



## **Department of Population and Public Health Sciences**

### **Annual Report**

July 1, 2018 – June 30, 2019

Marietta Orłowski, Ph.D., MCHES, CPH  
Interim Chair

# 1 Statement from the Chair

Faculty and staff of the education center offer the Master of Public Health degree along with six certificate programs. Fifty-one students, including six dual degree students (MD/MPH), enrolled during the 2018-2019 academic year. The program generated 1,082 graduate credit hours and graduated 26 MPH students. Drs. Redko and Khalil also offered online undergraduate general education classes in global health and climate change. These classes generated 3,617 credit hours and are part of the department's plan to increase student awareness of public health disciplines and careers. The education center team also prepared for an October 2019 Council on Education for Public Health (CEPH) accreditation site visit; the team updated several courses and submitted a preliminary self-study document in May.

The two department research and evaluation centers conducted work related to substance use, behavioral health, and disabilities. The faculty and staff of these centers operated 19 multi-year grants totaling over \$14.2 million dollars. The Substance Abuse Resources and Disability Issues' (SARDI) funders include Substance Abuse and Mental Health Services Administration (SAMSHA); National Institute on Disability, Independent Living, and Rehabilitation Research; Ohio Department of Mental Health and Addiction Services; and several local service contracts. The work of Center for Interventions, Treatment, and Addictions Research (CITAR) is funded by the National Institutes of Health, National Institute on Drug Abuse. The research teams made 19 national, state, and local presentations. A third independently funded research center, Fels Longitudinal Study, was transferred this year to the University of Texas School of Public Health under the direction of former department faculty Drs. Stefan Czerwinski and Miryoung Lee.

Looking forward, the vision of the department is to be recognized as the leader of population and public health initiatives within the university and across southwest Ohio. To achieve this vision, the department has started to operate in a more collaborative manner, where the expertise across the centers creates opportunities for learners and adds community value. Goals for the upcoming year include recruit and mentor new faculty, expand public health education programs, identify emerging public health career pathways, and expand the amount and type of department research.

## 2 Divisions/ Programs

Name of Division or Program	Director	Dates
Education Center		
Aerospace Medicine Certificate	Thomas Jarnot M.D., M.S.	2019
Emergency Public Health Certificate	Mark Gebhart M.D.	2016 – Present
Epidemiology Certificate	Sara Paton Ph.D.	2018 – Present
Global Health Certificate	Cristina Redko Ph.D.	2015 – Present
Health Care Management Certificate	John McAlearney Ph.D.	2003 – Present
Master of Public Health Program	Sara Paton Ph.D.	2015 – Present
Public Health Leadership Certificate	John McAlearney Ph.D.	2016 – Present
Center for Interventions, Treatment, and Addictions Research (CITAR)	Robert Carlson Ph.D.	2004 – Present
Reach Out of Montgomery County	Sharon Sherlock D.H.A., M.S.A., B.S.N., RN	1998 - Present
Substance Abuse Resources and Disability Issues (SARDI)	Jo Ann Ford M.R.C.	2018 – Present

## 3 Fully Affiliated Faculty

Name and Academic Position	Center Affiliation	Research Interests
Robert G. Carlson Ph.D., Professor	CITAR	Ethnographic & mixed methods; the epidemiology of non-medical drug use; natural history research; HIV prevention; substance abuse treatment; social media research related to substance abuse; health services research; political economy of substance use
Timothy N. Crawford Ph.D., M.P.H., Assistant Professor	Education Center	HIV & Aging; HIV engagement in care; multi-morbidity patterns; wellbeing among undergraduate students; analysis of existing data
Raminta Daniulaityte Ph.D., Associate Professor	CITAR	Substance use epidemiology; opioid use disorders and health-related risks; emerging cannabis use practices and trends; social determinants of health; mixed methods research and trans-disciplinary research; web-based research methods; social media data analytics for public health surveillance
Sylvia A. Ellison, M.A., M.P.H., Research Assistant Professor	Education Center	Maternal & child health, infant mortality, community health assessment
Jo Ann Ford M.R.C., Instructor	SARDI	Women with disabilities, including substance abuse, violence issues, & advocacy
Mark E. Gebhart M.D., Associate Professor	Education Center	Emergency public health; disaster medicine; zoonotic disease; Global One Health
Thomas F. Jarnot M.D., M.S.	Education Center	Human factors in aerospace accident investigation; aircrew flight training; enhancing flight surgeon pilot/patient rapport to optimize aviation safety

<b>Name and Academic Position</b>	<b>Center Affiliation</b>	<b>Research Interests</b>
Naila Khalil, M.B.B.S., Ph.D., M.P.H., CPH, Associate Professor	Education Center	Substance use education and treatment; disability; HIV prevention; mindfulness
Nicole Kinzler Ph.D., Assistant Professor	Education Center & SARDI	Substance use education and treatment; disability; HIV prevention; mindfulness
John McAlearney, Ph.D., Assistant Professor	Education Center	Electronic medical record data analysis; international health care system comparisons; health care applications for geographic information systems (GIS); health care costs; provider payment; community health centers & FQHCs; insurance & uninsurance issues; health care quality improvement; provider recruitment/retention; physician education
Marietta Orlowski Ph.D., MCHES, CPH, Associate Professor	Education Center	Risk reduction in children and adolescents; building capacity for community-based program evaluation; theoretical framework of public health programs and policy
Sara J. Paton Ph.D., CPH, Associate Professor	Education Center	Maternal and child health, health assessment, nutrition
Cristina Redko Ph.D., Associate Professor	Education Center	Global mental health
Sharon Sherlock D.H.A., M.S.A., B.S.N., RN, Assistant Professor	Reach Out of Montgomery County	Underserved populations; disparities in health
Sydney Silverstein Ph.D., Research Assistant Professor	CITAR	Cultural anthropology; medical anthropology; visual anthropology & visual research methods; drug cultures; drug abuse treatment; illicit economies; political economy of illicit drugs; material culture; collaborative research
Mary T. White M.Div., Ed.M., Ph.D., Professor	Education Center	Global health humanities, global palliative care, empathy, addictions and ethics

