

Samantha J. Bauer, Ph.D., M.S., B.S.

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Faculty Appointments

Faculty Appointments at Wayne State

07/2023 - Present Assistant Professor (Clinical), School of Medicine, Department of Family Medicine and Public Health Sciences, Division of Population Health Sciences

Hospital or Other Professional Appointments

05/2021 - 06/2023 Research Assistant, Translational Sciences and Clinical Research Innovation, Wayne State University, Detroit, MI, United States of America

01/2019 - 05/2021 Epidemiologist, Detroit Health Department, Detroit, MI, United States of America

Education

Education

07/2016 - 05/2019 Ph.D., Epidemiology
Michigan State University, East Lansing, MI, United States of America
Dissertation: "Contributions to the epidemiology of heroin use"

08/2014 - 05/2016 M.S., Epidemiology
Michigan State University, East Lansing, MI, United States of America
Thesis: "An epidemiologic study of comorbid cardiovascular disease, major depressive disorder, and perceived discrimination among Black Americans"

08/2010 - 05/2014 B.S., Psychology
University of Michigan, Ann Arbor, MI, United States of America

Additional Training

07/2018 - 06/2018 NIDA T32 Predoctoral Fellow
Michigan State University, East Lansing, MI, United States of America
National Institute of Drug Abuse T32 Training Grant
Principal Investigator: Dr. James C. Anthony

Professional Society Memberships

09/2023 - Present Association for Women in Science

09/2023 - Present American Public Health Association

09/2023 - Present Women in Medicine and Science (WIMS) at Wayne State University

2017 - 2018 College on Problems of Drug Dependence

Honors / Awards

01/2024	Silver in Responsible Technology - Best Use of Data, The Anthem Awards <i>The PHOENIX Prevalence Profiler won Silver in the annual Anthem Awards.</i> https://www.anthemawards.com/winners/list/entry/#!/responsible-technology/best-use-of-data/phoenix-project-prevalence-profiler/1972/-1/459259
01/2023	Information is Beautiful Award in Science, Technology, & Health, Data Visualization Society https://www.informationisbeautifulawards.com/showcase/6533-phoenix-project-prevalence-profiler
2023	Honored Mentor of Phi Beta Kappa Member, Wayne State University
2018	Women & Sex/Gender Junior Investigator Travel Award, College on Problems of Drug Dependence

Teaching

Teaching at Wayne State University

Graduate (Masters, Ph.D., Pharm.D., etc.)

01/2024 - 05/2024	FPH 7015 Biostatistics 1, Didactic / Traditional Course Teaching, Lectures, Instructor
08/2023 - 12/2023	FPH 7240 Epidemiology, Didactic / Traditional Course Teaching, Lectures, Instructor
05/2023 - 08/2023	FPH 7240 Epidemiology, Didactic / Traditional Course Teaching, Lectures, Instructor
05/2022 - 08/2022	FPH 7240 Epidemiology, Didactic / Traditional Course Teaching, Lectures, Instructor

Undergraduate

08/2022 - 12/2022	PH 3300 Epidemiology, Didactic / Traditional Course Teaching, Lectures, Instructor
01/2022 - 05/2022	PH 3300 Epidemiology, Didactic / Traditional Course Teaching, Lectures, Instructor
08/2021 - 12/2021	PH 3300 Epidemiology, Online Instruction, Instructor
01/2021 - 05/2021	PH 3300 Epidemiology, Online Instruction, Instructor
08/2020 - 12/2020	PH 3300 Epidemiology, Online Instruction, Instructor

Teaching at Other Institutions

Undergraduate

2020	Michigan State University, EPI 390 Disease in Society, Online Instruction, Instructor
2018	Michigan State University, EPI 390 Disease in Society, Online Instruction, Instructor
2017	Michigan State University, EPI 390 Disease in Society, Online Instruction, Instructor

Research

Funded Research

Funded

Role: Co-Investigator, Percent Effort: 10 % DE-EE0010413

Caisheng Wang (Principal Investigator)

Title: Data-driven Community-centered Resilience Assessment and Planning Toolkit for Nexus of Energy and Water (DCRAP-NEW)

Sponsor Name: US Department of Energy

04/2023 - 03/2027

Total Award: \$ 750,022, Federal

Role: Co-Investigator, Percent Effort: 8 %
Christopher Kassotis (Principal Investigator)
Title: Assessment of Underlying Molecular Mechanisms Promoting Adipogenic Outcomes in Complex Mixtures
Sponsor Name: Environmental Protection Agency

