

CURRICULUM VITAE
ROBERT BALTASAR HOOD, PHD MPH BS

Ohio State University
College of Public Health
Division of Epidemiology
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CURRENT POSITION

Aug 2024-Present **Assistant Professor**, Ohio State University, College of Public Health, Division of Epidemiology, Columbus, OH

EDUCATION

| | | |
|----------------|------|---|
| Postdoc | 2023 | Emory University, Rollins School of Public Health, Department of Epidemiology, Atlanta, GA Focal area: <i>Environmental omics and Reproductive health</i> |
| PhD | 2020 | The Ohio State University, College of Public Health, Division of Epidemiology, Columbus, OH Graduate Interdisciplinary Specialization: <i>Biomedical, Clinical, and Translational Science</i> Dissertation: <i>Hepatitis C virus and maternal and child health in the United States</i> |
| MPH | 2015 | The University of Georgia, College of Public Health, Department of Epidemiology & Biostatistics, Athens, GA Thesis: <i>An ecological analysis of US counties; particular matter concentration and lung & bronchial cancer incidence</i> |
| BS | 2014 | Baldwin Wallace University, Departments of Biology & Public Health, Berea, OH Senior Thesis: <i>Clostridium difficile: An overview</i> |

PUBLICATIONS

Highlights

- 41 peer-reviewed publications published or accepted for publication
 - 23 first author or co-first author (*) publications
 - 18 coauthor publications

Published

1. **Hood RB**, Everson TM, Ford JB, Hauser R, Knight A, Smith A, Gaskins AJ. Epigenetic age acceleration of the follicular fluid and markers of ovarian stimulation and aging. *Human Reproduction*.
2. **Hood RB**,* Nelson J,* Minguéz-Alarcon L, Hauser R, Jones D, Liang D, Gaskins AJ. The associations between pre-conception urinary phthalate concentrations, the serum metabolome, and live birth among women undergoing assisted reproduction. *Environmental Research*.

3. Olivo-Marston S, Singh S, **Hood RB**, Adetona O. Cancer odds among Ohio firefighters: data from the Ohio Cancer Incidence Surveillance System (OCISS) 1996-2019. *BMJ Public Health*.
4. **Hood RB**, Moyd S, Hoffman S, Chow SS, Tan Y, Bhanushali P, Wang Y, Sivalogan K, Gaskins AJ, Liang D. Metabolomics application in understanding the link between air pollution and infant health outcomes: A narrative review. *Current Pollution Reports*. 2024.
5. **Hood RB**, Norris AH, Shoben A, Miller WC, Harris RE, Pomeroy LW. Forecasting hepatitis C virus status for children in the United States: a modeling study. *Clinical Infectious Diseases*. 2024.
6. Christensen GM, Terrell M, Pearce B, **Hood RB**, Barton H, Tomlinson MS, Pearson M, Marcus M. Exploring autism spectrum disorders (ASD) and attention deficit disorder (ADD/ADHD) in children exposed to polybrominated biphenyl. *Environmental Epidemiology*. 2024;8(2):e304.
7. Tang Z, Gaskins AJ, **Hood RB**, Ford JB, Hauser R, Smith AK, Everson TM. Former smoking associated with epigenetic modifications in human granulosa cells among women undergoing assisted reproduction. *Scientific Reports*. 2024;14(1):5009.
8. Barat S,* **Hood RB**,* Terrell ML, Howards PP, Spencer JB, Wainstock T, Barton H, Pearson M, Kesner JS, Meadows JW, Marcus M, Gaskins AJ. In-utero exposure to polybrominated biphenyl (PBB) and menstrual cycle function in adulthood. *International Journal of Hygiene and Environmental Health*. 2023;256:114297.
9. Andre KE, **Hood RB**, Gaskins AJ, Kawwass JF, Almquist G, Kramer MR, Hipp HS. Neighborhood deprivation and racial differences in in vitro fertilization outcomes. *American Journal of Obstetrics & Gynecology*. 2023.
10. **Hood RB**, Miller WC, Shoben A, Harris RE, Norris AH. Maternal hepatitis C virus infection and three adverse maternal outcomes in the United States. *PLOS One*. 2023;18(10):e0291994.
11. **Hood RB**, Terrell ML, Mardovich S, Somers EC, Pearson M, Barton H, Tomlinson MS, Marcus M. Polybrominated biphenyls (PBB) and prevalence of autoimmune disorders among members of the Michigan PBB Registry. *Environmental Research*. 2023;239(1):117312.
12. Hoffman SS, Liang D, **Hood RB**, Tan Y, Terrell MT, Marder ME, Barton H, Pearson MA, Walker D, Barr DB, Jones DP, Marcus M. Metabolic changes associated with polybrominated biphenyls and polychlorinated biphenyls in the Michigan PBB registry. *Environmental Health Perspectives*. 2023;131(10):107005.
13. **Hood RB**, Hart JE, Laden F, Rosner B, Chavarro JE, Gaskins AJ. Exposure to particulate matter air pollution and age of menarche in a nationwide cohort of US girls. *Environmental Health Perspectives*. 2023;131(10):107003.
14. **Hood RB**, Liang D, Tan Y, Ford J, Souter I, Chavarro J, Jones DP, Hauser R, Gaskins AJ. Serum and follicular fluid metabolome and markers of ovarian stimulation. *Human Reproduction*. 2023;38(11):2196-2207.
15. Smith MK, Broscoe M, Chakraborty P, Hill J, **Hood RB**, McGowan ML, Bessett D, Norris AH. COVID-19 and abortion in the Ohio River Valley: a case study of Kentucky, Ohio, and West Virginia. *Perspectives on Sexual and Reproductive Health*. 2023;55(3):178-191.