## 4 Teaching

### **Baccalaureate Courses - Taught**

Bio 4030 Health Care Ethics

PPH 2000 Global Health

PPH 2100 Climate Change and Health

### **Baccalaureate Courses - Guest Lectures**

Bio 1080 Introduction to Public Health

Bio 2100 Orientation Seminar in Biological Sciences

EES 4720 Epidemiology & Community Health

### **Graduate Courses - Taught**

ASM 7370 Aerospace Toxicology

ASM 7571 Aerospace Skills for Healthcare Providers I

ASM 7573 Aerospace Skills for Healthcare Providers III  
 ASM 7771 Fundamentals of Aerospace Medicine I  
 ASM 7773 Fundamentals of Aerospace Medicine III  
 ASM 7871 Space Medicine I  
 ASM 7873 Space Medicine III  
 ASM 7973 Aerospace Medical Research Project  
 FIN 7500 Financial Management of Health Service Organizations  
 PPH 6100 Biostatistics for Health Professionals  
 PPH 6200 Public Health Epidemiology  
 PPH 6300 Environmental Health  
 PPH 6400 Social & Behavioral Determinants of Health  
 PPH 6500 Health Resource Management & Policy  
 PPH 7150 Applied Epidemiology (Chronic Diseases)  
 PPH 7310 Public Health Ethics & Policy  
 PPH 7410 Community Assessment  
 PPH 7420 Health Program Planning & Evaluation  
 PPH 7430 Health Awareness and Advocacy Communication  
 PPH 7510 Strategic Leadership in Health Care Organizations  
 PPH 7520 Problems in Population Health  
 PPH 7640 Principles of Emergency Preparedness  
 PPH 7650 Public Health Crisis & Consequence Management  
 PPH 7660 Public Health Terrorism Preparedness  
 PPH 7920 Public Health Epidemiology II  
 PPH 7920 Applied Statistics Practicum  
 PPH 8110 Public Health Applied Practice Experience  
 PPH 8210 Public Health Integrative Learning Experience I  
 PPH 8220 Public Health Integrative Learning Experience II  
 PPH 8230 Public Health ILE Continued Credit

### **Thesis Committees**

R. Daniulaityte, PhD thesis committee member for Agne Jakavonyte-Akstiniene - PhD Dissertation Title: Cognitive and physical functioning and health care needs among elderly patients in hospice care settings. Lithuanian University of Health Sciences, Kaunas, Lithuania; July 2018.

### **Undergraduate Medical Education**

M1 Electives: Global Health Foundations I and Global Health Foundations II

M4 Electives:

- PPH 806 Literature and Medicine
- PPH 813 Future Directions in Global Health
- SMD 806 IHI Open School Basic Certificate in Quality and Safety)
- SMD 818 Addictions and Pain Management

Upstream Medicine: Capstone Assessments

**Continuing Medical Education (grand rounds, seminars)**

Paton, S. Infant Mortality and Social Determinants of Health Presentation to Premier Health employees, Dayton, OH. May, 2019.

Paton, S., & Ellison, S. CHA/CHNA (Community Health Assessment/ Community Health Needs Assessment) presentation at Ohio Public Health Combined Conference, Dublin, OH. May, 2018.

Paton, S. Presentation to lactation consultant course at Miami Valley Hospital on infant mortality, Dayton, OH. March, 2019.

**Other**

Paton, S., & Ellison, S. Collaborated in the development, implementation, and evaluation an Interprofessional Education (IPE) outbreak simulation exercise for students from five disciplines and three universities. The event included 120 students in the master of public health (Wright State), medical (Wright State), nursing (Wright State & Cedarville), pharmacy (Cedarville), and mental health (University of Dayton) programs.

Gebhart, M. Guest speaker for Phi Delta Epsilon (pre-medical society) at Miami University, Oxford, OH. March, 2019.

Paton, S. Guest lecturer on community health assessments via live video for MPH class at University of Haifa, Israel. March, 2019.

## 5 Scholarly Activity

**Funded Contracts**

Alcohol Drugs and Mental Health Services (ADAMHS). Paton, S. (Project Save Lead Evaluator), 2017-present, \$6,135.44. The objective of this grant is to increase Narcan distribution to first responders in Montgomery, Darke, and Preble Counties, Ohio.

LHD/WSU CHA Collaboration Project. Paton, S. (Co-I), Ellison, R. (Co-I), 2017-present, \$24,427.86. The primary objective of this project is to develop a regional Community Health Assessment (CHA) that will serve to coordinating local health departments (LHDs) and the hospitals systems.

Public Health - Dayton & Montgomery County. Epidemiology and Office of the Health Commissioner Liaison and Consulting Epidemiology Contract. Paton, S. July-August 2018, \$12,127.32. Responsibilities assigned by health commissioner.

**Funded Grants - New**

ADAMHS, Kinzeler, N. (PI), (2018-2021) - \$37,500. Warriors supporting wellness program evaluation. The purpose of the project is to provide program evaluation for ADAMHS' SAMHSA Mental Health Awareness Training (MHAT) grant.

