCATION

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- 2019 **Ph.D. – Epidemiology**  
School of Medicine and Public Health  
The University of Wisconsin, *Madison, WI*  
Dissertation: Residential proximity to concentrated animal feeding operations and respiratory and allergic health in rural Wisconsin
- Concentration: Environmental health
  - Minor: Public policy and management
- 2015 **M.S. – Population Health Science**  
School of Medicine and Public Health  
The University of Wisconsin, *Madison, WI*  
Thesis: Ambient air pollution and allergic disease: results from the Survey of the Health of Wisconsin 2008-2013
- 2008 **B.S. – Geography & Geographic Information Science (GIS)**  
School of Earth, Society & Environment  
The University of Illinois, *Champaign-Urbana, IL*  
Minor: Environmental Studies

## POSITIONS

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- 2024- **Scientist on Aging**, Scientist III, *University of Wisconsin-Madison*  
Population Health Sciences Department & Center for Demography of Health and Aging  
*Madison, WI*
- 2023- **Epidemiology Senior Data Scientist**, Data Scientist III, *University of Wisconsin-Madison*  
School of Medicine and Public Health  
Office of Informatics and Information Technology *Madison, WI*
- 2020-2023 **Associate Director**, Scientist III, *University of Wisconsin-Madison*  
Population Health Sciences Department  
Survey of the Health of Wisconsin *Madison, WI*
- 2019-2020 **Assistant Director for Environment and Aging Research**, Scientist II, *University of Wisconsin-Madison*  
Population Health Sciences Department  
Survey of the Health of Wisconsin *Madison, WI*
- 2017-2019 **Research Studies Manager**, Assistant Researcher, *University of Wisconsin-Madison*  
Population Health Sciences Department  
Survey of the Health of Wisconsin *Madison, WI*

- 2016-2017 **Graduate Research Intern**, Wisconsin Department of Health Services, *Madison, WI*
- 2013-2016 **Graduate Project Assistant**, *University of Wisconsin-Madison*  
Population Health Sciences Department  
Survey of the Health of Wisconsin *Madison, WI*
- 2013 **Teach for America Corps Member Advisor**, Boy's Latin, *Philadelphia, PA*
- 2011-2013 **High School Mathematics Teacher**, Barton-Lexa School District, *Lexa, AR*
- 2008-2010 **GIS support & Recreation Coordinator**, Bureau of Land Management, *Salem, OR*  
U.S. Department of Interior
- 2007-2008 **GIS Technician**, Illinois State Geological Survey, *Champaign, IL*
- 2006-2008 **Undergraduate Research Assistant**, University of Illinois, *Champaign, IL*  
Geography Department (Advisor: Thomas Frank)
- 2007 **Apprentice**, Bureau of Land Management, *Welches, OR*  
Student Conservation Association Internship

## GRANTS

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### Current

#### **Biomonitoring of pesticides and metals among rural residents: longitudinal analysis of body burden by neighboring agricultural activity**

Funding Source: *pending* (CDC-RFA-EH-24-0043), *CDC / EPHT*

Total Direct Costs: \$837,500

Period: 9/2024-9/2027

PI: Bedno S

Role: **Co-Investigator**

Effort: 10%

#### **SHOW-Forward: A pathway for enhancing participant diversity, enriching data, and improving access to a unique environmental epidemiology cohort**

Funding source: U24 ES036005, *NIH / NIEHS*

Total Direct Costs: \$1,910,875

Period: 7/1/24-6/30/25

PI: Mathew J

Role: **Co-Investigator**

Effort: 15%

#### **Research on Epigenetics, Weathering, Aging, & Residential Disadvantage (REWARD) Study**

Funding Source: R01 AG061080, *NIH / NIA*

Total Direct Costs: \$2,069,154

Period: 9/2019-5/2025

PI: Engelman M

Role: **Scientist**

Effort: 20%

**The relationship between heavy metal toxicants, the microbiome, and pet ownership: a pilot study**

Funding Source: ICTR-UWMF RD 17, *UW-Madison ICTR Translational Basic & Clinical Research Pilot*

Total Direct Costs: \$50,000

Period: 9/1/23-8/31/24

MPI: Schultz A & Mowat F

Role: **Co-Principal Investigator**

Effort: 5%

**Opening Doors for Advancing Research on Aging (ODARA).** Feasibility and validity of

neurodegenerative biomarkers from self-administered blood collection among underrepresented populations

Funding Source: *UW-Madison Center for Demography Health and Aging (CDHA), NIH / NIA*

Total Direct Costs: \$48,024

Period: 10/1/24-9/31/25

PI: Schultz A

Role: **Principal Investigator**

Effort: 5%

**Prior**

**UW-Carbhone Cancer Center: SHOW Shared Resource Service**

Funding Source: P30 CA014520, *NIH / NCI*

Total Direct Costs: \$266,756

Period: 7/2023-7/2024

PI: Bailey H

Role: **Facility Manager**

Effort: 25%

**Survey of the Health of Wisconsin (SHOW)**

Funding Source: WPP5139, *Wisconsin Partnership Foundation*

Total Direct Costs: \$899,556

Period: 10/2022-9/2023

MPI: Mathew J & Schultz A

Role: **Co-Principal Investigator**

Effort: 60%

**Taking the Next Step (TaNS) II: Evaluation of the effectiveness of community-informed private-well water resources at increasing knowledge and behavior**

Funding Source: ICTR Pipeline Supplemental Funds (AAL4297), *University of Wisconsin Institute for Clinical and Translational Research – Community Academic research Partnerships (ICTR-CAP)*

