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| **Curriculum Vitae and Bibliography** |

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| **Adam J Milam, MD, PhD** |

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| **Personal Information** |
| Work Address: | Mayo Clinic5777 East Mayo BoulevardPhoenix, AZ 85054 |
| Email Address: | Milam.Adam@mayo.edu |

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| **Present Academic Rank and Position** |

 |
| **Faculty Associate** - CDC Center for the Prevention of Youth Violence/Maryland Safe and Supportive Schools Project, Johns Hopkins Bloomberg School Of Public Health | 12/2012 - Present |
| **Senior Associate Consultant** - Division of Cardiovascular and Thoracic Anesthesiology, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Phoenix, Arizona | 08/30/2021 - Present |
| **Medical Director** - Office of Health Equity and Inclusion, Mayo Clinic | 2022 - Present |
| **Professor of Practice** - Department of Population Health, College of Health Solutions, Arizona State University | 01/2022 - Present |
| **Faculty** - Diversity Science Program, Mayo Clinic Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, Mayo Clinic Enterprise | 2023 - Present |
| **Senior Associate Consultant (Joint Appointment)** - Division of Epidemiology, Department of Quantitative Health Sciences, Mayo Clinic, Phoenix, Arizona | 03/29/2023 - Present |
| **Associate Professor of Epidemiology** - Mayo Clinic College of Medicine and Science | 03/01/2024 - Present |
| **Professor of Anesthesiology** - Mayo Clinic College of Medicine and Science | 05/01/2024 - Present |

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| **Education** |
| Krieger School of Arts and Sciences, Johns Hopkins University, Baltimore, Maryland - BA, Public Health Studies and History of Science, Medicine & Technology | 2008 |
| Department of Mental Health, Johns Hopkins Bloomberg School Of Public Health, Baltimore, Maryland - MHS, Mental Health; Certificate in Health Disparities & Health Inequities | 2009 |
| Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland - PhD, Mental Health; Child Mental Health Services Training Program | 2012 |
| Wayne State University School of Medicine, Detroit, Michigan - MD | 2012 - 2016 |
| Department of Anesthesiology, Cedars-Sinai Medical Center, Los Angeles, California - Residency | 2016 - 2019 |
| Department of Anesthesiology, Cedars-Sinai Medical Center, Los Angeles, California - Chief Resident | 2019 - 2020 |
| Anesthesiology Institute, Cleveland Clinic Foundation, Cleveland, Ohio - Fellowship, Adult Cardiothoracic Anesthesiology | 2020 - 2021 |

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| **Additional Education** |
| Origins of Renal PhysiologyAmerican Society of Nephrology, Bar Harbor, Maine | 2012 |

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| **Certification** |

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| **Board Certifications** |
| **National Board of Echocardiography, Inc. (NBE)** |
| Diplomate - Advanced Perioperative Transesophageal Echocardiography  | 2022 - Present |
| **The American Board of Anesthesiology (ABA)** |
| Anesthesiology  | 2021 - Present |

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| **Other Certifications** |
| **Mayo Clinic Academy of Educational Excellence** |
| Fundamentals for Medical Educators  | 2022 - Present |
| **Online non-credit course authorized by University of Michigan and Offered through Coursera** |
| Instructional Methods in Health Professions Education  | 2022 - Present |

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| **Licensure** |
| California | A154730 (Medical) | 2018 - 2023 |
| Ohio | 35.139997 (Medical) | 2020 - 2022 |
| Arizona | 62932 (Medical) | 2021 - 2022 |