Dayton Police Department, Kinzeler, N. (PI), (2018-2021) - \$37,500. CIT training program evaluation. The purpose of the project is to provide program evaluation for the Dayton Police Department's SAMHSA Mental Health Awareness Training (MHAT) grant.

Mount Olive Baptist Church, Kinzeler, N. (PI), (2018-2021) - \$37,500. Program evaluation for the Motivate, Educate, Link and Train (MELT) project. The purpose of the project is to provide program evaluation for Mount Olive's SAMHSA Mental Health Awareness Training (MHAT) grant.

Ohio Department of Higher Education, Crawford, T. (PI), 02/02/19 - 06/30/19, \$32,520. Ohio opioid analytics project.

Ohio Department of Medicaid, Crawford, T. (Co-I), 11/07/18 - 06/30/19, \$10,350. Medicaid equity simulation project. An interactive game for cultural proficiency training featuring virtual reality immersion (IGCPT).

Ohio Department of Health, Gebhart, M., Medical Reserve Corps in collaboration with NCMR/WSRI - \$300,000

OhioMHAS, Kinzeler, N. (PI), (2018-2020) - \$560,199 in Year 1. GPRA training, data collection and reporting for the State Opioid Response (SOR) grant. The purpose of this project is to conduct GPRA training and provide data management for OHMHAS' SAMHSA SOR grant.

OhioMHAS, Kinzeler, N. (PI), (2018-2020) - \$127,735 in Year 1. GPRA training, data collection and reporting for the Ohio Medication Assisted Treatment – Prescription Drug and Opioid Addiction (Ohio MAT PDOA) project. The purpose of this project is to conduct GPRA training and provide data management and reporting for OHMHAS' SAMHSA MAT PDOA grant.

OhioMHAS, Kinzeler, N. (Co-I), (2018-2019) - \$10,000. SBIRT training program evaluation. The purpose of the project is to conduct program evaluation for WSU's SBIRT Training grant with OHMHAS.

R21 DA049304-01, Daniulaityte, R. (PI), Silverstein, S. (Co-I, Ethnographer), 06/15/19 - 05/31/21, NIH/NIDA - \$409,671. Crystal in the Gem City: Characterizing a methamphetamine outbreak in the area of a high prevalence of illicit fentanyl use. The overall purpose of the proposed time sensitive study is to characterize the MA outbreak through mixed methods research that integrates ethnographic/structured interview data, urine toxicology, and forensic data on seized drugs and unintentional overdose deaths in the Dayton area.

SAMHSA-Day-TREE, Ford (PI), 09/30/18 - 09/29/2023, \$2,673,834

### **Funded Grants - Continuing**

NIH/NIDA - R01 DA040811, Daniulaityte, R. (PI), Carlson, R. (Co-I), 07/01/16 - 06/30/20, \$2,196,354. A natural history study of buprenorphine diversion, self-treatment, and use of drug abuse treatment services. The overall purpose of this natural history study is to describe and analyze the nature and consequences of buprenorphine diversion among opioid dependent users. Opioid-dependent people (n=400) who have recently used diverted Suboxone or generic buprenorphine will be recruited and interviewed every 6 months for 2 years to elucidate trajectories of buprenorphine and other opioid use, adverse health consequences associated with illicit buprenorphine use, and substance abuse treatment utilization. Using mixed methods, the study will detail and contextualize an emerging phenomenon of public health concern.

NIH/NIDA - R21 DA044518, Daniulaityte, R. (Co PI), Carlson, R. & Silverstein, S. (Co-I), 06/01/17 - 05/31/20, \$408,373 (no cost extension). eDarkTrends: Monitoring darknet markets to track illicit synthetic opioid trends. The overall goals of this time-sensitive R21 are to harness cryptomarket data to conduct surveillance of the illicit synthetic opioid markets availability trends over time, and identify new substances as they emerge on cryptomarkets.

NIH/NIDA - R21 DA042757, Daniulaityte, R. (PI), Carlson, R. (Co-I), 08/01/16 - 07/31/19, \$407,814. Characterizing fentanyl outbreaks: Ethnographic and forensic perspectives. The overall purpose of this time sensitive R21 study is to characterize non-pharmaceutical fentanyl (NPF) outbreaks through the integration of ethnographic/qualitative assessment of active user knowledge and experiences of NPF use, and the results from forensic analyses conducted by the postmortem toxicology and crime laboratories at MCCO/MVRC.

NIH/NIDA - R01 CA192281, Daniulaityte, R. (Co PI), Carlson, R. (Co-I), 08/15/14 - 07/31/18, \$1,428,809. Trending: Social media analysis to monitor cannabis and synthetic cannabinoid use. The major goals of the project are to: (1) Develop a comprehensive software platform, eDrugTrends, for semi-automated processing and visualization of thematic, sentiment, spatio-temporal, and social network dimensions of social media data (Twitter and Web forums) on cannabis and synthetic cannabinoid use; and (2) Deploy eDrugTrends to: a) Identify and

compare trends in knowledge, attitudes, and behaviors related to cannabis and synthetic cannabinoid use across U.S. regions with different cannabis legalization policies using Twitter and Web forum data, and b) Analyze social network characteristics and identify key influencers (opinions leaders) in cannabis and synthetic cannabinoid-related discussions on Twitter.

Ohio Department of Youth Services (DYS), Montgomery County Juvenile Court, Kinzeler, N. (PI), (2017-2020) - \$69,930. This grant provides program evaluation for 14 of the Court's Juvenile programs.