Total Direct Costs: \$15,000

Period: 01/2023-09/2023

PI: Schultz A

Role: **Principal Investigator**

Effort: 0%

**UW-Carbhone Cancer Center: SHOW Shared Resource Service**

Funding Source: P30 CA014520, *NIH / NCI*

Total Direct Costs: \$187,597

Period: 7/2022-7/2023

PI: Bailey H

Role: **Facility Manager**

Effort: 25%

**Survey of the Health of Wisconsin (SHOW)**

Funding Source: WPP5139, *Wisconsin Partnership Foundation*

Total Direct Costs: \$3,512,790

Period: 10/2019-9/2022

MPI: Peppard P & Malecki K

Role: **Scientist**

Effort: 60%

**UW-Carbone Cancer Center: SHOW Shared Resource Service**

Funding Source: P30 CA014520, *NIH / NCI*

Total Direct Costs: \$165,599

Period: 7/2021-7/2022

PI: Bailey H

Role: **Facility Manager**

Effort: 15%

**Taking the Next Step (TaNS): Promoting safe private well water using community-based research**

Funding Source: ICTR Pipeline Supplemental Funds, *University of Wisconsin Institute for Clinical and Translational Research – Community Academic research Partnerships (ICTR-CAP)*

Total Direct Costs: \$33,620

Period: 01/2021-01/2022

PI: Schultz A

Role: **Principal Investigator**

Effort: 0%

**African Americans Fighting Alzheimer's in Midlife (AA-FAIM)**

Funding Source: R01 AG054059, *NIH / NIA Supplement*

Total Direct Costs: \$111,086

Period: 9/2020-11/2022

PI: Gleason C

Role: **Scientist**

Effort: 10%

**RESEARCH PUBLICATIONS**

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underlined indicates Dr. Schultz supervised/mentored academic staff /graduate student

★ indicates Dr. Schultz as corresponding author

**Peer-Reviewed**

2024

1. **Schultz AA★**, Nelson-Bakkum E, Nikodemova M, Luongo S, Barnet JH, Walsh MC, Bersch A, Sethi A, Peppard P, Cadmus-Bertram L, Engelman CD, Lubsen J, Jackson T, Malecki KMC. (2024). Participant attrition from statewide, population-based Survey of the Health of Wisconsin into the longitudinal SHOW COVID-19 cohort. *Annals of Epidemiology*. DOI: 10.1016/j.annepidem.2024.04.001
2. Pomazal R, Malecki KC, Stanton N, Shelton B, Lange M, Irving R, Meiman J, Remucal C, Cochran, A, **Schultz AA★**. (2024). Determinants of Per- and Polyfluoroalkyl Substances (PFAS) Exposure among Wisconsin Residents. *Environmental Research*. DOI: 10.1016/j.envres.2024.119131
3. Clark J, Engleman M, **Schultz AA**, Bersch A, Malecki KCM. (2024). Sense of neighborhood belonging and health: geographic, racial, and socioeconomic variation in Wisconsin. *Frontiers in Public Health*. 12:1376672. DOI: 10.3389/fpubh.2024.1376672

4. Kamis CK, Xu W, Clark J, **Schultz AA**, Malecki KCM, Engleman M. (2024). Linking Sequences of Exposure to Residential (Dis)Advantage, Individual Socioeconomic Status, and Health. *Health and Place*. 88:103262. DOI: 10.1016/j.healthplace.2024.103262
5. Xu W, Kamis C, Agnew M, **Schultz A**, Salas S, Malecki K, & Engelman M. (2024). The health implications of cumulative exposure to contextual (dis)advantage: Methodological and substantive advances from a unique data linkage. *American Journal of Epidemiology*. kwae183. DOI: 10.1093/aje/kwae183
6. Park E, Nelson-Bakkum, ER, **Schultz AA**, Dillard, LK. (2024). Self-reported hearing loss and health during a pandemic: Findings from a cross-sectional analysis using a 2021 household survey. *Disability Health Journal*. 2024 Sep 6:101706. DOI: 10.1016/j.dhjo.2024.101706.
7. Xu W, Engelman M, Malecki K, Kamis C, **Schultz A**, Agnew M, Salas S. Xu et al. Respond to "Improving spatial exposure data for everyone: lifecourse social context and ascertaining residential history". *American Journal of Epidemiology*. 2024 Sep 13:kwae243. DOI: 10.1093/aje/kwae243.
8. Warner KJ, **Schultz AA**, Barnet JH, Brown HW. (2024). Prevalence and predictors of urinary incontinence and care seeking among Wisconsin women. *Urogynecology*. *Accepted, In Press*.
9. **Schultz AA\***, Pomazal R, Van Aartzen A, Frobom K, Bizot P, Rodriguez A, Zahner S. (2024). Evaluating the effectiveness of community-informed resource dissemination at increasing knowledge and testing rates among private well water owners. *Environmental Management*. *Under peer-review*.
10. Walter Schmidt CW, Agnew M, Malecki KCM, Gangnon R, **Schultz A**, Peppard PE, Cadmus-Bertram L. (2024). Physical Activity and Mental Health in Patients with Multimorbidity. *Mental Health and Physical Activity*. *Under peer-review*.

2023

11. **Schultz AA\***, Stanton N, Shelton B, Pomazal R, Lange M, Irving R, Meiman J, Malecki KC. (2023). Biomonitoring of perfluoroalkyl and polyfluoroalkyl substances (PFAS) from the Survey of the Health of Wisconsin (SHOW) 2014–2016 and comparison with the National Health and Nutrition Examination Survey (NHANES). *J Expo Sci Environ Epidemiol*. DOI: 10.1038/s41370-023-00593-3
12. Gordon BS, Malecki KCM, Camponeschi J, LeCaire TJ, Creswell PD, **Schultz, AA\***. (2023). Understanding Carbon Monoxide Detector Use, Awareness, and Risk in Wisconsin. *Journal of Community Health*. 2023 Jun 7. DOI: 10.1007/s10900-023-01235-3
13. Pomazal R, Malecki KMC, McCulley L, Stafford N, Schowalter M, **Schultz A\***. (2023). Changes in Alcohol Consumption during the COVID-19 Pandemic: Evidence from Wisconsin. *Int J Environ Res Public Health*. 20(7):5301. DOI: 10.3390/ijerph20075301
14. Dillard LK, Nelson-Bakkum ER, Walsh MC, **Schultz, A**. (2023). Self-reported hearing loss is associated with poorer perceived health care access, timeliness, satisfaction, and quality: Findings from the Survey of the Health of Wisconsin. *Disability and Health Journal*, 16(1), 101394. DOI: 10.1016/j.dhjo.2022.101394
15. Dillard LK, Nelson-Bakkum ER, Ouayogode MH, **Schultz, AA**. (2023). Self-reported hearing loss is associated with poorer health care access, delays, and communication with providers during the COVID-19 pandemic: Findings from the Survey of the Health of Wisconsin COVID-19 Community Impact Survey. *America Journal of Audiology*. Sep 6:1-11. DOI: 10.1044/2023\_AJA-22-00223
16. Dillard LK, Nelson-Bakkum E, **Schultz A**, Merten N, Malecki K. (2023). Associations of Dietary Intake with Self-Reported Hearing Loss: Findings from the Survey of the Health of Wisconsin. *Journal of Speech, Language, and Hearing Research*. Jun 1:1-2. DOI: 10.1044/2023\_JSLHR-22-00473