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| **Honors and Awards** |
| **Dean's List** - The Johns Hopkins University | 2007 |
| **Dean's List** - The Johns Hopkins University | 2008 |
| **Finalist, Barbara Jordan Health Policy Scholars Program** - The Johns Hopkins University, Baltimore, Maryland | 2008 |
| **Outstanding Senior Award** - The Johns Hopkins University, Baltimore, Maryland | 2008 |
| **Primm-Singleton Minority Travel Awards Program** - College on Problems of Drug Dependence | 2009 |
| **Training Fellowship at Johns Hopkins University** - National Institute of Mental Health, National Institutes of Health | 2009 - 2011 |
| **Minority Travel Award** - Society for Prevention Research | 2010 |
| **Paul V. Lemkau Scholarship Award** - Johns Hopkins Bloomberg School of Public Health | 2012 |
| **Early Career Prevention Network Travel Award** - Society for Prevention Research | 2013 |
| **Foundation Scholars Fund Recipient** - American Medical Association | 2013 |
| **Herbert W. Nickens Student Scholarship** - Association of American Medical Colleges | 2014 |
| **J. Ferguson MD Scholarship Fund** - Wayne State University School of Medicine | 2014 |
| **Junior Investigator Travel Award** - Research Society on Alcoholism | 2014 |
| **Minority Travel Scholarship** - Society for Prevention Research | 2014 |
| **Shivappa V. Hulbanni, MD Endowed Scholarship Fund** - Wayne State University School of Medicine | 2014 |
| **Travel Award for Early Career Investigators** - College on Problems of Drug Dependence | 2014 |
| **Arnold P. Gold Humanism Honor Society** - Wayne State University | 2015 |
| **David Satcher Clerkship** - University Hospitals, Case Western Reserve University | 2015 |
| **Excellence in Public Health Award** - Physician Professional Advisory Committee, U.S. Public Health Service | 2015 |
| **Mort Harris Endowed Scholarship** - Wayne State University | 2015 |
| **Nicholas K. P'Sachos and Mary T. P'Sachos Medical Student Scholarship** - Wayne State University School of Medicine | 2015 |
| **20 in Their Twenties Award** - Maryland Daily Record | 2016 |
| **Dean's Distinguished Leadership Award** - Wayne State University School of Medicine | 2016 |
| **Delta Omega Public Health Honor Society, Alpha Chapter** - The Johns Hopkins University | 2016 |
| **Distinction in Biomedical Research** - Wayne State University School of Medicine | 2016 |
| **Harris Award** - Wayne State University School of Medicine | 2016 |
| **Marjorie Edwards Prize for Scholarship & Community Service** - Wayne State University School of Medicine | 2016 |
| **Foundation for Anesthesia Education and Research Scholar** - American Society of Anesthesiologists | 2019 |
| **Leo G. Rigler, M.D. Award** - Department of Anesthesiology, Cedars-Sinai Medical Center | 2020 |
| **Evelyn E. Henley Anesthesia Society Scholar** - Anesthesiology Section, National Medical Association | 2021 |
| **Hall of Fame** - Baltimore City College Alumni Association, Inc. | 2021 |
| **National Medical Association Travel Award** - National Institutes of Health | 2021 |
| **Community Champion Award** - Johns Hopkins Alumni Association | 2022 |
| **Anesthesiology Teacher of the Year** - Department of Anesthesiology and Perioperative Medicine, Mayo Clinic | 06/2023 |
| **Outstanding Emerging Educator Award** - Mayo Clinic | 10/2023 |
| **40 Under 40 Leaders in Health Award** - National Minority Quality Forum | 05/2024 |

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| **Previous Professional Positions and Major Appointments** |
| **Multifunctional Technician** - Emergency Department, The Union Memorial Hospital | 2006 |
| **Clinical Technician** - Emergency Department, The Johns Hopkins Medical Institutions | 2006 - 2008 |
| **Legislative Intern** - Maryland General Assembly, State of Maryland | 2007 - 2011 |
| **Research Assistant** - Pacific Institute for Research and Evaluation | 2007 |
| **Senior Research Assistant/Quality Assurance Supervisor** - Drug Investigations, Violence, and Environmental Studies Lab, Johns Hopkins University Bloomberg School of Public Health | 09/2007 - 12/2011 |
| **Multifunctional Technician** - Emergency Department, The Union Memorial Hospital | 2007 - 2008 |
| **Research Assistant** - School of Public Health, Morgan State University | 2007 - 2008 |
| **Epidemiologist** - Baltimore City Health Department | 2011 - 2012 |
| **Research Data Analyst** - CDC Center for the Prevention of Youth Violence/Maryland Safe and Supportive Schools Project, Johns Hopkins Bloomberg School Of Public Health | 12/2011 - 12/2012 |
| **Research Specialist** - Division of Public Health, College of Human Medicine, Michigan State University | 2016 - 2021 |
| **Assistant Professor** - College of Human Medicine, Michigan State University | 2020 - 2021 |
| **Associate Professor of Anesthesiology** - Mayo Clinic College of Medicine and Science | 03/01/2022 - 04/30/2024 |

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| **Service** |

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| **Community Memberships and Services** |
| Cedars-Sinai Medical Center |  |
| HealthCare for the Homeless  |  |
| Medical Director  | 2020 |
| City of Baltimore |  |
| City Health Department  |  |
| Food Policy Taskforce  |  |
| Member  | 2009 |
| Foundation for Second Chances |  |
| Annual Health Fair Committee  |  |
| Member  | 2018 - 2019 |
| Mbarara University of Science and Technology |  |
| Volunteer  | 2019 |
| Ohana One International Surgical Aid and Education |  |
| Volunteer  | 2019 |
| People's Community Health Clinic |  |
| Volunteer  | 2008 - 2009 |
| HIV Testing and Counseling  |  |
| Volunteer  | 2008 - 2009 |
| State of Maryland |  |
| Department of Health and Mental Hygiene  |  |
| Maryland Health Quality and Cost Council Wellness and Prevention Workgroup  |  |
| Representative  | 2009 |
| Substance Abuse Date Workgroup  |  |
| Member  | 2010 |