SAMHSA, Kinzeler, N. (PI), (2016-2021) - \$1,146,675. Peer Movement Project (PMP). This project provides substance abuse and HIV education and testing to African American college students ages 18-24.

SAMHSA, Ford, J. A. (PI), 09/30/14 - 09/29/2019, \$917,200. Integrated Continuum-of-Care Services Project CMHS (mental health).

SAMHSA, Ford, J. A. (PI), 09/30/2014 - 09/29/2019, \$298,200. Integrated Continuum-of-Care Services Project CSAT (substance abuse treatment).

SAMHSA, Ford, J. A. (PI), 09/30/2014 - 09/29/2019, \$784,600. Integrated Continuum-of-Care Services Project CSAP (substance abuse prevention).

SAMHSA, Ford, J. A. (PI as of 1/1/18), 09/30/2016 - 09/29/2019, \$1,505,064. Minority Women Sisterline Project.

SAMHSA, Ford, J. A. (PI), 09/30/2015 - 09/29/2019, \$1,199,984. Montgomery County Offender Reentry Program.

TOBHHP30029, Crawford, T. (Co-I), 07/01/16 - 06/30/21, \$13,800. Health Resources & Services Administration. Accelerating Primary Care Transformation at Wright State (ACT-Wright).

### **Published Papers**

Abusalem, S., Polivka, B., Coty, M., **Crawford, T. N.**, Furman, C. D., & Alaradi, M. (2019). The relationship between culture of safety and rate of adverse events in long-term care facilities. *Journal of Patient Safety*, 1. doi:10.1097/pts.0000000000000587

**Crawford, T. N.**, & Thornton, A. C. (2018). Alcohol use and multimorbidity among individuals living with HIV. *AIDS and Behavior*, 23(1), 152-160. doi:10.1007/s10461-018-2242-y

**Crawford, T. N.**, Harris, L. M., & Peyrani, P. (2019). Examining age as a moderating effect on the relationship between alcohol use and viral suppression among women living with HIV. *Women & Health*, 1-12. doi:10.1080/03630242.2018.1553817

**Daniulaityte, R.**, Zatreh, M. Y., Lamy, F. R., Nahhas, R. W., Martins, S. S., Sheth, A., & **Carlson, R. G.** (2018). A Twitter-based survey on marijuana concentrate use. *Drug and Alcohol Dependence*, 187, 155-159. doi:10.1016/j.drugalcdep.2018.02.033

**Daniulaityte, R.**, **Carlson, R. R.**, Juhascik, M. P., Strayer, K. E., & Sizemore, I. E. (2019). Street fentanyl use: Experiences, preferences, and concordance between self-reports and urine toxicology. *International Journal of Drug Policy*, 71, 3-9. doi:10.1016/j.drugpo.2019.05.020

**Daniulaityte, R.**, Juhascik, M. P., Strayer, K. E., Sizemore, I. E., Zatreh, M., Nahhas, R. W., & **Carlson, R. G.** (2019). Trends in fentanyl and fentanyl analogue-related overdose deaths – Montgomery County, Ohio, 2015–2017. *Drug and Alcohol Dependence*, 198, 116-120. doi:10.1016/j.drugalcdep.2019.01.045

Embree, J. A., **Crawford, T. N.**, & **Paton, S. J.** (2018). Suicide rates in rural Ohio: The role of population density, social association, and healthcare access. *Ohio Journal of Public Health*, 1(1), 8-13.



Gaur, M., Kursuncu, U., Alambo, A., Sheth, A., **Daniulaityte, R.**, Thirunarayan, K., & Pathak, J. (2018). "Let me tell you about your mental health!" Proceedings of the 27th ACM International Conference on Information and Knowledge Management - CIKM 18. doi:10.1145/3269206.3271732

Grimshaw, A., & **Silverstein, S. M.** (2018). The ax fight: A critical engagement with the work of Tim Asch and John Marshall. *Visual Anthropology Review*, 34(2), 113-123. doi:10.1111/var.12170

Khan, S. S., Hong-Mcatee, I., Kriss, V. M., Stevens, S., **Crawford, T.**, Hanna, M., & Desai, N. (2018). Thyroid gland volumes in premature infants using serial ultrasounds. *Journal of Perinatology*, 38(10), 1353-1358. doi:10.1038/s41372-018-0149-0

Kursuncu, U., Gaur, M., Lokala, U., Illendula, A., Thirunarayan, K., **Daniulaityte, R.**, & Arpinar, I. B. (2018). What's ur type? Contextualized classification of user types in marijuana-related communications using compositional multiview embedding. 2018 IEEE/WIC/ACM International Conference on Web Intelligence (WI). doi:10.1109/wi.2018.00-50

Lokala, U., Lamy, F. L., **Daniulaityte, R.**, Sheth, A., Nahhas, R. W., Roden, J. I., & **Carlson, R. G.** (2019). Global trends, local harms: Availability of fentanyl-type drugs on the dark web and accidental overdoses in Ohio. *Computational and Mathematical Organization Theory*, 25(1), 48-59. doi:10.1007/s10588-018-09283-0

Palla, M. R., Harohalli, S., **Crawford, T. N.**, & Desai, N. (2018). Progression of gastric acid production in preterm neonates: Utilization of in-vitro method. *Frontiers in Pediatrics*, 6(211). doi:10.3389/fped.2018.00211

Ridner, S. L., Keith, R. J., Walker, K. L., Hart, J. L., Newton, K. S., & **Crawford, T. N.** (2018). Differences in quality of life among college student electronic cigarette users. *AIMS Public Health*, 5(4), 454-462. doi:10.3934/publichealth.2018.4.454

Salameh, T. N., Hall, L. A., **Crawford, T. N.**, Staten, R. R., & Hall, M. T. (2019). Racial/ethnic differences in mental health treatment among a national sample of pregnant women with mental health and/or substance use disorders in the United States. *Journal of Psychosomatic Research*, 121, 74-80. doi:10.1016/j.jpsychores.2019.03.015

Wallace, K. D., Nahhas, R. W., Froehle, A. W., & **Khalil, N.** (2018). Age but not BMI predicts accelerated progression of KOA: Data from the Osteoarthritis Initiative. *The Ohio Journal of Public Health*, 1(1), 24-28.