17. Holzhausen, EA, Peppard P, Sethi AK, Safar N, Malecki KC, **Schultz AA**, Deblois, C.L., Hagen, EW (2023). Associations of gut microbiome richness and diversity with objective and subjective sleep measures in a population sample. *SLEEPJ*, DOI: 10.1093/sleep/zsad300
18. Xu W, Agnew M, Kamis C, **Schultz A**, Salas S, Malecki K, & Engelman M. (2023). Constructing Residential Histories in a General Population-Based Representative Sample. *American Journal of Epidemiology*, kwad188. DOI: 10.1093/aje/kwad188
19. Merten N, **Schultz AA**, Walsh MC, van Landingham SW, Peppard PE, Ryff CDS, Malecki KC. (2023). Psychological distress and well-being among sensory impaired individuals during COVID-19 lockdown measures. *Ann Epidemiol.* 79:19-23. DOI: 10.1016/j.annepidem.2023.01.002.

2022

20. Dillard, LK, Walsh, MC, Merten N, Cruickshanks KJ, & **Schultz, A**. (2022). Prevalence of Self-Reported Hearing Loss and Associated Risk Factors: Findings from the Survey of the Health of Wisconsin. *Journal of Speech, Language, and Hearing Research*, 1-13. DOI: 10.1044/2022\_JSLHR-21-00580
21. Malecki K, Nikodemova M, **Schultz AA**, LeCaire, TJ, Bersch, AJ, Bertram L, ... & Peppard P. (2022). The Survey of the Health of Wisconsin (SHOW) Program: An infrastructure for advancing population health. *Frontiers in public health*, 464. DOI: 10.3389/fpubh.2022.818777
22. He X, Tomasallo C, Li X, **Schultz A**, Kamenetsky M, Sjodin A, Botelho J, Jarrett J, and Meiman J. (2022). Fish Consumption, Awareness of Fish Advisories, and Body Burden of Contaminants Among the Milwaukee Urban Anglers: A Biomonitoring Study. *Journal of Toxicology and Environmental Health*, Vol. 14 (2) pp. 20-35. DOI: 10.5897/JTEHS2022.0506

2021

23. Merten N, **Schultz A**, Walsh M, van Landingham S, Peppard P, Ryff C, Malecki K. (2021). Mental Health and Well-Being Among Individuals with a Sensory Loss During COVID-19 Lockdown Measures. *Innov Aging*. Dec 17;5 (Suppl 1):407–8. DOI: 10.1093/geroni/igab046.1580.
24. He X, Raymond M, Tomasallo C, **Schultz A**, & Meiman J. (2021). Fish consumption and awareness of fish advisories among Burmese refugees: A respondent-driven sampling study in Milwaukee, Wisconsin. *Environmental Research*, 197, 110906. DOI: 10.1016/j.envres.2021.110906
25. Hii M, Beyer K, Namin S, Malecki K, **Schultz A**, & Rublee C. (2021). Respiratory diseases, racial disparities, and residential proximity to coal power plants in Wisconsin, USA: a cross-sectional study. *The Lancet Global Health*, 9, S19. DOI: 10.1016/S2214-109X(21)00127-3

2020

26. **Schultz AA**, Malecki KM, Olson MM, Selman SB, Olaiya OI, Spicer A, Schauer JJ, Edwards R, Kirkorian HL, Dilworth-Bart J. (2020). Investigating Cumulative Exposures among 3- to 4-Year-Old Children Using Wearable Ultrafine Particle Sensors and Language Environment Devices: A Pilot and Feasibility Study. *International Journal of Environmental Research and Public Health*, 17, 5259. DOI: 10.3390/ijerph17145259

2019

27. **Schultz A**, Peppard P, Gangnon R, Malecki K. (2019). Residential proximity to concentrated animal feeding operations and allergic and respiratory disease. *Environment International*, 1; 130:104911. DOI: 10.1016/j.envint.2019.104911

2018

28. Malecki K, **Schultz A**, Bergmans R. (2018). Neighborhood Perceptions and Cumulative Impacts of Low-Level Chronic Exposure to Fine Particular Matter (PM<sub>2.5</sub>) on Cardiopulmonary Health. *International Journal of Environmental Research and Public Health*, 15, 84. DOI: 10.3390/ijerph15010084

2017

29. **Schultz AA** and Jacobs HJ. (2017). Confined animal feeding operations and state-based right to farm laws: Managing twenty-first century agriculture with a twentieth century framework in the case of Wisconsin, United States. *Journal of Soil and Water Conservation*, 72 (6), 133A-138A. DOI: 10.2489/jswc.72.6.133A
30. **Schultz A**, Schauer JJ, Malecki KCM. (2017). Allergic disease associations with regional and localized estimates of air pollution. *Environmental Research*, 155: 77-85. DOI: 10.1016/j.envres.2017.01.039
31. Malecki KC, **Schultz A**, Nikodemova M, & LeCaire T. (2017). Obesity, Air Pollution and Lung Function: Findings from the Survey of the Health of Wisconsin (SHOW). *Annals of Epidemiology*, 27(8), 514. DOI: 10.1016/j.annepidem.2017.07.019
32. Malecki KM, **Schultz AA**, Severtson DJ, Anderson HA, & VanDerslice JA. (2017). Private well stewardship among a general population-based sample of private well-owners. *Science of the Total Environment*, 601, 1533. DOI: 10.1016/j.scitotenv.2017.05.284.