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| **Professional Memberships and Societies** |

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| **Professional Memberships and Services** |
| American Academy of Emergency Medicine |  |
| Student Member  | 2012 - 2015 |
| American Association of Geographers  |  |
| Student Member  | 2009 - 2011 |
| American Association of Physician Leadership |  |
| Member  | 2023 - Present |
| American College of Chest Physicians |  |
| Member  | 2021 - Present |
| American College of Physicians |  |
| Student Member  | 2012 - 2015 |
| American Heart Association |  |
| Member  | 2022 - Present |
| Council on Cardiovascular Surgery and Anesthesia  |  |
| Award Reviewer  | 2024 |
| CVSA Leadership Committee  |  |
|  Member  | 07/2023 - 06/2025 |
| Early Career Committee  |  |
|  Member  | 07/2022 - 06/2024 |
| Emergency Cardiovascular Care Committee  |  |
| Member  | 07/2023 - 06/2025 |
| American Medical Association |  |
| Student Member  | 2014 - Present |
| Member  | 03/2023 - Present |
| American Public Health Association |  |
| Alcohol, Tobacco, and Other Drugs Section  |  |
| Abstract Reviewer  | 03/2016 |
| American Society of Anesthesiologists |  |
| Student Member  | 2014 - 2016 |
| Member  | 2016 - Present |
| Anesthesiology Special Interest Group  |  |
| Panelist  | 04/2023 |
| Committee on Cardiovascular and Thoracic Anesthesia  |  |
| Adjunct Member  | 2020 - Present |
| Committee on Professional Diversity  |  |
| Adjunct Member  | 2021 - Present |
| Second Virtual Doctors Back to School Program  |  |
|  Member  | 2022 - Present |
| Diversity Mentorship Grant  |  |
| Abstract Reviewer  | 2022 |
| Education Subcommittee Meeting for Cardiac Anesthesia  |  |
| Member  | 09/2023 - Present |
| Foundation for Anesthesia Education and Research (FAER)  |  |
| Medical Student Anesthesia Research Fellowship  |  |
|  Reviewer  | 02/2022 |
| American Society of Anesthesiology (ASA) |  |
| Western Anesthesia Residents' Conference  |  |
| 2023 Planning Committee  |  |
|  Member  | 2023 |
| American Society of Echocardiography |  |
| Member  | 2022 - Present |
| Fellow  | 10/2022 - Present |
| American Society of Nephrology |  |
| Student Member  | 2012 - 2015 |
| Association of University Anesthesiologists |  |
| Member  | 07/2022 - Present |
| Baltimore City College Alumni Association, Inc. |  |
| Board Member  | 2010 - 2012 |
| California Society of Anesthesiologists |  |
| Delegate  | 2018 - 2019 |
| Board Member  | 2019 - 2020 |
| In-Training Practice Forum  |  |
| Director  | 2019 - 2020 |
| Resident Research Day  |  |
| Abstract Reviewer  | 06/2020 |
| College on Problems of Drug Dependence |  |
| Student Member  | 2009 - 2012 |
| Member In-Training  | 2012 - 2014 |
| Associate Member  | 2014 - 2016 |
| Regular Member  | 2016 - Present |
| Member-in-Training Committee  |  |
| Member  | 2014 - 2015 |
| Evelyn E. Henley Anesthesia Society |  |
| Charter Member  | 2021 - Present |
| Foundation for Anesthesia Education and Research |  |
| Abstract Reviewer  | 2022 |
| International Anesthesia Research Society |  |
| Member  | 2022 - Present |
| International Society for Urban Health |  |
| Member  | 2016 - Present |
| National Hispanic Medical Association |  |
| Member  | 2022 - Present |
| National Medical Association |  |
| Member  | 2020 - Present |
| Anesthesia Section  |  |
| Treasurer  | 2023 - Present |
| Annual Meeting, Anesthesiology Section  |  |
| Planning Committee  |  |
|  Member  | 2021 |
|  Member  | 2022 |
|  Member  | 2023 |
| Council on Medical Legislation  |  |
| Anesthesiology Section  |  |
|  Member  | 2020 - Present |
| Research Society on Alcoholism |  |
| Student Member  | 2010 - 2014 |
| Society for Prevention Research |  |
| Student Member  | 2010 - 2012 |
| Member  | 2012 - Present |
| Abstract Reviewer  | 12/2017 |
| Abstract Reviewer  | 12/2018 |
| Society for the Advancement of Transplant Anesthesia |  |
| Member  | 2021 - Present |
| Society of Cardiovascular Anesthesiologists |  |
| Member  | 2018 - Present |
| Conference Abstract Reviewer  | 2022 |
| Conference Poster Moderator  | 2022 |
| Conference Abstract Reviewer  | 2023 |
| Diversity, Equity, and Inclusion Committee  |  |
| Member  | 2021 - Present |
| DEI Scholar Application  |  |
|  Reviewer  | 03/2024 |
| Junior Resident Scholarship Program  |  |
|  Reviewer  | 2024 |
| Resident and Fellow Complex Cases  |  |
| Reviewer  | 12/2023 |
| Society of Thoracic Surgeons |  |
| Associate Member  | 2023 - Present |
| Student National Medical Association |  |
| Member  | 2012 - Present |
| Abstract Reviewer  | 2020 |
| Abstract Reviewer  | 2021 |
| Abstract Reviewer  | 2022 |
| American Medical Education Conference  |  |
| Global Health Fellowship Poster Presentation  |  |
|  Judge  | 04/2022 |
| Annual Medical Education Conference  |  |
| Judge  | 04/2020 |
| Judge  | 04/2021 |
| Judge  | 04/2022 |
| Board of Directors  |  |
| Mentorship Program  |  |
|  Longitudinal Membership Program  |  |
| Member  | 2022 - 2023 |
| United Community Access Media, Inc. |  |
| Board Member  | 2009 - 2010 |
| Western Anesthesia Residents' Conference |  |
| Abstract Reviewer  | 2022 |