Zepeda, K. G., Silva, M. M., Silva, Í R., **Redko, C.**, & Gimbel, S. (2018). Fundamentals of implementation science: An intensive course on an emerging field of research. *Escola Anna Nery Revista De Enfermagem*, 22(2). doi:10.1590/2177-9465-ean-2017-0323

### **Published Books, Chapters, Reviews**

Gebhart, M. (2019). Health equity in the aftermath of a natural disaster. In Santella, A., Ed. *Master of public health competencies: A case study approach*, pp. 121-126. Jones and Bartlett.

Khalil, N. (2019). Reviewer for *Climate change and health*.

### **Conference Abstracts**

Alcorn, K., Neely, S., & **Khalil, N.** (2019, May). The association of perfluoroalkyl substances and renal function in NHANES 2015–2016 population. Ohio Public Health Association Combined Conference, Columbus, Ohio.

**Carlson, R. G., Daniulaityte, R., Silverstein, S.,** Martins, S., & Nahhas, R. W. (2019, June). Unintentional drug overdose: Is more frequent use of non-prescribed buprenorphine associated with lower risk of overdose? Presented at College on Problems of Drug Dependence Meetings, San Antonio, Texas.

**Daniulaityte, R.,** Nahhas, R. W., **Silverstein, S.,** Silvia, M., & **Carlson, R. G.** (2019, June). Patterns of non-prescribed buprenorphine and other opioid use among individuals with opioid use disorder: A latent class analysis. Presented at College on Problems of Drug Dependence Meetings, San Antonio, Texas.

**Ellison, S., & Paton, S. J.** (2018, September). Invited symposium: Storm of the century: Pregnant and postpartum women with opioid use disorder and neonates exposed to opioids in utero. CityMatch Leadership and MCH Epidemiology Conference, Portland, Oregon.

**Ellison, S., & Paton, S. J.** (2018, September). Novel partnership: Public health & law enforcement infant mortality response initiative. CityMatch Leadership and MCH Epidemiology Conference, Portland, Oregon.

**Ford, J. A.,** Gaddis, R., Kissell, K. M., & **Kinzeler, N. R.** (2018, August). Comparing two HIV prevention programs for African American women in Dayton, OH. Presented at CDC STD Conference, Washington, DC.

**Ford, J. A.,** Kissell, K. M., Gaddis, R., Atkinson, T., Brown, K., & **Kinzeler, N. R.** (2018, November). Utilizing a case management approach to decrease substance use in an adult re-entry population. Presented at American Public Health Association (APHA) Meeting, San Diego, California.

**Ford, J. A.,** Kissell, K. M., Gaddis, R., Atkinson, T., & **Kinzeler, N. R.** (2019, March). Successful treatment completion improves behavioral health outcomes for a reentry population. Presented at the annual meeting of the American Academy of Health Behavior (AAHB), Greenville, South Carolina.

Heinle, B., Crawford, T., Paton, S., & **Khalil, N.** (2019, May). Perfluoroalkyl substance exposure and lung function in the U.S. population. Ohio Public Health Association Combined Conference, Columbus, Ohio.

**Kinzeler, N. R.,** Davis, K., Huber, J., Grundy, S., Martinez, P., & **Ford, J. A.** (2018, August). Using a community needs assessment to inform an HIV prevention program for African American college students. Presented at CDC STD Conference, Washington, DC.

**Kinzeler, N. R.,** Huber, J., Browning, A., Leonard, A., & **Ford, J. A.** (2019, March). Examining the unique substance abuse and HIV risk factors of African American college students using a community needs assessment. Presented at the annual meeting of the American Academy of Health Behavior (AAHB), Greenville, South Carolina.

Kissell, K. M., Gaddis, R., Atkinson, T., Brown, K., **Kinzeler, N. R., & Ford, J. A.** (2018, November). Substance use, housing and employment: An analysis of three barriers to the successful reentry of an adult offender population. Presented at the annual meeting of the American Public Health Association (APHA), San Diego, California.

Kissell, K. M., Gaddis, R., Atkinson, T., Brown, K., & **Kinzeler, N. R.** (2018, November). Substance use, housing, and employment: An analysis of three barriers to the successful reentry of an adult offender population. Presented at the annual meeting of the American Public Health Association (APHA) Meeting, San Diego, California.

Lamy, F., **Daniulaityte, R.,** Lokola, U., Kursuncu, U., Nahhas, R. W., Barratt, M., & **Carlson, R. G.** (2019, June). EDarkTrends: Analyzing illicit fentanyl and other novel synthetic opioid trends on cryptomarkets. Presented at College on Problems of Drug Dependence meetings, San Antonio, Texas.