#### Pre-print

1. **Schultz AA**, Malecki KM, Holzhausen EA, Bajwa P, Peppard P, LeCaire T, ... & Sethi AK. (2021). The Population-based Microbiome Research Core: a longitudinal infrastructure for assessment of household microbiome and human health research. *MedRxiv*, 2021-11 DOI: 10.1101/2021.11.22.21266369
2. Malecki KM, **Schultz AA**, Nikodemova M, Walsh MC, Bersch AJ, Cronin J, ... & Sethi AK. (2021). Statewide impact of COVID-19 on social determinants of health-a first look: findings from the survey of the health of Wisconsin. *MedRxiv*, 2021-02. DOI: 10.1101/2021.02.18.21252017
3. Malecki K, Nikodemova M, **Schultz A**, Walsh M, Bersch AJ, Sethi AK, ... & Westergaard R. (2020). Population changes in seroprevalence among a statewide sample in the United States. *MedRxiv*, 2020-12. DOI: 10.1101/2020.12.18.20248479

#### In Preparation

1. Xu W, Kamis C, Clark J, **Schultz A**, Malecki K, Engelman M. (2024). Life course cumulative neighborhood disadvantage and racial disparities in epigenetic aging. *PNAS*. Submission May 2024.

#### Technical Reports

1. Gordon BS, Malecki KCM, Camponeschi J, LeCaire TJ, Creswell PD, **Schultz AA**. Knowledge, awareness and Carbon Monoxide Detector Use in Wisconsin, 2020. Report to the Wisconsin Department of Health Services, Environmental Public Health Tracking. May 1, 2020.
2. **Schultz A**, Malecki K. Reducing Health Risks from Groundwater: Estimating Private Well Testing Behaviors and Barriers among Private Well Owners in Wisconsin, 2015. Report to the Groundwater Coordinating Council. Department of Natural Resources Grant #221. October 15, 2015.

## Invited Oral Presentations

\*indicates presenter

1. **Schultz A.\*** One Health Session 2: Case Study 1: PFAS exposure and Determinants of PFAS among statewide Wisconsin adult population: Survey of the Health of Wisconsin (SHOW). Michigan State University Center for PFAS Research: Annual PFAS Symposium. Lansing, Michigan. October 8, 2024.
2. Elliot K,\* Hoverman J,\* Leads R,\* **Schultz A,\*** Stevenson L.\* One Health Panel Discussion. Michigan State University Center for PFAS Research: Annual PFAS Symposium. Lansing, Michigan. October 8, 2024.
3. **Schultz A.\*** Outcomes of a Project to Promote Annual Testing and Safe Use of Private Wells in Wisconsin. Wisconsin Public Health Research Network (WPHRN). Webinar (virtual only). November 7, 2023.
4. **Schultz A,\*** Mathew, J.\* The Survey of the Health Of Wisconsin (SHOW). *Population-based Survey Experience in Multimode Health and Nutrition Data Collection*. Presenter and panelist. NHANES-CDC Webinar (virtual only). October 4, 2023.
5. **Schultz A.\*** Human Cancer Virology Program Seminar Series. Research opportunities, research findings, and expert services offered via the UWWCC SHOW Shared Resource. Virtual. March 20, 2023.
6. **Schultz A.\*** Bacteriology Seminar Series. Basic and translational microbiome findings and research opportunities via the SHOW program. Microbial Sciences Building Conference room, UW-Madison. March 30, 2023.
7. **Schultz A.\*** DFMCH Primary Care Research Fellowship Seminal Series. Research opportunities, research findings, and expert services offered: Survey of the Health of Wisconsin. Alumni Hall/St. Mary's Hospital. April 13, 2023.
8. **Schultz A.\*** DFMCH Primary Care Research Fellowship Seminal Series. Research opportunities, research findings, and expert services offered: Survey of the Health of Wisconsin. Alumni Hall/St. Mary's Hospital. April 20, 2022.
9. **Schultz A.,\*** Rodriguez, A., Cadmus-Bertram, L. SHOW as a UWCCC Shared Resource. National Cancer Institute Site Visit, UW HSLC, September 20, 2022
10. **Schultz A.\*** Panel Discussion: Managing and Supporting Big Data and Data Pipelines. Badger Connect Research Services Fair, HSLC, November 9, 2022.
11. Cadmus-Bertram L.\*, **Schultz A,** Peppard P, Malecki K. 2021. Relationship of COVID-related Changes to Mental Health and Sleep in Wisconsin Adults. Society of Behavioral Medicine Annual Meeting: Virtual presentation.
12. **Schultz A,\*** Park E,\* Dillard L,\* Schowalter M,\* Torell N.\* SHOW Investigators- Recent Findings and Results from the Survey of the Health of Wisconsin: Tracking Social Determinants of Health and COVID-19 in a Statewide Sample. PHS Monday Seminar. September 27, 2021.

13. Cronin J\* and **Schultz A.\*** WPHRN Presents: Using The Survey Of The Health Of Wisconsin In Public Health Practice. Virtual webinar. *Wisconsin Public Health Research Network*. Madison, Wisconsin. June 9, 2020.