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| **Journal Responsibilities** |

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| **Journal Editorial Responsibilities** |
| Journal of Community Psychology |  |
| Editorial Board Member  | 2019 - Present  |
| Prevention Science |  |
| Editorial Board Member  | 2020 - Present  |
| Sustainability |  |
| Editorial Board Member  | 2020 - Present  |

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| **Journal Other Responsibilities** |
| Addictive Behaviors |  |
| Ad Hoc Reviewer  |  |
| AIDS and Behavior |  |
| Ad Hoc Reviewer  | 10/2022 - Present |
| Alcoholism: Clinical and Experimental Research |  |
| Reviewer  |  |
| American Journal of Epidemiology |  |
| Reviewer  | 04/2024 |
| American Journal of Managed Care |  |
| Reviewer  | 09/2023 - Present |
| American Journal of Preventive Medicine |  |
| Ad Hoc Reviewer  |  |
| American Journal of Public Health |  |
| Ad Hoc Reviewer  |  |
| Analyses of Social Issues and Public Policy |  |
| Ad Hoc Reviewer  |  |
| Anesthesia & Analgesia |  |
| Reviewer  | 2024 - Present |
| BMC Medical Genetics |  |
| Ad Hoc Reviewer  | 05/2020 - Present |
| BMC Public Health |  |
| Ad Hoc Reviewer  |  |
| Cities |  |
| Ad Hoc Reviewer  |  |
| Criminology |  |
| Reviewer  | 12/2023 - Present |
| Drug and Alcohol Dependence |  |
| Ad Hoc Reviewer  |  |
| Epidemiology and Infection |  |
| Ad Hoc Reviewer  |  |
| Geriatrics and Gerontology International |  |
| Ad Hoc Reviewer  |  |
| Health and Place |  |
| Ad Hoc Reviewer  |  |
| Health Equity |  |
| Ad Hoc Reviewer  |  |
| Health Services Research Journal |  |
| Ad Hoc Reviewer  | 01/2022 - Present |
| Injury Prevention |  |
| Ad Hoc Reviewer  |  |
| International Journal of Drug Policy |  |
| Ad Hoc Reviewer  | 2022 - Present |
| JACC: Heart Failure |  |
| Ad Hoc Reviewer  | 07/2023 - Present |
| Journal of Addiction Medicine |  |
| Ad Hoc Reviewer  |  |
| Journal of Cardiothoracic and Vascular Anesthesia |  |
| Guest Reviewer  | 10/2021 - Present |
| Ad Hoc Reviewer  | 11/2021 - Present |
| Journal of Community Psychology |  |
| Ad Hoc Reviewer  |  |
| Journal of Early Adolescence |  |
| Ad Hoc Reviewer  |  |
| Journal of Epidemiology and Community Health |  |
| Ad Hoc Reviewer  |  |
| Journal of Ethnicity in Substance Abuse |  |
| Ad Hoc Reviewer  |  |
| Journal of Health Care for the Poor and Underserved |  |
| Ad Hoc Reviewer  |  |
| Journal of Intensive Care Medicine |  |
| Ad Hoc Reviewer  | 05/2024 - Present |
| Mayo Clinic Proceedings |  |
| Ad Hoc Reviewer  | 2022 - Present |
| Pediatric Investigation |  |
| Ad Hoc Reviewer  |  |
| PLOS ONE  |  |
| Ad Hoc Reviewer  |  |
| Prevention Science |  |
| Ad Hoc Reviewer  |  |
| Preventive Medicine Reports |  |
| Ad Hoc Reviewer  |  |
| Progress in Community Health Partnerships |  |
| Ad Hoc Reviewer  |  |
| Sociological Inquiry |  |
| Ad Hoc Reviewer  |  |
| Substance Abuse Treatment, Prevention, and Policy |  |
| Ad Hoc Reviewer  |  |
| Substance Use and Misuse |  |
| Ad Hoc Reviewer  |  |
| Sustainability |  |
| Ad Hoc Reviewer  |  |
| The American Journal of Drug and Alcohol Abuse |  |
| Ad Hoc Reviewer  |  |
| The Lancet Regional Health - Europe |  |
| Ad Hoc Reviewer  | 2022 - Present |
| Tobacco Use Insights |  |
| Ad Hoc Reviewer  |  |
| Violence and Gender |  |
| Ad Hoc Reviewer  | 2022 - Present |