Leary, D., Takazawa, M., Kannan, K., & **Khalil, N.** (2019, June). Perfluoroalkyl substances and metabolic syndrome in firefighters. Second National PFAS Conference, Boston, Massachusetts.

Walker, D., & **McAlearney, J.** (2019, June). Estimating the benefit of group purchasing organizations on hospital performance. Presented at AcademyHealth Annual Research Meeting, Washington, DC.

**Silverstein, S., Daniulaityte, R., & Carlson, R. G.** (2019, June). Who avoids formal drug treatment? Characterizing a group of opioid-dependent individuals. Presented at College on Problems of Drug Dependence meetings, San Antonio, Texas.

Wright, J. J., & **Kinzeler, N. R.** (2018, November). Using mindful yoga therapy to address stress-related outcomes for at-risk youth in juvenile court diversion program. Presented at the annual meeting of the International Society for Traumatic Stress Studies (ISTSS), Washington, DC.

Wright, J. J., **Kinzeler, N. R.**, Kissell, K. M., Adcock, K., & Peters, M. (2018, November). Improving health related outcomes by providing translational coping skills to mental health professionals serving vulnerable populations. Presented at Annual Meeting of the International Society for Traumatic Stress Studies (ISTSS), Washington, D.C.

**Significant Presentations** (e.g. to academic societies, medical schools and national professional societies)

**Carlson, R. G.** (2018, September). The opioid epidemics: Dayton, Ohio. How we got here and what to do about it. Invited Keynote Speaker. "From punishment to public health: Embracing evidence-based solutions to end the overdose crisis." Drug Policy Alliance, ACLU Ohio, Drug Enforcement and Policy Center (OSU), Ohio Harm Reduction, Columbus, Ohio.

**Crawford, T. N.** (2019, June). Examining the moderating effect of multimorbidity on the relationship between substance use and viral suppression. Kentucky AIDS Education Training Center Conference, Lexington, Kentucky.

Lamy, F., & **Daniulaityte, R.** (2018, October 24). Cryptomarket data on novel synthetic opioids. Webinar presented at National Drug Early Warning Network.

Moeller, A., **Daniulaityte, R., & Carlson, R. G.** (2018, October 18). Patterns and correlates of methamphetamine use among opioid dependent users. Poster at Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.

**Silverstein, S., Daniulaityte, R., & Carlson, R. G.** (2018, October 18). Who avoids formal treatment? Characterizing a group of opioid-dependent individuals. Poster at Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.

Trout, L., **Daniulaityte, R.**, Li, L., & **Carlson, R. G.** (2018, October 18). Carfentanil-related unintentional overdose death cases in Montgomery County, OH. Poster at Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.

Zaragosa, A., **Daniulaityte, R., & Carlson, R. G.** (2018, October 18). "It's always been about pain when it comes to opiates:" Experiences of pain among opioid addicted individuals. Poster at Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.

### **Consultantships (sponsor-activity)**

Paton, S. Consulting epidemiologist for Madison, Champaign and Clarke counties.

Paton, S., & Ellison, S. Wright State University Breastfeeding Institute

**Other Recognition** (e.g. editorships, reviewer, awards)

**Editorial Review Boards**

R. Carlson – Journal of Psychoactive Drugs

T. Crawford – Journal of the American Board of Family Medicine and Journal of AIDS and Behavior

N. Khalil – Bone, Environmental Research, and International Journal of Occupational Medicine and Environmental Health

J. McAlearney – Journal of Health Care for the Poor and Underserved

S. Paton – Ohio Journal of Public Health

**Journal Manuscript Reviews**

R. Carlson – Reviewed manuscripts for Drug and Alcohol Dependence, International Journal of Drug Policy, Journal of Addictive Diseases, Journal of Medical Internet Research, and Journal of Psychoactive Drugs

T. Crawford – Reviewed manuscripts for Journal of AIDS and Behavior, Journal of International Association of Providers of AIDS Care, Journal of the American Board of Family Medicine, Health Education and Behavior

R. Daniulaityte – Reviewed manuscripts for Drug and Alcohol Dependence, International Journal of Drug Policy, and Journal of Medical Internet Research of Psychoactive Drugs

M. Orłowski – Reviewed manuscripts for American Journal for Preventive Medicine

S. Silverstein – Reviewed manuscript for Journal of Drug Issues

M. T. White – Reviewed manuscripts for Journal of Genetic Counseling, BMC Medical Education, Annals of Internal Medicine

## 6 Service

**MPH Graduates - Student Integrative Learning Experience (Capstone) Projects**

**Summer 2018**

Flower, Alan. Illness and injury among U.S. Air Force military training instructors. Sylvia Ellison (Chair)

Gear, Melissa. Poor Sleep Health in American Adults: Implications for Screening in Civil Aviation. Timothy Crawford (Chair), Thomas Jarnot (Reader)

Leary, David. The association of perfluoroalkyl substances exposure and metabolic syndrome in U.S. adults. Naila Khalil (Chair)

Long, Andrew. Evaluation of the 7 Feb 2018 West Central Ohio coalition surge test. Nicole Kinzeler (Chair)

Navel, David. Firefighter behaviors in a nuclear response: A conceptual model for sheltering for national planning scenario 1. Marietta Orłowski (Chair), Mark Gebhart (Reader)

Ndiangui, Sarah. The relationship between injury severity and alcohol, prescription, and illicit drugs in emergency department patients involved in motor vehicle crashes in 2008. Sara Paton (Chair)

Mitchell, Radigan. Associations between serial workplace wellness screenings and health outcomes.