### Oral Presentations Resulting from Submitted Abstract

\*indicates presenter

1. Pomazal R\*, Xu W, Kamis C, Agnew M, **Schultz A**, Eggers S, Engelman M, Malecki K. Should I Stay or Should I Go? Residence Length and Place-Based Exposure to Per- and Polyfluoroalkyl Substances and Lead. Population Association of America 2024 Annual Meeting. Columbus, Ohio, April 19, 2024.
2. Cronin J,\* **Schultz A,\*** Walsh M, Nikodemova N, Malecki K. October 30, 2020. The intersection of mental health and COVID-19: how exposure, testing, behaviors, and perceptions influence mental health outcomes. USC CESR COVID-19 Work In Progress Conference. Virtual Presentation.
3. Malecki K,\* **Schultz A.**, Spicer A., Schauer J. Source-apportionment of fine-particulate matter (PM<sub>2.5</sub> ug/m<sup>3</sup>) and associations with local and regional cardio-pulmonary health risk. Oral Presentation. *International Society for Environmental Epidemiology*. Utrecht, Netherlands, August 27, 2019.
4. Malecki K,\* Eggers S., Nikodemova M., **Schultz AA**. Urban and Rural Difference in Gut Microbial Diversity: Implications for Environmental Health. Oral & Poster Presentation. *International Society for Environmental Epidemiology*. Utrecht, Netherlands, August 27, 2019.
5. **Schultz A,\*** Malecki K. Allergies, asthma, and respiratory health effects associated with residential proximity to concentrated animal feeding operations: Data from the Survey of Health of Wisconsin (SHOW). Oral Presentation. *Wisconsin Public Health Association*. Baraboo, WI, May 23, 2017.
6. Malecki KMC,\* **Schultz A**. Disentangling Race and Place: Association of Chronic Fine Particulate Matter Exposure, Racial Segregation and Pulmonary Health. Oral Presentation. *International Society for Environmental Epidemiology*. Sao Paulo, Brazil. September 3, 2015.

### Poster Presentations

1. Pomazal R, Malecki KC, Stanton N, Shelton B, Lange M, Irving R, Meiman J, Remucal C, Cochran, A, **Schultz AA\***. Determinants of Per- and Polyfluoroalkyl Substances (PFAS) Exposure among Wisconsin Residents. International Society for Environmental Epidemiology 2024 Annual Meeting. Santiago, Chile, August, 2024.
2. Salas S, Engelman M, Clark J, Xu W, **Schultz A**, Malecki K. Perceived Discrimination and Biological Aging across Three Epigenetic Clocks. Population Association of America 2024 Annual Meeting. Columbus, Ohio, April 18, 2024.
3. Clark J, Bersch A, **Schultz A**, Malecki K, Engelman M. Neighborhood Attachment and Accelerated Biological Aging: Findings From the Researching Epigenetics, Weathering, Aging & Residential Disadvantage (REWARD) Study. Population Association of America 2024 Annual Meeting. Columbus, Ohio, April 18, 2024.
4. Xu W, Kamis C, Clark J, **Schultz A**, Agnew M, Engelman M, Malecki K. Double Jeopardy: Contributions of Life Course Neighborhood Exposures to Black–White Disparities in Epigenetic Aging. Population Association of America 2024 Annual Meeting. Columbus, Ohio, April 18, 2024.

5. Pomazal R, Malecki KMC, McCulley L, Stafford N, Schowalter M, **Schultz A.** (2023, March 6). *Changes in Alcohol Consumption during the COVID-19 Pandemic: Evidence from Wisconsin.* Population Health Sciences Welcome Day Poster Session 2023. Madison, WI.
6. Pomazal R, Malecki KMC, McCulley L, Stafford N, Schowalter M, **Schultz A.** (2023, May 25). *Changes in Alcohol Consumption during the COVID-19 Pandemic: Evidence from Wisconsin.* Wisconsin Public Health Association Annual Meeting 2023. Middleton, WI.
7. Pomazal R, Kamis C, Agnew M, **Schultz A,** Engelman M, Malecki KMC. (2023, April 13-15). *From Cradles to Neighborhoods: The Availability of Birth Certificate Data Linkages in Wisconsin.* Population Association of America Annual Meeting 2023, Session 136: Linked Data. New Orleans, Louisiana.
8. Wei X, Clark J, Kamis C, **Schultz A,** Agnew M, Engelman M, Malecki KMC. (2023, April 13-15). *Life Course Neighborhood Exposures and Accelerated Biological Aging: Integrating Residential Histories with Epigenetic Markers.* Population Association of America Annual Meeting 2023, Session 136: Linked Data. New Orleans, Louisiana.
9. Nelson-Bakkum E, **Schultz A,** Dilworth-Bart J, Kirkorian H, & Malecki K. Measures of Social-Environmental Confusion in a Pediatric Pilot Study. American Auditory Society Scientific and Technology Meeting, Scottsdale, Arizona. February 24, 2022.
10. **Schultz A,** Paulsen A, McCulley L. The Survey of the Health of Wisconsin (SHOW) Booth. Badger Connect Research Services Fair, HSLC, November 9, 2022.
11. Malecki KCM, Nikodemova M, **Schultz AA,** Spicer A, Engelman E. Cumulative Environmental Exposures (Social \* Environment) and Accelerated Biological Aging. Poster. Virtual conference. 32<sup>nd</sup> Annual International Society For Environmental Epidemiology (ISEE 2020). August 25, 2020.
12. Bednarke K, Campbell J, **Schultz A,** Malecki K, Beyer K. 2020. Associations among Green space and Children's lung function. Medical College of Wisconsin - Milwaukee: Virtual Student Poster Presentation.
13. Campbell J, Bednarke K, **Schultz A,** Malecki K, Beyer K. 2020. Associations among Neighborhood Green space, air pollution, and sleep quality and duration in Children: evidence from the Survey of the Health of Wisconsin. Medical College of Wisconsin - Milwaukee: Virtual Student Poster Presentation.
14. Spicer A, **Schultz AA,** Maddie MM, Oona O, Selman SB, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. The CREATE Study: Pilot testing Cumulative Personal Environmental Exposure Data Collection among 3-4 year old children. *International Society for Environmental Epidemiology.* Utrecht, Netherlands, August 27, 2019.
15. Sethi AK, **Schultz AA,** Holzhausen E, Nikodemova M, Gangnon R, LeCaire T, Peppard P, Malecki K. The SHOW Population-based Microbiome Research Core (PMRC) Poster Presentation. *Population Health Sciences Welcome Day.* Madison, WI, March 11, 2019.
16. **Schultz AA,** Selman SB, Maddie MM, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Cumulative Risks, Early Development and Academic Trajectories: rationale and methods. Poster Presentation. *Population Health Sciences Welcome Day.* Madison, WI, March 11, 2019.
17. Spicer A, **Schultz AA,** Selman SB, Maddie MM, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. PM2.5 Data Collection Methods and Quality Control: Results from The CREATE Study. Poster Presentation. *Population Health Sciences Welcome Day.* Madison, WI, March 11, 2019.