16. **Hood RB**, Miller WC, Shoben A, Harris RE, Norris AH. Maternal hepatitis C virus infection and adverse newborn outcomes in the US. *Maternal & Child Health Journal*. 2023;27(8):1343-1351.
17. Gaskins AJ, **Hood RB**, Ford JB, Hauser R, Knight A, Smith AK, Everson TM. Traffic-related air pollution and supplemental folic acid intake in relation to DNA methylation in granulosa cells. *Clinical Epigenetics*. 2023;15(1):84.
18. Smith MK, McGowan ML, Chakraborty P, **Hood RB**, Field M, Bessett D, Norwood C, Norris AH. Kentucky's Abortion Landscape, 2010 to 2019: an analysis of Pre-Dobbs abortion disparities in a rural, restrictive state. *The Lancet Regional Health - Americas*. 2023;19:100441.
19. **Hood RB**, Terrell ML, Smith A, Curtis S, Conneely K, Pearson M, Barton H, Barr DB, Marder E, Marcus M. Elimination of PBB-153; findings from a cohort of Michigan adults. *Environmental Research*. 2023;220:115146.
20. Chakraborty P, Chettri S, Gallo M, Smith M, **Hood RB**, Bessett D, Casterline JB, Norris AH. Factors associated with never-use of long-acting reversible contraception among adult reproductive-aged women in Ohio. *Perspectives on Sexual & Reproductive Health*. 2023;55(1):38-48.
21. Hwang S, **Hood RB**, Hauser R, Schwartz J, Laden F, Jones D, Liang D, Gaskins AJ. Using follicular fluid metabolomics to investigate the association between air pollution and oocyte quality. *Environment International*. 2022;169:107552.
22. **Hood RB**, Liang D, Tan Y, Ford J, Souter I, Jones D, Hauser R, Gaskins AJ. Characterizing the follicular fluid metabolome: quantifying the correlation across follicles and with the serum metabolome. *Fertility & Sterility*. 2022;118(5):970-979.
23. **Hood RB**, Turner AN, Smith M, Chakraborty P, Chettri S, Bessett D, Norris AH, Gallo MF. Housing stability and access to general healthcare and reproductive healthcare among women in Ohio. *Maternal & Child Health Journal*. 2022;26(11):2185-2191.
24. **Hood RB**, Andridge A, Sealy-Jefferson S, Felix AS. Health disparities in liver cancer: an analysis of the Ohio Cancer Incidence Surveillance System. *Ohio Journal of Public Health*. 2022;5(1):64-72.
25. **Hood RB**, Moseson H, Smith M, Chakraborty P, Norris AH, Gallo MF. Comparison of abortion incidence estimates derived from direct survey questions versus the list experiment among women in Ohio. *Plos One*. 2022;17(6):e0269476.
26. Li Z, Sarnat JA, Liu K, **Hood RB**, Chang C, Hu X, Tran V, Greenwald R, Chang H, Russell A, Yu T, Jones D, Liang D. Evaluation of the use of saliva metabolome as a surrogate of blood metabolome in assessing internal exposures to traffic-related air pollution. *Environmental Science & Technology*. 2022;56(10):6526-6536.
27. Hyder A, Smith M, Sealy-Jefferson S, **Hood RB**, Chettri S, Dundon A, Underwood A, Bessett D, Norris AH. Community-based systems dynamics for reproductive health: an example from urban Ohio, USA. *Progress in Community Health Partnerships: Research, Education, and Action*. 2022;16(3):361-383.
28. **Hood RB**, Liang D, Tang Z, Kloog I, Schwartz J, Laden F, Jones D, Gaskins AJ. Length of PM_{2.5} exposure and alterations in the serum metabolome among women undergoing infertility treatment. *Environmental Epidemiology*. 2022;6(1):e191.