Semeniuk, Ross. Measuring the clinician experience: A quality improvement framework to enhance primary care provider engagement. John McAlearney (Chair)

Zatreh, Mussa. The effect of social vulnerability during the 2014 Ebola outbreak in Monrovia, Liberia. Sara Paton (Chair), Cristina Redko (Co-Chair)

### **Fall 2018**

Hairston, Kayla. The perspectives of African American women: Their pregnancy experience and their babies' birth outcomes. Sara Paton (Reader)

### **Spring 2019**

Alcorn, Katelynn. The association of perfluoroalkyl substances and renal function in NHANES 2015–2016 population. Naila Khalil (Chair)

Bagarus, Claire. Physical literacy and Premier Health school partnerships. John McAlearney (Chair)

Berman, Dene. Cross-cultural adaptation of an instrument to address the mental health needs in Nepal. Cristina Redko (Chair)

Dotson, Jordan. SNAP-Ed programming: Analyzing participant's health behaviors and knowledge through the use of nutrition education. Marietta Orlowski (Chair), Nicole Kinzeler (Reader)

Gonder-Strutz, Elizabeth. Who is testing? Demographic and sexual risk factors associated with HIV testing among African American college students. Nicole Kinzeler (Chair), Timothy Crawford (Reader)

Gukadowr, Khadra. The association of lead exposure and metabolic syndrome in U.S. adults. Naila Khalil (Chair), Nicole Kinzeler (Reader)

Heinle, Brenna. Perfluoroalkyl substance exposure and lung function in the U.S. population. Naila Khalil (Chair), Timothy Crawford (Co-Chair), Sara Paton (Reader)

James, Karla. The association of pesticide dichlorophenol exposure and chronic kidney disease in U.S. adults. Naila Khalil (Chair)

Lin, Amanda. Choosing a second-generation antidepressant using demographic characteristics and clinical symptoms of depression.

Olaoluwa, Halimat. Evaluation of safe sleep practices of cribs for kids class attendees. Sylvia Ellison (Chair), Naila Khalil (Reader)

Richards, Abigail. First responders vs CBRNE. Mark Gebhart (Chair), Timothy Crawford (Co-Chair)

Sokol, Jessica. Assessing the social determinants of health needs of older LGBT people in the Greater Miami Valley of Ohio. Timothy Crawford (Reader)

Trabue, Kelly. Description of race and preterm birth in six Ohio counties from 2013-2018. Sylvia Ellison (Chair), Sara Paton (Reader)

Yeates, Taylor. Sex differences in the outcomes of mild traumatic brain injury in children presenting to the emergency department. Nicole Kinzeler (Reader)

### **Summer 2019**

Crowder, Michael. The association of perfluoroalkyl substances exposure and cancer in U.S. adults. Naila Khalil (Chair)

**Committee Membership****Department of Population & Public Health Sciences**

Curriculum Committee: Crawford, Ellison, Jarnot, Gladish, Khalil, Kinzeler, McAlearney (Chair), Orłowski, Paton, Redko

Faculty Search Committee /Health Promotion & Education: Kinzeler, McAlearney, Orłowski (Chair), Redko

Faculty Search Committee /Biostatistician: Carlson, Crawford, Daniulaityte, Paton (Chair)

Instructional Faculty Committee: Crawford, Ellison, Gebhart, Gladish, Jarnot, Khalil, Kinzeler, McAlearney, Orłowski (Chair), Paton, Redko

MPH Admissions Committee: Khalil, McAlearney, Orłowski, Paton (Chair), Redko

MPH Advisory Board: Crawford, Ellison, Khalil, Kinzeler, McAlearney, Orłowski, Paton (Chair), Redko

MPH Awards & Recognition Committee: McAlearney, Orłowski (Chair), Paton, Redko

MPH Evaluation Committee: Crawford, Ellison (Co-Chair), Khalil (Co-Chair), Kinzeler, McAlearney, Orłowski, Paton, Redko

MPH Scholarship Committee: McAlearney, Orłowski, Paton (Chair)

Promotions & Continuances Committee: Carlson (Chair), Orłowski, Paton, White

**Boonshoft School of Medicine School of Medicine**

By-Laws Committee: White

CME Committee: Daniulaityte, Paton

Delta Omega Gamma Alpha Chapter: Orłowski (Chapter President), Paton (Chapter Vice-President)

Gold Foundation Humanism Honor Society Boonshoft SOM Chapter: White (Chapter Coordinator)

OB/GYN Clerkship Steering Committee: White

Research Committee: Carlson, Khalil

Research Task Force Committee: Orłowski

Scholarly Projects - Arts and Medicine: White (Chair)

Student Promotion Committee: Gebhart

Upstream Medicine Steering Committee: Ellison

**Wright State University**

Center for Teaching and Learning Faculty Advisory Board: Redko

Faculty Senate and Faculty Senate Executive Committee: Orłowski

Graduate Faculty Committee: Paton

IT Committee: Redko

International Recruiting Sub-Committee of Strategic Enrollment Planning Task Force: Khalil

Library Faculty Advisory Board: Crawford

Research & Sponsored Programs Confidential Committee: Carlson

Sisterline Grant Advisory Board: Crawford

Women in Science Giving Circle Faculty Committee: Khalil

**Hospital or affiliated institution**

Dayton Children's Community Advisory Board for Center for Community Health and Advocacy: Orłowski