09/2022 - 08/2025
Total Award: \$ 1,087,500, Federal

Role: Co-Investigator, Percent Effort: 50 % 5 P50 MD017351
Title: ACHIEVE GREATER: Addressing Cardiometabolic Health Inequities by Early Prevention in the Great Lakes Region
Sponsor Name: National Insitute of Health / National Institute on Minority Health and Health Disparities

09/2021 - 09/2026
Total Award: \$ 18,154,012, Federal

Role: Co-Investigator, Percent Effort: 7.5 % 1 R01 CE003362-01
Title: Examining the iatrogenic effect of law enforcement disruptions to the illicit drug market on overdose in the surrounding community, Percent time effective: March 2024
Sponsor Name: Centers for Disease Control and Prevention

09/2021 - 09/2024
Total Award: \$ 1,087,500, Federal

Role: Co-Investigator, Percent Effort: 10 %
Title: Mobile Testing for Blood Lead Levels to Combat lead Exposure
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 100,000, State / Local
Role: Co-Investigator, Percent Effort: 2 %
Title: Syringe Services Program
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 90,000, State / Local
Role: Co-Investigator, Percent Effort: 30.5 %
Title: Mobile Health Collaboration
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 3,367,591, State / Local
Role: Co-Investigator, Percent Effort: 20 %
Title: HIV Prevention – Emergency Room Testing
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 252,030, State / Local
Role: Co-Investigator, Percent Effort: 7.5 %
Title: Cardiovascular Disease Prevention and Management – CVD 1817
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 1,822,775, State / Local

Role: Co-Investigator, Percent Effort: 3 %
Title: Ending the HIV Epidemic (EHE) – HIV and Prevention
Sponsor Name: Michigan Department of Health and Human Services

09/2022 - 09/2023
Total Award: \$ 40,000, State / Local

Role: Co-Investigator, Percent Effort: 30 %
Title: COVID-19 Vaccination for Underserved Populations: Michigan Vaccination Partners (MVP)
Sponsor Name: Michigan Department of Health and Human Services

10/2021 - 09/2024
Total Award: \$ 800,000 per year , State / Local

Role: Co-Investigator, Percent Effort: 40 %
Title: Michigan Mobile Health Corps Program
Sponsor Name: Michigan Department of Health and Human Services

09/2021 - 09/2022
Total Award: \$ 4,000,000, State / Local

Publications

Peer Reviewed

Key: CV Holder, Corresponding Author[^], Co-First Author#, Contributor~, *Junior Faculty*, Student*, Trainee

Original Observations

1. Gleason-Comstock, J., Calhoun, C. B., Locke, B. J., Boorle, Nvld, Cobty, K., McKenney, T., Uddin, K. O., **Bauer, S. J.**, Xu, J.. People who use drugs engagement in substance use disorder services and harm reduction: evaluation, challenges and future direction of a community-based intervention. *Subst Abuse Treat Prev Policy*. 05/01/2024;19(1):24. PubMed PMID: 38689339. doi: 10.1186/s13011-024-00601-1.
2. Cannoy CN, **Bauer SJ**, Prakash K, Excell S, Ghosh S, Lundahl LH, Ledgerwood DM. Response to health warnings on cigarette packs as a predictor of future smoking among current tobacco smokers.. *Addictive behaviors*. 09/01/2023;144:107717. PubMed PMID: 37060882.
3. Vohra V, Lelak K, Neuman MI, Toce MS, Zhang L, Korzeniewski SJ, **Bauer S**, Welch RD, Sethuraman U. Pediatric hand sanitizer exposures reported to United States poison centers, 2017-2021.. *Clinical toxicology (Philadelphia, Pa.)*. 06/01/2023;61(6):463-469. PubMed PMID: 37358035.
4. Varun Vohra, Alisar Aljundi, Hala Tokko, Ryan Herc, Jewel Konja, Ali Khanafer, **Samantha Bauer**, Victoria Tutag-Lehr. Retrospective evaluation of the effect of oral acetylcysteine on INR in the setting of acetaminophen overdose. *Clinical Toxicology*. 05/2023;61(Sup1):1-129. doi: 10.1080/15563650.2023.2192024.
5. Struble CA, **Bauer SJ**, Lundahl LH, Ghosh S, Ledgerwood DM. Electronic cigarette use among sexual minority and heterosexual young adults in a U.S. national sample: Exploring the modifying effects of advertisement exposure.. *Preventive medicine*. 02/01/2022;155:106926. PubMed PMID: 34929222.
6. Bezold C, **Bauer SJ**, Buckley JP, Batterman S, Haroon H, Fink L. Demolition Activity and Elevated Blood Lead Levels among Children in Detroit, Michigan, 2014-2018.. *International journal of environmental research and public health*. 08/19/2020;17(17). PubMed PMID: 32824913.