29. **Hood RB**, Liang D, Chiu YH, Sandoval-Insausti H, Chavarro JE, Jones D, Hauser R, Gaskins AJ. Pesticide residue intake from fruits and vegetables and alterations in the serum metabolome of women undergoing infertility treatment. *Environment International*. 2022;160:107061.
30. Kadir M, **Hood RB**, Minguéz-Alarcon L, Maldonado-Carceles AB, Ford JB, Souter I, Chavarro JE, Gaskins AJ. Folate intake and ovarian reserve among women attending a fertility center. *Fertility & Sterility*. 2022;117(1):171-180.
31. Smith M, Turner AN, Chakraborty P, **Hood RB**, Bessett D, Gallo MF, Norris AH. Opinions about abortion among reproductive-age women in Ohio. *Sexuality Research & Social Policy*. 2021:1-13.
32. Gaskins AJ, Tang Z, **Hood RB**, Ford J, Schwartz JD, Jones DP, Laden F, Liang D. Periconception air pollution, metabolomic biomarkers, and fertility among women undergoing assisted reproduction. *Environment International*. 2021;15:106666.
33. **Hood RB**, James P, Fong KC, Minguéz-Alarcon L, Coull BA, Schwartz J, Kloog I, Laden F, Gaskins AJ. The influence of fine particulate matter on the association between residential greenness and ovarian reserve. *Environmental Research*. 2021;197:111162.
34. **Hood RB**, Cash RE, Chrzan K, Mercer C, Rivard MK, Panchal AR. Cancer among Emergency Medical Services professionals: a cross-sectional evaluation of self-reported cancer. *Journal of Emergency Medical Services*. 2021;43(6).
35. Chakraborty P, Gallo MF, Nawaz S, Smith M, **Hood RB**, Chettri S, Bessett D, Norris AH, Casterline J, Turner AN. Use of nonpreferred contraceptive methods among women in Ohio. *Contraception*. 2021;103(5):328-335.
36. **Hood RB**, Norris AH, Huber-Krum S, Garver S, Chapotera G, Turner AN. Food insecurity and adverse pregnancy outcomes among rural Malawian women. *International Journal of Gynecology and Obstetrics*. 2021;156(2):309-315.
37. Norris AH, Chakraborty P, Lang K, **Hood RB**, Hayford S, Keder L, Bessett D, Smith MH, Hill J, Broscoe M, Norwood C, McGowan ML. Abortion access in Ohio's changing legislative context, 2010-2018. *American Journal of Public Health*. 2020;110(80):1228-1234.
38. **Hood RB**, Turner AN, Huber-Krum S, Lancaster KE, Mwapasa V, Pindexter T, Nampanjeni P, Esber A, Norris AH. For human papillomavirus self-sampling, stated willingness does not correspond with subsequent uptake by rural Malawian women. *Sexually Transmitted Diseases*. 2020;47(4):275-279.
39. Chakraborty P, Norris AH, Huber-Krum S, Garver S, **Hood RB**, Banda V, Esber A, Reese PC, Krysiak R, Turner AN. An assessment of risk factors for HSV-2 infection in Malawian women using two classifications for the HerpeSelect 2 test. *Sexually Transmitted Diseases*. 2020;47(3):192-196.
40. **Hood RB**, Smith E, Early RB, Weber Z, Ross SB, Rosemurgy AS, Harris RE. Rates of benign heart tumors diagnosed in Florida hospitals: 1988-2012. *Florida Public Health Review*. 2019;16(1):147-151.
41. **Hood RB**, Early RB, Weber Z, Schwartzbaum JA, Ross SB, Rosemurgy AS, Harris RE. Epidemiology of Creutzfeldt-Jakob in Floridian men and women: 1988-2012. *American Journal of Biomedical Science and Research*. 2019;6(4):312-315.

CONFERENCE PRESENTATIONS

Oral Presentation

1. **Hood RB**, Liang D, Wang Y, Tan Y, Souter I, Jones DP, Hauser R, Chavarro JE, Gaskins AJ. Metabolic mechanism underlying the association between the pro-fertility diet and in vitro fertilization outcomes. *Society for Pediatric and Perinatal Epidemiology Research (SPER)*, Austin, TX, USA. Jun 2024.
2. Nelson J, **Hood RB**, Minguéz-Alarcon L, Hauser R, Jones D, Liang D, Gaskins AJ. The association between pre-conception phthalate exposure, the serum metabolome, and outcomes of infertility treatment. *International Society for Environmental Epidemiology (ISEE)*, Kaohsiung, Taiwan, Sep 2023.
3. Cleary S, **Hood RB**, Olack E, Tomlinson MS, Marder ME, Barton H, Marcus M, Pearson M. Evaluating an environmental health community-academic research partnership through traditional and non-traditional methods. *International Society for Exposure Science (ISES)*, Chicago, IL, USA. Aug 2023.
4. Andre KE, **Hood RB**, Gaskins AJ, Kawwass JF, Almquist RG, Kramer MR, Hipp HS. Neighborhood deprivation and Black-White differences in in vitro fertilization outcomes. *American Society for Reproductive Medicine (ASRM)*, Anaheim, CA, USA. Oct 2022.
5. Gaskins AJ, **Hood RB**, Ford JB, Hauser R, Smith AK, Everson TM. Traffic-related air pollution and DNA methylation of the follicular fluid. *International Society for Environmental Epidemiology (ISEE)*, Athens, Greece. Sep 2022.
6. **Hood RB**, Liang D, Chavarro JE, Chiu YH, Gaskins AJ. Pesticide residue in fruits and vegetables and alterations in serum metabolome among women undergoing assisted reproduction. *Metabolomics Association of North America (MANA)*, Virtual. Oct 2021.
7. **Hood RB**, Chavarro JE, Hart JE, Rosner B, Laden F, Gaskins AJ. Exposure to particulate matter air pollution and age of menarche in a nationwide cohort of US girls. *International Society for Environmental Epidemiology (ISEE)*, New York, NY, USA. Aug 2021.