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| **Education Interests and Accomplishments** |

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| **Teaching**  |
| TA: Alcohol Problems: Epidemiology, Prevention, and TreatmentJohns Hopkins Bloomberg School of Public HealthBaltimore, Maryland | 01/2010 - 03/2010 |
| TA: Seminars on Health and Wellbeing in BaltimoreJohns Hopkins Bloomberg School of Public HealthBaltimore, Maryland | 01/2010 - 05/2010 |
| Neighborhood Violence and Adolescent OutcomesAdolescent Medicine Grand RoundsJohns Hopkins HospitalBaltimore, Maryland | 08/2011 |
| TA: Perspectives of PsychiatryJohns Hopkins Bloomberg School of Public HealthBaltimore, Maryland | 09/2011 - 10/2011 |
| Simulation Laboratory InstructionThis simulation for residents and medical students was designed to assess management of opioid overdose among an inpatient hospital population. This course also presented the concept of multimodal analgesia and resources for management of pain in chronic pain patients. Cedars-Sinai Medical Center | 06/2018 - 09/2018 |
| Simulation Laboratory InstructionThis simulation for residents and medical students was designed to assess airway management including use of oral and nasal airways, laryngeal mask airway, and direct laryngoscopy. Cedars-Sinai Medical Center | 06/2018 - 06/2020 |
| Opioid Medication SafetyGraduate Medical Education New House Staff OrientationCedars-Sinai Medical Center | 07/2018 |
| Intraoperative and Postoperative Management of Orthotopic Lung TransplantationGrand RoundsDepartment of Anesthesiology, Cedars-Sinai Medical Center | 07/2018 |
| Racism in MedicineDepartment of Anesthesiology and Perioperative Medicine Grand RoundsMayo Clinic Arizona | 11/2021 |
| Journal ClubAnesthesiology ResidentsMayo ClinicPhoenix, Arizona | 01/2022 - Present |
| Simulation Laboratory InstructionThis simulation for residents was designed to assess anesthetic management of a patient in acute decompensated heart failure.Mayo Clinic Arizona | 01/2022 |
| Medical Student Anesthesia Research Fellowship (MSARF) Summer ProgramMentorMayo Clinic Arizona | 05/2022 - Present |
| Perioperative Health Care DisparitiesDepartment of Anesthesiology and Perioperative MedicineMayo Clinic FloridaJacksonville, Florida | 07/2022 |
| Clinical Cardiac & Pulmonary Physiology Department of Anesthesiology and Perioperative Medicine Resident LectureMayo ClinicPhoenix, Arizona | 07/2022 |
| Untapped Avenues: Exploring Opportunities for Meaningful Community Engagement to Advance Health EquityKern Center Grand Rounds, Community Edition | 07/2022 |
| Diversity, Equity, and Inclusion in the Medical WorkforceDepartment of Anesthesiology Resident LectureMayo Clinic Arizona | 08/2022 |
| Greater Good DocumentaryModeratorDepartment of Anesthesiology Grand Rounds | 08/2022 |
| Greater Good Documentary Discussion (Facilitator)Internal Medicine Grand RoundsMayo Clinic ArizonaScottsdale, Arizona | 10/2022 |
| Greater Good DocumentaryFacilitator - Workforce DevelopmentMayo ClinicPhoenix, Arizona | 11/2022 |