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Review Articles

1. Robert R. Ehrman, Adrienne N. Malik, Brian D. Haber, Seth R. Glassman, Cassidy A. Bowen, Steven J. Korzeniewski, **Samantha J. Bauer**, Robert L. Sherwin. The role of place-based factors and other social determinants of health on adverse post-sepsis outcomes: a review of the literature. *Frontiers in Disaster and Emergency Medicine*. 03/2024;2. doi: 10.3389/femer.2024.1357806.

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Letters to the Editor

1. Michael J. Twiner, Nora N. Akcasu, Bethany Foster, Ijeoma Nnodim Opara, **Samantha J. Bauer**, Steven J. Korzeniewski, Robert D. Brook, Phillip D. Levy. Origins of a novel mobile health unit program to prevent cardiovascular disease in vulnerable communities. *The Journal of Clinical Hypertension*. 03/2024. PubMed PMID: 38501742. doi: <https://doi.org/10.1111/jch.14800>.

Non-Peer Reviewed

Key: CV Holder, Corresponding Author[^], Co-First Author#, Contributor~, *Junior Faculty*, Student*, Trainee

Original Observations

1. **Samantha Bauer**, Samantha Bell. Detroit Overdose Surveillance, 2012-2020. City of Detroit Health Department. 04/2021. *A public health report*.

Presentations

Podium

Regional / Local

1. Mallory A. Lund, Jenna M. Vora, Kirsten Osborne, Sam M. Streberger, **Samantha J. Bauer**. Contributions to the Descriptive Epidemiology of Opioid Prescribing in Michigan, 2019-2022. Michigan Family Medicine Research Day; 05/2024; Detroit, MI, United States of America
MPH Student presentation in which I supervised.

Posters

International / National

1. **Bauer, S.**, Foster, B., Braman, L., Frederick, D., Begum, H., Kapas, M., Kurian, P., Akcasu, N., Rorabacher, C., Wesner, N., Gould, J., Lund, M., Korzeniewski, S. Rapid HIV testing volume in emergency department settings in Detroit, Michigan, since the start of the COVID-19 pandemic. American Public Health Association Conference; 11/2023; Atlanta, GA, United States of America
2. Dawood, K., Foster, B., Gould, J., Strnad, K., Harris, D., Mehmood, D., Zorzan, Y., Perez, V., Rehman, S., Al-Sahlawi, S., Varghese, A., **Bauer, S.**, Korzeniewski, S., Levy, P. Social vulnerability and blood pressure trends among participants of a chronic disease management program. American Public Health Association Conference; 11/2022; Boston, MA, United States of America
3. **Bauer, S.**, Anthony, J. Male-female differences in heroin incidence. Annual College on Problems of Drug Dependence; 06/2018; San Diego, CA, United States of America
4. Boinapally, P., **Bauer, S.**, Barondess, D., Anthony, J. United States Mutoscope View of Newly Incident Heroin Use, 2002-2013. Annual College on Problems of Drug Dependence Conference; 06/2018; San Diego, CA, United States of America
5. **Bauer, S.**, Thompson, C., Vsevolozhskaya, O., Anthony, J. A Bayesian approach to estimating heroin incidence age-by-age. Annual College on Problems of Drug Dependence Conference; 06/2017; Montreal, QC, Canada

6. Barondess, D., **Bauer, S.**, Yeh, H., Anthony, J. Sex Differences in Heroin Use: United States, 2002-2014. Annual College on Problems of Drug Dependence Conference; 06/2017; Montreal, QC, Canada