Poster Presentation

1. Andre KE, **Hood RB**, Gaskins AJ, Nagy ZP, Shapiro D, Lee J, Hipp HS. Effects of green space on donor oocyte outcomes. *American Society for Reproductive Medicine (ASRM)*, Denver, CO, USA. Oct 2024.
2. Dunkley V, **Hood RB**, Terrell M, Barton H, Pearson M, Marcus M. Assessing the relationship between brominated flame retardant exposure and osteoarthritis development. *American Public Health Association (APHA)*, Atlanta, GA, USA. Nov 2023.
3. **Hood RB**, Hipp HS, Lee J, Nagy ZP, Shapiro DB, Gaskins AJ. Dietary supplement use in relation to markers of ovarian reserve and response to controlled ovarian hyperstimulation among oocyte donors. *Society for Pediatric and Perinatal Epidemiology Research (SPER)*, Portland, OR, USA. Jun 2023.
4. Olivo-Marston S, Singh S, **Hood RB**, Adetona O. Cancer prevalence among Ohio firefighters: data from the Ohio Cancer Incidence Surveillance System (OCISS). *American Association for Cancer Research*, Orland, FL, USA. Apr 2023.

5. Tang Z, Gaskins AJ, **Hood RB**, Ford JB, Hauser R, Smith AK, Everson TM. Smoking associated with epigenetic modification in human follicular fluid among women undergoing assisted reproductive treatment. *Epigenomics of Common Diseases*, Virtual. Nov 2022.
6. Hwang S, **Hood RB**, Hauser R, Schwartz J, Laden F, Jones D, Liang D, Gaskins AJ. Using follicular fluid metabolomics to investigate the association between air pollution and oocyte quality. *International Society for Environmental Epidemiology (ISEE)*, Athens, Greece. Sep 2022
7. **Hood RB**, Liang D, Ford J, Souter I, Jones D, Hauser R, Gaskins AJ. Characterizing the follicular fluid metabolome: quantifying the correlation across follicles and with the serum metabolome. *Metabolomics Association of North America (MANA)*, Virtual. Oct 2021.
8. **Hood RB**, Liang D, Tang Z, Kloog I, Schwartz J, Laden F, Jones D, Gaskins AJ. Duration of PM_{2.5} exposure and alterations in the serum metabolome. *International Society for Environmental Epidemiology (ISEE)*, New York, NY, USA. Aug 2021.
9. Gaskins AJ, **Hood RB**, Minguéz-Alarcon L, Ford J, Souter I, Laden F, Hart JE. Personal exposure to particulate matter air pollution and outcomes of ovarian stimulation: a pilot study in Massachusetts, US. *International Society for Environmental Epidemiology (ISEE)*, New York, NY, USA. Aug 2021.
10. Kadir M, **Hood RB**, Minguéz-Alarcon L, Maldonado AB, Ford JB, Souter I, Chavarro JE, Gaskins AJ. Folate intake and ovarian reserve among women attending a fertility center. *Society for Pediatric & Perinatal Epidemiologic Research (SPER)*, Virtual. Jun 2021.
11. Chakraborty P, Chettri S, Gallo MF, Smith M, **Hood RB**, Casterline J, Turner AN. Correlates of never-use of long-acting reversible contraception among adult, reproductive-aged women who have used contraception in Ohio. *Society for Family Planning (SFP)*, Baltimore, MD, USA. Oct 2020.
12. Chakraborty P, Gallo MF, Smith M, **Hood RB**, Nawaz A, Norris AH, Casterline J, Turner AN. Reasons for non-use of preferred contraceptive method among contracepting women in Ohio. *Society for Family Planning (SFP)*, Baltimore, MD, USA. Oct 2020.
13. **Hood RB**, Cash RE, Chrzan K, Mercer C, Rivard MK, Panchal AR. Cancer among emergency medical services professionals: cross-sectional evaluation of self-reported cancer. *National Association of EMS Physicians (NAEMSP)*, San Diego, CA, USA. Jan 2020.
14. Norris AH, Chakraborty P, Lang K, **Hood RB**, Hayford S, Keder L, Bessett D, Norwood C, McGowan ML. Abortion access in Ohio's changing legislative context. *Society of Family Planning (SFP)*, Los Angeles, CA, USA. Oct 2019.
15. **Hood RB**, Felix A. Neighborhood disadvantage is associated with liver cancer treatment and survival. *American Association for Cancer Research; The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved (AACR)*, San Francisco, CA, USA. Sep 2019.
16. Chakraborty P, Norris AH, Huber-Krum S, Garver S, **Hood RB**, Banda V, Turner AN. An assessment of risk factors for HSV-2 infection in Malawian women using two classifications of the HerpeSelect 2 test. *International Society for Sexually Transmitted Diseases Research (ISSTD)*, Vancouver, Canada. Jul 2019.