| Statistical Principles for Anesthesiologists Department of Anesthesiology and Perioperative Medicine Grand RoundsMayo ClinicPhoenix, Arizona | 11/2022 |
| Radiology Equity, Inclusion, and Diversity Lecture Series; Social Determinants of Health, Health Care Disparities, and Health Inequities: The Role of PhysiciansDepartment of RadiologyMayo Clinic ArizonaPhoenix, Arizona | 01/2023 |
| Social Determinants of Health, Health Disparities, and Health Inequities: The Role of FamilyDepartment of Family MedicineMayo Clinic ArizonaScottsdale, Arizona | 02/2023 |
| Perioperative Health DisparitiesDepartment of SurgeryMayo Clinic ArizonaPhoenix, Arizona | 02/2023 |
| Social Determinants of Health, Health Care Disparities, and Health Inequities: The Role of All Health Care ProvidersDepartment of Physical Medicine and RehabilitationMayo Clinic ArizonaPhoenix, Arizona | 03/2023 |
| Perioperative Health Care DisparitiesResident DEI LectureMayo Clinic Department of Anesthesiology and Perioperative MedicinePhoenix, Arizona | 03/2023 |
| The Mayo Clinic EID Ecosystem - Interconnectedness, Scope, and Impact: The Role of the Clinical Practice in Advancing Health Equity at Mayo ClinicEquity, Inclusion, and Diversity Grand RoundsMayo ClinicPhoenix, Arizona | 06/2023 |
| My Journey in Medicine and Health Care DisparitiesMayo Clinic CARESMayo Clinic College of Medicine, Office for Education Diversity, Equity, and InclusionPhoenix, Arizona | 06/2023 |
| Clinical Cardiac & Pulmonary Physiology Department of Anesthesiology and Perioperative Medicine Resident LectureMayo ClinicPhoenix, Arizona | 07/2023 |
| Perioperative Health Care DisparitiesDepartment of Anesthesiology and Perioperative Medicine Resident LectureMayo Clinic RochesterRochester, Minnesota | 08/2023 |
| Research Grand RoundsDepartment of Anesthesiology and Perioperative Medicine Resident LectureMayo Clinic ArizonaPhoenix, Arizona | 09/2023 |
| Social Determinants of Health, Health Care Disparities, and Health Inequities among Patients with Cardiovascular Disease: The Role of Cardiologists and Cardiac SurgeonsDepartment of Cardiovascular Medicine – Grand RoundsMayo ClinicPhoenix, Arizona | 09/2023 |
| Health Equity Discussion – St. Clair HealthMayo Clinic Health Care Network | 10/2023 |
| Advancing Health EquityMayo Clinic HBCU Student Career Club (Virtual) | 10/2023 |
| Statistics for Perioperative MedicinePresented to the Anesthesiology Residency ProgramMayo Clinic Arizona | 10/2023 |
| The Journey to Health Equity at Mayo ClinicHealth Systems Science - Pre-Clerkship CourseMayo Clinic Alix School of Medicine | 11/2023 |
| Importance of Diversity in Education from a Physician's Point of ViewMayo Clinic School of Professional Development | 12/2023 |
| Anesthesia for Heart TransplantDepartment of Anesthesiology and Perioperative Medicine Resident LectureMayo Clinic Arizona | 01/2024 |
| Approaches to Perioperative Pain ManagementSurgery Residency Program, Department of SurgeryMayo ClinicPhoenix, Arizona | 05/2024 |