18. Oona O, **Schultz AA**, Selman SB, Maddie MM, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Micro-environmental PM2.5 Exposure in Young Children: Results from The CREATE Study. Poster Presentation. *Population Health Sciences Welcome Day*. Madison, WI, March 11, 2019.
19. Selman SB, **Schultz AA**, Maddie MM, Olaiya O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Measuring Early Language Environment Quality in Early Childhood: Results from The CREATE Study. Poster Presentation. *Population Health Sciences Welcome Day*. Madison, WI, March 11, 2019.
20. Maddie MM, **Schultz AA**, Selman SB, Olaiya O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Measuring Noise Duration and Intensity in Children's Environments: Results from the CREATE Study. Poster Presentation. *Population Health Sciences Welcome Day*. Madison, WI, March 11, 2019.
21. **Schultz AA.**, Selman SB, Maddie MM, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Cumulative Risks, Early Development and Academic Trajectories: rationale and methods. Poster Presentation. *Wisconsin Environmental Health Network*. Madison, WI, March 1, 2019.
22. Spicer A, **Schultz AA**, Selman SB, Maddie MM, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. PM2.5 Data Collection Methods and Quality Control: Results from The CREATE Study. Poster Presentation. *Wisconsin Environmental Health Network*. Madison, WI, March 1, 2019.
23. Oona O, **Schultz AA**, Selman SB, Maddie MM, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Micro-environmental PM2.5 Exposure in Young Children: Results from The CREATE Study. Poster Presentation. *Wisconsin Environmental Health Network*. Madison, WI, March 1, 2019.
24. Selman SB, **Schultz AA**, Maddie MM, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Measuring Early Language Environment Quality in Early Childhood: Results from The CREATE Study. Poster Presentation. *Wisconsin Environmental Health Network*. Madison, WI, March 1, 2019.
25. Maddie MM, **Schultz AA**, Selman SB, Oona O, Schauer J, Kirkorian H, Malecki K and Dilworth-bart J. Measuring Noise Duration and Intensity in Children's Environments: Results from the CREATE Study. Poster Presentation. *Wisconsin Environmental Health Network*. Madison, WI, March 1, 2019.
26. **Schultz A**, Malecki K. Concentrated Animal Feeding Operation Air Emissions & Respiratory Health Effects. Poster Presentation. *American Public Health Association*. Denver, CO, October 31, 2016.
27. **Schultz A**, Malecki K. Concentrated Animal Feeding Operation Air Emissions & Respiratory Health Effects. Poster Presentation. *International Society for Environmental Epidemiology*. Rome, Italy, September 3, 2016.
28. **Schultz A**, Malecki K. Concentrated Animal Feeding Operation Air Emissions & Respiratory Health Effects. Poster Presentation. *Congress of the Americas, Society of Epidemiological Research*. Miami, FL, June 23, 2016.
29. **Schultz A**, Malecki K. Concentrated Animal Feeding operations in Wisconsin and Food Deserts in Racine, WI: Applications of Geographic Information Systems. Oral Presentation. *Population Health Institute Demography and Sociology Conference*. Madison, WI, May 17, 2016.

30. **Schultz A**, Malecki K. Concentrated Animal Feeding Operation Air Emissions & Respiratory Health Effects. Poster Presentation. *Department of Population Health Sciences Welcome Day*. Madison, WI, April 3, 2016.
31. Malecki KMC, **Schultz A**, Severtson, DL, Vanderslice, J, Anderson, HA. Understanding Chemical and Non-chemical Vulnerability of private well owners: Results from the Survey of the Health of Wisconsin. Poster Presentation. *American Public Health Association*. Chicago, IL, November 4, 2015.
32. **Schultz A**, Gangnon, R, Schauer J, Malecki KMC. Fine Particulate Matter and Allergies and Asthma. Results from the Survey of the Health of Wisconsin. Poster Presentation. *International Society for Environmental Epidemiology*. Sao Paolo, Brazil. September 2, 2015.
33. Malecki KMC, **Schultz A**, Bergmans R, LeCaire T, Palta M. Cumulative Health Impacts of Chronic Exposure to Fine Particulate Matter and Neighborhood Perceptions of Crime on Pulmonary Health. Results from the Survey of the Health of Wisconsin. Poster Presentation. *International Society for Environmental Epidemiology*. Sao Paolo, Brazil. September 2, 2015.
34. Malecki KMC, **Schultz A**, Severtson, DL, Vanderslice, J, Anderson, HA. Understanding Chemical and Non-chemical Vulnerability of private well owners: Results from the Survey of the Health of Wisconsin. Poster Presentation. *International Society for Environmental Epidemiology*. Sao Paolo, Brazil. September 1, 2015.
35. **Schultz AA**, Walsh M, Bersch A, Malecki KC, Nieto FJ. Foreclosures and Self-Reported, Mental, and Physical Health. *Population Health Sciences Department Welcome Day Poster Session*. Madison, Wisconsin, March 23, 2015.
36. **Schultz AA**, Walsh M, Bersch A, Malecki KC, Nieto FJ. Foreclosures and Self-Reported, Mental, and Physical Health. *Population Health Sciences Department Welcome Day Poster Session*. Madison, Wisconsin, March 24, 2014.
37. **Schultz AA**, Di Girolamo L, Frank TD. The Spatial and Temporal Variability of Aerosol Optical Depths in California Air Districts. *Association of American Geographers Conference*. Champaign, Illinois, March 2008.