17. **Hood RB**, Turner HA, Huber S, Lancaster KE, Mwapasa V, Poindexter T, Nampondeni P, Esber A, Norris AH. Acceptability and uptake of self-collected vaginal samples for HPV testing in rural Malawi. *International Union against Sexually Transmitted Infections (IUSTI)*, Dublin, Ireland. Jun 2018.
18. **Hood RB**, Early RB, Weber Z, Schwartzbaum J, Ross S, Rosemurgy A, Harris R. Diverging rates of Creutzfeldt-Jakob disease in Floridian men and women: 1988-2012. *Ohio Public Health Association (OPHA)*, Columbus, OH, USA. May 2018.
19. **Hood RB**, Stenc T, Vidika A, Nath S, Nath L, Banik S, Romeo J, Cook T. Self-reported health status and barriers to self-management of chronic diseases among an underserved community in rural Maine: preliminary findings. *American Public Health Association (APHA)*, Boston, MA, USA. Nov 2013.

RESEARCH EXPERIENCE

- Jan 2024-Aug 2024 **Epidemiologist**, Emory University, Rollins School of Public Health, Department of Epidemiology, Atlanta GA. Supervisor: *Audrey Gaskins, ScD*.
- Conducting mixture analyses to investigate the role of air pollution on reproductive health outcomes.
 - Conducting multi-omics analyses to investigate the role different omics layer on reproductive outcomes.
 - Conducting metabolomics analyses to investigate the role of environmental pollution and *in vitro* fertilization outcome.
 - Mentoring undergraduate, master, and doctoral students on a range of epidemiologic and statistical topics related to reproductive and environmental epidemiology.
- Jan 2022-Dec 2023 **Postdoctoral Trainee Fellow**, Emory University, Rollins School of Public Health, Department of Epidemiology, Atlanta, GA. Mentor: *Michele Marcus, PhD & Audrey Gaskins, ScD*.
- Conducted community-led research focusing on endocrine disrupting chemicals and a wide range of health outcomes.
 - Conducted metabolomics analyses to investigate the role of environmental pollution and *in vitro* fertilization outcome.
 - Assisted with grant writing for an R01, R24, and U24 focusing on endocrine disrupting chemicals and multiple health outcomes.
 - Led efforts to create a portal for participants to access their research data and a portal for researchers to request data from the Michigan PBB registry.
 - Mentored undergraduate, master, and doctoral students on a range of epidemiologic and statistical topics related to environmental epidemiology.
- Sep 2020-Dec 2021 **Postdoctoral Research Fellow**, Emory University, Rollins School of Public Health, Department of Epidemiology, Atlanta, GA. Mentor: *Audrey J. Gaskins, ScD*.
- Conducted multidisciplinary research focusing on environmental exposures and reproductive health outcomes among women undergoing *in vitro* fertilization.
 - Learned cutting edge research methods focusing on a new omics field, metabolomics.
 - Mentored master and doctoral students on epidemiologic research methods related to metabolomics and environmental exposures.

- Jul 2020
- Regional Coordinator**, ODH/OSU Coronavirus Study, Ohio Department of Health & The Ohio State University College of Public Health, Columbus, OH. Mentor: *Abigail N. Turner, PhD*.
- Coordinated resources and volunteer teams collecting biological samples as a part of a state-wide study of COVID-19 in Ohio, which produced a state government report.
 - Managed multiple teams of nurses and data extractors collecting data in the community and troubleshooted problems as they arose.
- Jan 2020-Aug 2020
- Graduate Research Associate**, Lancaster K-Group, The Ohio State University, College of Public Health, Columbus, OH. Mentor: *Kathryn Lancaster, PhD*.
- Conducted research related to opioid use disorder and gender differences in hepatitis C virus and syringe service programs.
 - Investigated and evaluated various cellphone applications and survey methods to conduct ecological momentary assessments.
- Aug 2017-Aug 2020
- Graduate Research Associate**, Ohio Policy Evaluation Network, The Ohio State University, College of Public Health, Columbus, OH. Mentor: *Alison H. Norris, MD PhD*.
- Conducted research related to access and utilization of reproductive health services including abortion and contraception and how these changed with changing state policies and regulations.
 - Utilized STATA to analyze data from a statewide survey of women of reproductive age in Ohio and assessed material deprivation in relation to health services access and measurement of stigmatized health services.
 - Utilized ArcGIS to conduct spatial analysis of access to abortion services in Ohio using state records.
 - Conducted in-depth in-person qualitative interviews with men of reproductive age in rural Appalachian Ohio to understand how social structures influence access and utilization of general and reproductive health services.
 - Assisted in the development and management of four community-based workshops to derive a model of the reproductive health system in urban Ohio using a system dynamics approach.
- Dec 2017-May 2019
- Graduate Research Associate**, Opioid Innovation Fund, The Ohio State University, College of Public Health, Columbus, OH. Mentor: *William J. Martin II, MD*.
- Managed several aspects of the grant program, including but not limited to: application guidelines and submission, award notification, and yearly progress and close-out reports.
 - Created a grant scoring system based on the National Institute of Health R01 scoring system and assisted in the assignment of reviewers to grants to reduce conflicts of interest.
 - Facilitated workshops related to the Opioid Innovation Fund to facilitated interest and applications across university.