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| **Academy of Educational Excellence** |
| Excellence in Teaching at the Associate level on this date September 2022  |

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| **Mentorship** |
| Williams PhD, Stacey**Description:** **Current Status:** Completed PhD at Johns Hopkins Bloomberg School of Public Health, March 2017 **Outcome:** Multiple publications and presentations | 01/2013 - 06/2020 |
| Nesoff PhD, Elizabeth**Description:** **Current Status:** Instructor of Epidemiology at University of Pennsylvania. Completed PhD at Johns Hopkins Bloomberg School of Public Health, 2017**Outcome:** Multiple publications and presentations | 02/2015 - Present |
| Thompson MD, Jordan**Description:** **Current Status:** Anesthesiology Resident at Montefiore Medical (PGY1); graduated medical school University of Florida Gainesville 2020**Outcome:**  | 06/2018 - Present |
| Nwosu, Okechukwu**Description:** Working on research study with me (Implicit bias)**Current Status:** Anesthesiology Resident at University of Texas - Houston**Outcome:**  | 03/2019 - Present |
| Tolbert, Karl**Description:** Shadowed with me in Los Angeles**Current Status:** Medical Student, Lincoln Memorial University**Outcome:**  | 04/2019 - Present |
| Houston MD, Bobby**Description:** **Current Status:** Anesthesiology Resident at University of Florida (PGY1), Gainesville**Outcome:** Graduated medical school Ross University 2020. ASA scientific abstract | 06/2019 - Present |
| Eko, Muambo**Description:** **Current Status:** Student, King's College of London**Outcome:**  | 02/2020 - 05/2023 |
| Tavarez-Mora, Frank**Description:** **Current Status:** MS3 at Frank H. Netter MD School of Medicine at Quinnipiac University, Hamden, Connecticut**Outcome:** Abstract accepted at SCA | 08/2021 - Present |
| Herrera-Quiroz, Demian**Description:** **Current Status:** Medical Student, Mayo Clinic College of Medicine**Outcome:** 1 publication  | 10/2021 - Present |
| Patel, Shyam**Description:** Gave Mayo Clinic presentation during his summer fellowship (Foundation for Anesthesia Education and Research, MSARF Summer Program)**Current Status:** MS3 at Mayo Clinic**Outcome:** 1 publication; abstract to RISE conference | 12/2021 - Present |
| Clarke, Amelia**Description:** ASA Mentoring Grant Program, Racial Disparities in Cardiothoracic Surgery Candidacy: Utilization of Society of Thoracic Surgery Risk Score in Pre-Anesthesia Clinical Evaluation (Grant mentor)**Current Status:** MS4 Case Western Reserve University School of Medicine**Outcome:** Awarded ASA Mentoring Grant, https://www.asahq.org/about-asa/asa-awards-and-programs/asa-mentoring-program: Racial Disparities in Cardiothoracic Surgery Candidacy: Utilization of Society of Thoracic Surgery Risk Score in Pre-Anesthesia Clinical Evaluation. 1 publication, 2 presentations. | 01/2022 - 05/2023 |
| Vandenberg, Megan**Description:** **Current Status:** MS3, Medical College of Wisconsin**Outcome:**  | 06/2022 - 05/2023 |
| Caskey MD, Bryson**Description:** **Current Status:** PGY2, Mayo Clinic**Outcome:** Abstract accepted at American Society of Anesthesiologists Annual Meeting | 08/2022 - Present |
| Delafield MD, Nathan**Description:** **Current Status:** Senior Associate Consultant, Community Internal Medicine, MCA**Outcome:** CHAMP Grant | 09/2022 - Present |
| Bonner DPM, PhD, Timethia**Description:** **Current Status:** Research Associate, Center for the Science of Health Care Delivery, Rochester, MN**Outcome:**  | 10/2022 - Present |
| Burton MD, Brittany**Description:** **Current Status:** Clinical Fellow, OB Anesthesiology, UCLA**Outcome:** 4 publications | 10/2022 - Present |
| Pombo MD, Nicholas**Description:** **Current Status:** Transitional Year Resident, Mayo Clinic Arizona**Outcome:**  | 11/2022 - Present |
| Eromosele, Omeko**Description:** **Current Status:** MS4, Ross University School of Medicine**Outcome:**  | 02/2023 - Present |
| Hardeman, Myles**Description:** **Current Status:** Medical Student, Wayne State University School of Medicine**Outcome:** Evelyn Henley Scholar; Anesthesiology Section; National Medical Association; 2023. 1 publication | 03/2023 - Present |
| Islam MD, Zulqar**Description:** **Current Status:** Anesthesiology Resident, Medical College of Georgia at Augusta University, Augusta, GA**Outcome:**  | 03/2023 - Present |
| Azoba, Chuma**Description:** **Current Status:** PGY1, Ascension St. John**Outcome:** Publication under review | 04/2023 - Present |
| Clarke, Amelia**Description:** **Current Status:** Anesthesiology Residency at UCSD**Outcome:**  | 06/2023 - Present |
| Eko, Muambo**Description:** **Current Status:** Internal Medicine Residency at a program in New York**Outcome:**  | 06/2023 - Present |
| Vandenberg, Megan**Description:** **Current Status:** Anesthesia Residency, Medical College of Wisconsin**Outcome:** 1 publication, 2 presentations | 06/2023 - Present |
| Asebiode MD, David**Description:** **Current Status:** PGY1, Anesthesiology, University of Washington, Seattle, WA**Outcome:**  | 09/2023 - Present |
| Debeau MD, Michael**Description:** **Current Status:** PGY1, Preliminary Surgery, Detroit Medical Center, Detroit, MI**Outcome:**  | 09/2023 - Present |
| Elsarrag, Nader**Description:** **Current Status:** College Senior, University of Virginia. Applying to medical school.**Outcome:**  | 09/2023 - Present |