Dayton Children's IRB Committee: White

Hospice of Dayton Ethics Committee: White

Kettering Medical Center Ethics Committee: White

Premier Health Atrium Medical Center Medical Executive Committee: Gebhart

Premier Health Atrium Medical Center Quality Committee: Gebhart

Premier Health Board of Trustees, Community Benefit Subcommittee: Orłowski

**State/Local**

ADAMHS Project Save Advisory Board: Kinzeler, Paton

Attorney General's Opioid Task Force: Carlson, Daniulaityte

Community Overdose Action Team (PHDMC): Carlson, Daniulaityte, Ellison

CUGH (Consortium of Universities for Global Health), Educational Products Sub-Committee: Redko (Co-Chair)

CUGH WSU Local Organizing Committee Representative for CUGH2019 conference, Chicago - Education Committee: Redko

Emergency Services Medical Directorships - City of Franklin, OH & Joint Emergency Medical Services District: Gebhart

Epilepsy Foundation of Ohio Board of Trustees: Orłowski

4H of Miami County: Paton

Greater Miami Valley Breastfeeding Coalition: Ellison

Greene Country Prevention Coalition: Ford

GROW Ohio Pharmaceuticals Substance Abuse Researcher Advisory Board: Carlson

Montgomery County Child Fatality Review Board: Paton

Montgomery County Collective Opioid Action Team (Steering Committee and Data Committee): Paton

Montgomery County Community Health Improvement Plan Steering Committee: Paton

Montgomery County Prevention Collaborative: Paton

Ohio Alliance for Innovation in Public Health (steering committee): Paton

Ohio Collaborative to Prevent Infant Mortality: Ellison, Paton

Ohio Department of Mental Health and Addiction Services: Carlson

Ohio Public Health Resiliency Coalition (OPHCRC) for climate change, Ohio Public Health Association: Khalil

Ohio Public Health Association: Ellison, Paton

Public Health - Dayton & Montgomery County (PHDMC) Research Review Panel: Paton

PHDMC Incident Management Team: Paton

PHDMC Ethics Committee: Paton

PHDMC LGBTQ Health Alliance - Mental Health, Addiction, and Violence Taskforce: Crawford

Monday Community Correctional Institution Provider Board: Ford

Montgomery County HIV/AIDS Prevention Committee: Ford

Mount Olive Baptist Church Motivate, Educate, Link and Train (MELT) project Advisory Board: Kinzeler

Ohio Lactation Consultant Association, Conference Planning Committee: Ellison

Peer Movement Project Advisory Board: Kinzeler (Chair)

Society for Public Health Education (SOPHE): Orłowski

United Way of Montgomery County: Paton

Yellow Springs Exempted Village School District, Board of Education: Ellison

Yellow Springs Active Transportation Committee: Ellison

### **National/international**

ASPPH (Association of Schools and Programs of Public Health), Scholarship of Teaching and Learning Task Force (SoTL): Khalil

CityMatCH CityLeaders Mentor & Mentee Program: Ellison

CityMatCH Institute for Equity in Birth Outcomes: Ellison, Paton

Climate Reality Leadership Corps: Khalil

Consortium for Southeastern Hypertension Control (COSEHC), Research and Publications Committee: McAlearney

Consortium of Universities for Global Health (CUGH), Abstract Review - Ethics: White

Continuing Opioid Crisis, Opioids and Overdose (review of oral presentations): Carlson (Chair)

International Society for Environmental Epidemiology, Eastern Mediterranean Chapter: Khalil

Global Consortium on Climate and Health Education (GCCHE): Khalil

National Commission for Health Education Credentialing, Inc.: Orłowski

National Drug Early Warning System's Scientific Advisory Group: Carlson

NIDA/NIH Grant Reviewer: Carlson, Daniulaityte

## **7 Honors and Awards**

### **Faculty Honors/ Awards**

- T. Crawford: Lyman T. Johnson Torch of Excellence Award (2018)
- S. Silverstein: Society for Medical Anthropology Alcohol, Drugs, and Tobacco Study Group Graduate Student Paper Prize (*submitted while a doctoral candidate; awarded after hired*)

### **Graduate Student Honors/Awards**

- Delta Omega Gamma Alpha Chapter Inductees
  - Students: Brenna Heinle ('19) & Jessica Sokol ('19)
  - Alumni: Haley Carretta ('13), Robert Eick ('13), Ashlee Young ('13)
- Graduate Student Excellence Award, MPH Program – Brenna Heinle
- MPH Student Excellence Awards
  - Epidemiology: Jessica Sokol
  - Health Promotion & Education: Sarah DeWitt
  - Maternal & Child Health: Kelly Trabue
- Ohio Public Health Combined Conference Student Presentations - Oral: Brenna Heinle, 2<sup>nd</sup> Place



## 8 Hosted Events

Association of Ohio Health Commissioners (AOHC). The Education Center hosted the AOHC southwest and central Ohio health commissioners' monthly meeting. November, 2018.

Delta Omega - Public Health Careers 101. This event encouraged attendees to explore the numerous careers and employment opportunities that exist within the growing field of public health. The interactive event consisted of a panel discussion with 10 WSU MPH alumni, followed by a networking session that included additional WSU MPH alumni. February, 2019.

Delta Omega - Induction/ Luncheon. This event recognizes excellence in public health service by inducting students, alumni, faculty, and community members to the Delta Omega national public health honor society. April, 2019.

MPH - Poster Session and Recognition Ceremony. This event highlights the accomplishments of WSU MPH students as they present their final project in a poster session followed by a recognition ceremony. May, 2019.

SARDI - Rock the Red Pump Event co-sponsored with Public Health Dayton/Montgomery County. This was an HIV awareness event focusing on African American women. March, 2019.