- Jun 2017-Aug 2017 **Graduate Research Associate**, Center for Excellence in Regulatory Tobacco Science, The Ohio State University, Columbus, OH. Mentor: *Amy Ferketich, PhD*.
- Utilized SAS to analyze data collected from a survey of individuals with lung cancer.
 - Assisted with the development of a survey to understand tobacco use in individuals with mental health disorders.
- Aug 2015-Jul 2016 **Graduate Research Assistant**, Workplace Health Group, The University of Georgia, College of Public Health, Athens, GA. Mentor: *Mark Wilson, HSD*.
- Utilized SAS and RStudio to analyze data collected from surveys investigating workplace health measures including use of worksite wellness programs, accessibility of healthy food near the worksite, and employee health behaviors.
 - Created reports on worksite wellness using survey data and created a scoring metric to allow for cross-comparison between workplaces in an office setting.
- May 2015-Jul 2015 **Student Intern**, Regional Trauma Advisory Committee for Trauma Region 10, Athens Regional Medical Center, Athens, GA. Mentor: *Nina Cleveland, PhD*.
- Created in-depth surveys to assess the readiness and compliance of emergency medical services Georgia to national standards.
 - Utilized ALOHA, a hazard modeling program, to demonstrate the necessity of emergency medical services to respond effectively to technical disasters.
- Jan 2015-Dec 2015 **Trainee**, Cancer Working Group, The University of Georgia, College of Public Health, Athens, GA. Mentor: *Sarah Wagner-Robb, PhD*.
- Attended biweekly meetings to discuss cancer epidemiology and current and planned analyses for the research group.
 - Provided feedback on cancer related manuscripts being written by doctoral students in the research group.
 - Explored cancer related projects including liver cancer and exposure to harmful algal blooms and lung cancer and exposure to particulate matter, the latter of which was developed into a master thesis.
- Aug 2014-Jul 2015 **Graduate Assistant**, Student Affairs, The University of Georgia, College of Public Health, Athens, GA. Mentor: *Heather McEachern, ABJ*.
- Provided administrative support to the College of Public Health's Office of Student Affairs.
 - Managed and updated student files in compliance with university and federal regulations.

TEACHING EXPERIENCE

Graduate Level Teaching

Aug 2023-Dec 2023

Primary Instructor, *Introduction to Epidemiology and Biostatistics*, Emory University, School of Medicine, Genetic Counseling Training Program.

Oct 2022-Dec 2022

Co-Primary Instructor, *Introduction to Epidemiology and Biostatistics*, Emory University, School of Medicine, Genetic Counseling Training Program.

Aug 2015-Dec 2015 **Tutor**, *Principles of Biostatistics II*, The University of Georgia, College of Public Health, Instructor: Ye Shen, PhD.

Aug 2015-Dec 2015 **Tutor**, *Principles of Epidemiology II*, The University of Georgia, College of Public Health, Instructor: Sarah Wagner-Robb, PhD.

Undergraduate Level Teaching

Jan 2024- **Primary Instructor**, *Experimental Epidemiology*, Emory University, College of Arts & Sciences, Center for the Study of Human Health.

Aug 2023-Dec 2023 **Primary Instructor**, *Critical Evaluation of Epi*, Emory University, College of Arts & Sciences, Center for the Study of Human Health.

Jan 2023-May 2023 **Primary Instructor**, *Critical Evaluation of Epi*, Emory University, College of Arts & Sciences, Center for the Study of Human Health.

Aug 2019-Dec 2019 **Primary Instructor**, *Honors Case Study in Public Health*, The Ohio State University, College of Public Health.

Jan 2019-May 2019 **Teaching Assistant**, *Introduction to Global Health*, The Ohio State University, College of Public Health, Instructor: Susan Olivo-Marston, PhD.

Jan 2018-May 2018 **Teaching Assistant**, *Introduction to Global Health*, The Ohio State University, College of Public Health, Instructor: Amy Ferketich, PhD.

Jan 2016-May 2016 **Primary Instructor**, *Advanced Data Management*, Baldwin Wallace University, Department of Public Health.

Jan 2016-May 2016 **Primary Instructor**, *Introduction to Public Health*, Baldwin Wallace University, Department of Public Health.

Jan 2015-May 2015 **Teaching Assistant**, *Introduction to Public Health*, The University of Georgia, College of Public Health, Instructor: Nina Cleveland, PhD.

Aug 2014-Dec 2014 **Teaching Assistant**, *Introduction to Public Health*, The University of Georgia, College of Public Health, Instructor: Nina Cleveland, PhD.

Aug 2012-Dec 2012 **Tutor**, *Principles of Biology I*, Baldwin Wallace University, Department of Biology, Instructor: Jacqueline Morris, PhD.

Jan 2011-May 2011 **Lab Assistant**, *Principles of Biology I*, Baldwin Wallace University, Department of Biology, Instructor: Jacqueline Morris, PhD.

Graduate Guest Lectures

Oct 2015 **Guest Lecturer**, Public Health Crises and Disaster Management, The University of Georgia, College of Public Health, Instructor: Nina Cleveland, PhD.