## MENTORING

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|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Graduate and undergraduate research</b> |                                                                                                                                                                                                                                                                                             |
| 2023-                                      | Committee member, PhD Candidate, University of Wisconsin-Madison:<br>Rachel Pomozal, PhD Epidemiology, Anticipated graduation 2025. Research title:<br><i>Residential histories, PFAS and Pb exposures across the life course, and inflammation.</i>                                        |
| 2022-2023                                  | Committee member, MS Candidate, University of Wisconsin-Madison:<br>Sarah Luango, MS Population Health Science, graduated 2023. Research title:<br><i>Metal and chemical exposures and high sensitivity C-reactive protein: comparison of environmental mixtures analyses using NHANES.</i> |
| 2022-2023                                  | Advisor, Research Credits, University of Wisconsin-Madison:<br>Rachel Pomozal, Epidemiology PhD Candidate. Research title: <i>Characterization of serum PFAS levels among statewide population-based cohort and cumulative exposure estimates</i>                                           |
| 2021-2023                                  | Preceptor, PhD Candidate, Capella University:<br>Tarakee Jackson, PhD Public Health, graduated 2023. Dissertation Research title: <i>Effective Public Health Academic Cultural Diversity and Competency Training</i>                                                                        |

- 2021-2024 Preceptor, MPH Candidate, University of Wisconsin-Madison:  
Amy Van Aartsen, MPH, graduated 2024. Applied research title: *Taking the Next Step (TaNS): Using community-based research findings to promote safe private well water.*
- 2019-2020 Preceptor, MPH Candidate, University of Wisconsin-Madison:  
Bianca Silva, MPH, graduated 2020. Applied research title: *Carbon Monoxide monitoring, awareness, and risk in Wisconsin.*
- 2018-2019 Mentor, Biology 152 Independent Research, University of Wisconsin-Madison:  
Hannah James, BS Biology, graduated 2019. Research title: *PTSD and the gut microbiome*

### **Graduate Assistantships**

- 2022-2023 Supervisor, Project Assistant, Survey of the Health of Wisconsin.  
Lauren Dillard, PhD Candidate in Population Health Science, University of Wisconsin-Madison. Graduated in 2023. *Mentored on survey data harmonization and hearing loss & healthcare access research manuscripts.*
- 2022-2023 Supervisor, Project Assistant, Survey of the Health of Wisconsin.  
Sarah Luongo, MS Candidate in Population Health Science, University of Wisconsin-Madison. Graduated in 2023. *Mentored on survey data harmonization, COVID-19 survey data cleaning, generation of data pipelines and documentation for reproducible research.*
- 2022-2023 Supervisor, Project Assistant, Survey of the Health of Wisconsin.  
Erin Nelson-Bakkum, PhD Candidate in Population Health Science, University of Wisconsin-Madison. Graduation anticipated in 2025. *Mentored on data request intake process, consultations with investigators and data users, data deliverables, internal data tracking for improved client experience, and a COVID-19 methods paper manuscript.*
- 2017-2019 Manager, Project Assistant, Survey of the Health of Wisconsin.  
Maddie Olson, PhD Candidate in Audiology, University of Wisconsin-Madison. Graduated in 2020. *Mentored on data collection and analysis of environmental exposures via wearables and psychosocial/cognitive functioning on 3–4-year-old children for the CREATE pilot.*

### **Academic Staff**

- 2022-2023 Supervisor, Adam Paulsen, MS, Researcher. Survey of the Health of Wisconsin. *Advised on securing internal and external funding, grant writing, and outreach with investigators.*
- 2021-2023 Supervisor, Allison Rodriguez, MPH, Ancillary Study Coordinator. Survey of the Health of Wisconsin. *Advised on consultation and outreach with investigators, study & survey design, recruitment and community outreach, data collection and data dissemination efforts.*
- 2021-2023 Supervisor, Laura McCulley, MPH, Communications and Outreach Specialist. Survey of the Health of Wisconsin. *Advised on outreach plan to increase users, impact, funding to UW; implemented data tracking, social media platform, newsletters, and researcher spotlights.*
- 2021-2023 Supervisor, Andy Bersch, MS, Data Scientist. Survey of the Health of Wisconsin. *Advised on data harmonization, curation, documentation, and epigenetic data cleaning.*
- 2022-2023 Supervisor, Noah Stafford, MS, Data Analyst. Survey of the Health of Wisconsin. *Advised on cleaning and analysis of microbiome data, data request intake process, data tracking system with QA/QC, development of code library, and documentation for users and internal staff.*

- 2020-2021 Supervisor, Jacquie Cronen, MPH, Communications and Outreach Specialist. Survey of the Health of Wisconsin. *Advised on outreach plan to increase users, impact, funding to UW; implemented data tracking, social media platform, newsletters, and researcher spotlights.*
- 2017-2019 Manager, Oona-ife Olaiya, BS, Field interviewer. CREATE pilot (PI: Janean Dilworth-bart). *Advised on collection and analysis of environmental data via wearables, and psychosocial and cognitive functioning assessment on 3–4-year-old children.*

## TEACHING EXPERIENCE

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- 2024 **Medical College of Wisconsin**, Guest Lecturer  
Introduction to the principles of community engagement  
Department of Medicine, *Milwaukee, WI*  
Professor: Tarakee Jackson, DrPH, MPH
- 2022 **University of Wisconsin**, Guest Lecturer  
Environmental health and advocacy (PHS 918)  
Department of Population Health Science, *Madison, WI*  
Professor: Kristen Malecki, PhD
- 2016 **University of Wisconsin**, Guest Lecturer  
Environmental Health (PHS 789)  
Department of Population Health Science *Madison, WI*  
Professor: Kristen Malecki, PhD, MPH
- 2016 **University of Wisconsin**, Guest Lecturer, Demography Workshop (DEMSUM 2016)  
Department of Sociology *Madison, WI*
- 2015-2016 **University of Wisconsin**, Curriculum Development & Reader/grader  
Environmental Health (PHS 789)  
Department of Population Health Science *Madison, WI*  
Professor: Kristen Malecki, PhD, MPH
- 2013 **Teach for America**, Corps Member Advisor  
Teach for America Institute Training *Philadelphia, PA*
- Mentored 12 teachers at Boy's Latin Prep School
  - Coached corps members on mindsets, archetypes, & technical classroom skills
  - Organized and led teacher trainings & professional development
- 2011-2013 **Barton-Lexa High School**, Secondary Education Math Teacher, *Lexa, AR*
- Curriculum developer & instructor:
    - AP Calculus (1 class)
    - Pre-Calculus (1 class)
    - Algebra III (1 class)
    - Geometry (4 classes)
    - Algebra Remediation (1 class)
  - Developed and led new programs including:
    - Chess club (instructor)
    - ACT prep program (instructor)
    - Community walk/run program (co-instructor)
    - Community healthy eating and gardening education initiative (co-instructor)