Invited Lectures

Regional / Local

1. **Samantha Bauer**. What is Epidemiology?. US Healthcare: Policy and Economics (Course); 11/2023; Detroit, MI, United States of America
Undergraduate course guest lecture within the Department of Economics.
2. **Samantha Bauer**, Steven Korzeniewski. The PHOENIX program: how to leverage public data to reap public health Benefits under a health equity framework. Urban Health Research Conference; 04/2023; Detroit, MI, United States of America
College of Nursing hosted at Wayne State University.
3. Phillip Levy, **Samantha Bauer**, Rafael Wright. Detroit Community Profile and PHOENIX (Population Health Outcomes and Information Exchange). Detroit Collaboration for Equitable Health; 11/2022; Detroit, MI, United States of America
Engagement Council Meeting
4. **Samantha Bauer**. What is Epidemiology?. US Healthcare: Policy and Economics (Course); 11/2022; Detroit, MI, United States of America
Undergraduate course guest lecture within the Department of Economics.
5. **Samantha Bauer**. Epidemiology in Local Public Health. Graduate Epidemiologists at Michigan State: Alumni Career Connection Series; 04/2021; East Lansing, MI, United States of America
6. **Samantha Bauer**. Adherence to Testing Recommendations and Incident Elevated Blood Lead Levels Among Detroit Children. Michigan Public Health Association Epidemiology Section; 03/2020, MI
Accepted presentation for conference that was cancelled due to Novel Coronavirus pandemic.
7. **Samantha Bauer**. Heroin & Opioid Use Epidemiology. Epidemiology (Course); 03/2019; Detroit, MI, United States of America
Undergraduate course guest lecture for introductory epidemiology class at Wayne State University.
8. **Samantha Bauer**. Heroin & Opioid Use Epidemiology. Disease in Society (Course); 03/2018; East Lansing, MI, United States of America
Undergraduate course guest lecture for Disease in Society course at Michigan State University.
9. **Samantha Bauer**. Heroin & Opioid Use Epidemiology. Disease in Society (Course); 03/2017; East Lansing, MI, United States of America
Undergraduate course guest lecture for Disease in Society course at Michigan State University.
10. **Samantha Bauer**. Study Design & Communicable Disease. Communicable Disease Epidemiology (Course); 11/2016; East Lansing, MI, United States of America
Graduate course guest lecture within the Department of Epidemiology & Biostatistics at Michigan State University.

Other

Regional / Local

1. Michigan Health Interoperability Virtual eLaboratory (MiHIVE) Summer Workshop. Workshop; 06/2024; Ann Arbor, MI, United States of America
Contributed to workshop activities aimed at developing an online laboratory of health information management resources.
2. AFFORDABLE, RELIABLE, RESILIENT, AND RENEWABLE ENERGY (ART-E)
A RACER DCRAPT Workshop. DOE RACER Workshop; 05/2024; Detroit, MI, United States of America
Contributed to the DOE RACER project workshop, required of the grant.
Sponsor: US Department of Energy
Project Title: Data-driven Community-centered Resilience Assessment and Planning Toolkit for Nexus of Energy and Water
Role: Co-Investigator

Service

Wayne State University Service

University

- 02/2022 Member, Wayne State University & Henry Ford Health Biostatistics Journal Club, Wayne State University
- 05/2021 - 05/2023 Member, Biostatistics, Epidemiology, and Research Design (BERD), Integrative Biosciences Center (IBio)
*Served as Co-Manager 5/2022 - 5/2023.
BERD provided core services across the university, but has since closed out Spring/Summer 2023.*
- 05/2021 Full Member, Population Health Outcomes Information Exchange (PHOENIX), Integrative Biosciences Center (IBio)
*Serve as Operations Director, Epidemiologist & Biostatistician, and GIS Specialist.
Hyperlink: <https://www.phoenix.wayne.edu>*

School / College

- 02/01/2024 Judge, Medical Student Research Symposium, School of Medicine
- 09/2023 Board Member, Women in Medicine and Science (WIMS), School of Medicine
Executive committee member.

Department / Division

- 09/2023 Member, Program Evaluation Committee, Department of Family Medicine and Public Health Sciences
MPH program evaluation.
- 02/2022 Member, Global Health Research Collaborative, Integrative Biosciences Center (IBio)
Provide and present educational materials for summer workshop series.
- 09/2021 - 08/2022 Member, PH 4100/4150 Public Health Practicum, College of Liberal Arts and Sciences
Key contact for undergraduate students in (PH) 4100/4150-Public Health Practicum.

Other Professionally Related Service

Professional

- 01/2024 Co-Chair - Early Stage Investigator, Health Equity Action Network (HEAN) Publication Committee, Research Coordinating Center to Reduce Disparities in Multiple Chronic Diseases
As part of "ACHIEVE GREATER: Addressing Cardiometabolic Health Inequities by Early Prevention in the Great Lakes Region" (Grant Number: 5 P50 MD017351, PI: P.D. Levy, Sponsor: NIH/NIMHD)

Consulting

- 11/2021 - Present Consultant, Epidemiology Consultation, Urban Health Solutions, LLC

Government

- 06/2020 - 12/2020 Moderator, Fetal and Infant Mortality Review, Detroit Health Department
Case Review Team
- 01/2019 - 05/2021 Member, Fetal and Infant Mortality Review, Detroit Health Department
Case Review Team Member

Grant Review Committees

Regional / Local

11/2023 Reviewer, Biobank Governance Board, Wayne State University
Review proposals for sample requests.

Peer-Reviewed Journals

Manuscript Review

06/2023 Qeios
11/2022 BMC Public Health