Lecture Title:

- “Graniteville South Carolina accident: Modeling environmental disasters”

Undergraduate Guest Lectures

- Nov 2018 **Guest Lecturer**, *Introduction to Global Health*, The Ohio State University, College of Public Health, Instructor: Susan Olivo-Marston, PhD.
Lecture Titles:
- “Environmental Health”
 - “Environmental Policies; Class Activity & Discussion”
 - “Maternal Morbidity & Mortality”
 - “Global Climate Change”
 - “Overlooked Public Health Problems”
- Sep 2018 **Guest Lecturer**, *Introduction to Global Health*, The Ohio State University, College of Public Health, Instructor: Susan Olivo-Marston, PhD.
Lecture Titles:
- “Sustainable Development Goals”
 - “Communicable Disease”
 - “Noncommunicable Disease”
 - “Health Status Indicators”
- Mar 2018 **Guest Lecturer**, *Introduction to Global Health*, The Ohio State University, College of Public Health, Instructor: Amy Ferketich, PhD.
Lecture Titles:
- “Maternal Morbidity & Mortality”
 - “Global Climate Change”
 - “Overlooked Public Health Problems”

MENTORSHIP

Graduate

1. Felrice J. Master of Public Health Thesis: *Epigenetic modifications associated with PBB-153 elimination rate in a Michigan cohort: a pilot study*. Chair: Marcus M. Committee Members: **Hood RB**, Terrell M. Emory University, Rollins School of Public Health. Apr 2024.
2. Wolfe J. Master of Public Health Thesis: *Evaluating weight loss as a strategy for the elimination of polybrominated biphenyl (PBB-153) in an exposed population and an assessment of diet quality and socioeconomic status*. Chair: Marcus M. Committee Members: Terrell M, **Hood RB**. Emory University, Rollins School of Public Health. Apr 2024.
3. Amilia A. Master of Public Health Thesis: *Association between polybrominated biphenyls (PBBs) and mortality*. Chair: Marcus M. Committee Members: **Hood RB**, Terrell M. Emory University, Rollins School of Public Health. Apr 2023.
4. Dunkley V. Master of Public Health Thesis: *Assessing the relationship between brominated flame retardant exposure and osteoarthritis development*. Chair: Marcus M. Committee Members: **Hood RB**, Terrell M. Emory University, Rollins School of Public Health. Apr 2023.
5. Schumacher A. Master of Public Health Thesis: *Assessing sex-specific associations between polybrominated biphenyl exposure and cardiovascular disease in the Michigan PBB Registry*. Chair: Marcus M. Committee Members: **Hood RB**, Terrell M. Emory University, Rollins School of Public Health. Apr 2023.

Undergraduate

1. Singh S. Research Thesis: *Do firefighters and police officers in the state of Ohio have a higher incidence of certain cancer types compared to the general population?* Chair: Olivo-Marston S. Committee Members: Adetona O, **Hood RB**. The Ohio State University, College of Public Health. Apr 2021.

GRANT SUPPORT

Ongoing Grant Support

U24ES028528 Marcus/Pearson (PI) 04/2024-03/2029

The Michigan PBB Cohort: A unique highly exposed community followed for 50 years and three generations. Fifty years ago, Michigan residents were exposed to polybrominated biphenyls (PBBs), a persistent endocrine-disrupting chemical through their food and work. The Michigan PBB environmental epidemiology cohort (EEC) now includes over 75000 individuals and three generations but lacks representation from Michigan's urban residents and younger people who were exposed to PBB in childhood or *in utero*, both of whom have unique exposures and health concerns. The diversification of the Michigan PBB EEC and expansion of data sharing will allow future researchers to address health disparities, particularly within the context of the exposome.

Role: *Co-Investigator (30% FTE)*

Source: National Institute of Environmental Health Sciences (NIEHS)

Completed Grant Support

R01ES025775 Marcus (PI) 05/2022-04/2023

Collaborative Research and Action: Empowering an Exposed Community

According to the US EPA, persistent organic pollutants (POPs) are toxic chemicals that adversely affect human health and the environment, that persist for long periods of time in the environment and the human body, and that accumulate up the food chain. The primary goals of this project are 1) to evaluate a method aimed at accelerating the elimination of POPs from exposed individuals 2) to explore the heritability of changes in gene expression associated with POP exposure. This project is a collaborative effort among the affected community, public health officials, and scientists that will work to empower exposed individuals, their families, and health care providers to address health concerns and the health of future generations.

Role: *Other significant contributor*

Source: National Institute of Environmental Health Sciences (NIEHS)

T32ES012870 Marsit (PI) 07/2004-06/2022

Graduate and Postdoctoral Training in Environmental Health Science and Toxicology

The primary goal of the T32 training program is to provide training for the next generation of leaders in the field of environmental health sciences through training in multi- and transdisciplinary research.

Role: *Postdoctoral Trainee Fellow*

Source: National Institute of Environmental Health Sciences (NIEHS)

Michigan Humanities Grant Montoye (PI) 10/2022-06/2022

The PBB Disaster at 50: A Conference to commemorate and learn from the Poisoning of Michigan. In 1973 Michigan Chemical Company accidentally shipped a flame retardant, polybrominated biphenyl (PBB), to a livestock feed mill resulting in one of the largest agricultural disasters and episodes of food contamination in US history. Yet, there is no memorial or monument to commemorate the mix-up. For many, the event has been forgotten. Only now, fifty years later, are long term consequences of PBB toxicity being discovered. The conference will commemorate the 50th anniversary of the PBB mix-up in Michigan. As George Santayana said, "those who don't learn from the past are condemned to repeat it."