2011 **Teach for America Institute Training**, Secondary Education - Mathematics  
Delta State University, *Cleveland, MS*  
Summer school instructor, Hollandale School District, *Hollandale, MS*

## AFFILIATIONS

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- 2022- Affiliate, Spatial and Environmental Demography Working Group, University of Wisconsin-Madison  
2022- Affiliate, Center for Demography of Health & Aging, University of Wisconsin-Madison  
2015-2016 Student Representative, Epidemiology Steering Committee, Population Health Sciences, University of Wisconsin-Madison

## MEMEBERSHIPS

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- 2021- Member, University of Wisconsin Carbone Cancer Center  
2013-2019 Member, Population Health Sciences Student Organization  
2015-2016 Member, Website improvement and development committee  
Survey of the Health of Wisconsin  
2008-2019 Member, GIScorps  
2008-2008 Member, Environmental Council  
2007-2008 President, Geography National Honors Society, University of Illinois-Champaign

## REVIEWER

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### Peer-reviewed Journals

*Wisconsin Medical Journal*  
*Human and Ecological Risk Assessment: An International Journal*  
*Environmental Advances*  
*BMC Medical Education*

### Policy Strategies and Solutions

*County Health Rankings and Roadmaps: CAFO regulations*  
*County Health Rankings and Roadmaps: PFAS regulations*

## MEDIA INTERVIEWS

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1. New study: Wisconsinites have PFAS in blood. *abc News ch 18*. August 28, 2024.
2. New research finds ties between higher PFAS levels and eating caught fish, microwaved popcorn. *Wisconsin Public Radio*. September 5, 2024.
3. Wisconsinites have lower blood PFAS levels than found in other states, new study finds. *Milwaukee Journal Sentinel*. September 11, 2024.
4. The Presence of Forever Chemicals with Dr. Amy Schultz. *iHeart Radio*. September 29, 2024.

## TECHNICAL SKILLS

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### Software and languages:

Statistical SAS (advanced), R (intermediate), STATA (intermediate)  
Scripting SQL (intermediate), Python (beginner)  
Databases MySQL (intermediate), Oracle (beginner)  
OS MS Windows  
Spatial ESRI ArcGIS, ERDAS IMAGINE  
Other Jupyter Notebook, Power BI, Tableau, Canva, REDCap, Qualtrics

## AWARDS

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- 2019 Outstanding Student Poster Achievement Award  
Wisconsin Environmental Health Network, *Madison, WI*
- 2016 Outstanding Student Poster Achievement Award  
American Public Health Association, *Denver, CO*
- 2016 Ira and Ineva Reilly Baldwin Wisconsin Idea Endowment Award, \$10,000  
West Madison Community Kitchen Cooking Series Program, *Madison, WI*
- 2014 Groundwater Coordinating Council Award, \$4,000  
Wisconsin Department of Natural Resources, *Madison, WI*
- 2013 AmeriCorps Service Award, \$11,000  
Teach for America, Mississippi Delta Region
- 2012 Highest 2012 geometry state test scores  
Students achieved 82% Advanced Proficient/Proficient on state geometry exam  
Great Rivers Co-op, Arkansas
- 2009 Outstanding Public Service Award, \$1,000  
Bureau of Land Management, Department of the Interior, *Salem, OR*
- 2008 Environmental Council Research Award, \$2,000  
University of Illinois-Champaign, *Champaign, IL*
- 2007 Anne Surratt Research Scholarship, \$4,000  
University of Illinois-Champaign, *Champaign, IL*

## CERTIFICATES AND TRAININGS

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- 2024 **Midlife Exposures Workshop** (12 hours)  
Identifying Midlife Social Exposures that Might Modify Risk for Cognitive Impairment  
Associated with Early Life Disadvantage  
National Academies of Sciences, Engineering, Medicine, *Washington, DC* (Virtual)
- 2024 **Women and Leadership** (6 hours)  
Learning and Talent Development  
Office of Human Resources  
University of Wisconsin-Madison, *Madison, WI*
- 2024 **Being A(n Even) Better Mentor Faculty Training** (6 hours)  
Center for Demography & Ecology, Center for Demography of Health &  
Aging, Collaborative for Reproductive Equity, and Health Disparities Research Scholars  
University of Wisconsin-Madison, *Madison, WI*
- 2023 **Breaking the Silence: Addressing Dementia in Communities of Color** (6 hours)  
Center for Community Engagement and Health Partnerships &

Wisconsin Alzheimer's Institute, *Milwaukee, WI*

- 2022 **Diversity 101 Cultural Competency Training** (8 hours over 6 weeks)  
Doctoral Candidate Dissertation | Capella University, *Minneapolis, MN*
- 2018 **Environmental Mixtures Workshop** (16 hours)  
Columbia University | Mailman School of Public Health, *New York, NY*
- 2011-2013 **Corps Member Training & Professional Development** | Teach for America  
Mississippi Delta Region, *Clarksdale, MS*  
(1) Foundations of Teaching (400 hours)  
    a. Curriculum development  
    b. Planning, tracking, and management  
    c. Behavior management cycle  
(2) Diversity, Equity, and Inclusiveness (80 hours)  
(3) Leadership (80 hours)  
(4) Student teaching (8 weeks)
- 2013 **State of Arkansas Teaching Certificate**  
Secondary Math (Grades 6-12)
- 2008 **Intermediate ESRI ArcGIS Training** (20 hours)  
Bureau of Land Management, *Salem, Oregon*