Role: *Scientific Subject Matter Expert*

Source: Michigan Humanities Council

R00ES026648 Gaskins (PI) 02/2019-04/2022
 Maternal Exposure to Air Pollution and Early Pregnancy Outcomes
 The overall goal of the Maternal Exposure to Air Pollution and Early Pregnancy Outcomes study was to advance the science around air pollution during early pregnancy, and the complex metabolic pathways underlying this exposure and ultimately impact pregnancy outcomes.
 Role: *Postdoctoral Research Fellow*
 Source: National Institute of Environment Health Sciences (NIEHS)

CCTS Summer Scholarship Hood/Felix (PIs) 05/2019-08/2019
 Neighborhood Deprivation Index and Health Disparities in Liver Cancer
 Liver cancer is a growing concern in the United States. The effects of neighborhood deprivation have not been explored with relations to cancer and more specifically liver cancer. This study explored the effects of neighborhood deprivation in liver cancer characteristics, treatment course, and mortality. The study enhanced my skills and knowledge of methods and cancer research.
 Role: *Co-PI*
 Source: OSU Center for Clinical & Translational Science

HONORS & AWARDS

| | |
|--------------|--|
| 2017-Present | Delta Omega Public Health Honor Society βχ Chapter |
| 2018-2019 | OSU College of Public Health Fellowship |
| 2016-2017 | OSU Graduate School Fellowship |
| 2015 | UGA 15 from Fall 2015 |
| 2014 | Cum Laude, Baldwin Wallace University |
| 2010-2014 | Baldwin Wallace University Trustee Fellowship |

OTHER ACADEMIC EXPERIENCES

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|--------------------|--|
| Sep 2021-Present | Member , Environmental Metabolomics and Exposomics (EMERGE) Research Group, Emory University, Atlanta, GA. |
| Sep 2020-Jun 2022 | Mentor , Emory Undergraduate Journal Club, Emory University, Atlanta, GA. |
| Jul 2020-Jun 2022 | Young Alumni Chair/Board Member , College of Public Health Alumni Society, The Ohio State University, College of Public Health, Columbus, OH. |
| May 2017-Dec 2020 | Committee Member , Case Study Competition Committee, The Ohio State University, College of Public Health, Columbus, OH. |
| Oct 2019-Jun 2020 | Committee Member , College of Public Health Search Committee, The Ohio State University, College of Public Health, Columbus, OH. |
| Oct 2019-Jun 2020 | Committee Member , College of Public Health Policy & Advocacy Committee, The Ohio State University, College of Public Health, Columbus, OH. |
| Aug 2019-June 2020 | Student Representative , College of Public Health Alumni Society, The Ohio State University, College of Public Health, Columbus, OH. |

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| Apr 2019-May 2020 | President , Public Health Graduate Student Association, The Ohio State University, College of Public Health, Columbus, OH. |
| Feb 2017-May 2020 | Coach , National Public Health Scholar Bowl Team, The Ohio State University, College of Public Health, Columbus, OH. |
| Jul 2018-Jun 2019 | Committee Member , Harm Reduction Training Committee, The Ohio State University, College of Public Health, Columbus, OH. |
| Jul 2018-Jun 2019 | Committee Member , Harm Reduction Conference Planning Committee, The Ohio State University, College of Public Health, Columbus, OH. |
| May 2018-Mar 2019 | Vice-President , Public Health Graduate Student Association, The Ohio State University, College of Public Health, Columbus, OH. |
| Mar 2015-Apr 2016 | Coach , National Public Health Scholar Bowl Team, Baldwin Wallace University, Department of Public Health, Berea, OH. |
| Dec 2014-Dec 2015 | President , Graduate Public Health Association, The University of Georgia, College of Public Health, Athens, GA. |
| Aug 2014-Nov 2014 | General Member , Graduate Public Health Association, The University of Georgia, College of Public Health, Athens, GA. |

PROFESSIONAL MEMBERSHIP & PEER-REVIEW EXPERIENCE

Professional Societies & Working Groups

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|--------------|--|
| 2022-Present | International Society for Environmental Epidemiologists (ISEE) |
| 2021-Present | Metabolomics Association of North America (MANA) |
| 2018-2020 | Ohio Public Health Association (OPHA) |
| 2018-2019 | Society for Epidemiological Research (SER) |
| 2014-2015 | Council of State & Territorial Epidemiologists (CSTE) |
| 2013-2014 | American Public Health Association (APHA) |

Journal Editorial Board

| | |
|-----------|-------------------------------|
| 2018-2020 | Ohio Journal of Public Health |
|-----------|-------------------------------|

Invited Reviewer

Environment International
Environmental Research
Environmental Science & Technology
Fertility & Sterility
Journal of Assisted Reproduction and Genetics

Journal of Environmental Science and Health, Part C

Maternal & Child Health

Ohio Journal of Public Health

Perspectives on Sexual and Reproductive Health

Population Research and Policy Review

Reproductive Biomedicine Online

Science of the Total Environment