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| **Academic Career Development** |
| Leadership in Healthcare Improvement Program Cedars Sinai Medical Center  | 2018 |
| National Medical Association Academic Career Development Workshop National Institutes of Health  | 2021 |
| Ask/Tell/Ask Educator Development Workshop Cleveland Clinic Foundation  | 04/2021 |
| Health Disparities Research Institute ScholarVirtualU.S. Department of Health & Human Services, National Institutes of Health, National Institute on Minority Health and Health Disparities  | 2021 |
| I-DARE Curriculum Foundations: Exploration of Bias and Its Impact on Teaching and LearningVirtualMayo Clinic College of Medicine and Science  | 11/2021 |
| I-DARE Curriculum Foundations: Exploration of Bias and Its Impact on Teaching and Learning Mayo Clinic College of Medicine and Science  | 02/2022 |
| Apply to the Academy of Educational Excellence Take 5  | 03/2022 |
| Cooking up Effective Feedback Take 5  | 03/2022 |
| Creating Effective Written Evaluations Take 5  | 03/2022 |
| Engage Your Learners Using Poll Everywhere Take 5  | 03/2022 |
| One Minute Preceptor Take 5  | 03/2022 |
| Reducing Unconscious Bias: Writing Letters of Recommendation Take 5  | 03/2022 |
| Teaching High-Value Care Take 5  | 03/2022 |
| Teaching the Clinical Exam Take 5  | 03/2022 |
| Teaching, Self-Directed Learning, and Reflection Take 5  | 03/2022 |
| Telling the Patient's Story Take 5  | 03/2022 |
| Tips for Creating the Optimal Learning Environment Take 5  | 03/2022 |
| See Something, Say Something Take 5  | 03/2022 |
| Building Trust and Autonomy Take 5  | 04/2022 |
| Cultivating Learner Autonomy: Get in the Zone Take 5  | 04/2022 |
| How to Write Letters of Recommendation Take 5  | 04/2022 |
| Microaggressions in the Learning Environment Take 5  | 04/2022 |
| Professionalism Pivot for NURSES Take 5  | 04/2022 |
| Professionalism Pivot for TRAINEES Take 5  | 04/2022 |
| Providing Meaningful Written Feedback Take 5  | 04/2022 |
| Strategies for Supporting Learners Seeking Help Take 5  | 04/2022 |
| Strategies to Support Learner Well-Being Take 5  | 04/2022 |
| Teaching High-Value Care Take 5  | 04/2022 |
| Telling the Patient's Story Take 5  | 04/2022 |
| Unconscious BiasUpstander Training in Medical EducationMayo Clinic School of Graduate Medical Education  | 04/2022 |
| Upstander Training in Medical Education Mayo Clinic School of Graduate Medical Education  | 04/2022 |
| Improving Mentorship Experiences Take 5  | 04/2022 |
| HELP-Healing the Emotional Live of Peers Take 5  | 07/2022 |
| What’s in a Name? Take 5  | 08/2022 |
| Virtual Visit Teaching Encounters: Strategies for Success Take 5  | 01/2023 |
| Promoting a Learning Goal Orientation Take 5  | 12/2023 |
| Learning to Disagree: Navigating Differences Together Take 5  | 02/2024 |
| Diversity Matters Inclusive Instructional Content in the Learning Environment Take 5  | 03/2024 |
| See Something, Say Something: Title IX Considerations in Medical Education Take 5  | 04/2024 |
| Apply to the Academy of Educational Excellence Take 5  | 05/2024 |

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|  **Educational Activities** |
| **Diversity, Equity, Inclusion** I have a long history of advocating for equitable and quality care for underserved populations. This included volunteering with non-profit organizations, working with the Baltimore City Health Department, and interning with a state legislator – all with the common goal of improving access to quality care. In each of these roles[, I engaged with stakeholders, presenting them with available data, taking time to listen and understand their concerns](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3622061/), and collectively identifying solutions and strategies to address inequities in medical care. I am also a member of both the National Hispanic Medical Association and the National Medical Association (NMA), both organizations represent over 50,000 minority physicians and are leading voices *for parity and justice in medicine and the elimination of disparities in health*. I was fortunate to be appointed to the Council on Medical Legislation for NMA, and in this role I review and provide input on legislation that impacts underserved populations. I also serve on the diversity, equity, and inclusion committees for my national societies – the American Society and Anesthesiologists and the Society for Cardiovascular Anesthesiologists. An [editorial I wrote](https://pubs.asahq.org/monitor/article/85/5/38/115627/Leadership-Development-and-Succession-A-Critical), in part, led to the formation of the DEI committee for the Society for Cardiovascular Anesthesiologists. Since joining Mayo Clinic, I have also had the opportunity to work with organizational leaders to improve diversity among consultants (Belonging Matters Series at Mayo Clinic), served as a speaker for our department’s *Racism in Medicine* grand rounds, and given lectures across departments, and at several institutions discussing perioperative health disparities and strategies that systems can implement to reduce disparities in service of advocating for patients who face barriers to seeking or receiving care. Additionally, I serve on my department’s DEI committee, as the health equity physician lead for Mayo Clinic Arizona, and the Enterprise Medical Director for the Mayo Clinic Office of Health Equity and Inclusion (OHEI). OHEI works collaboratively to support and ensure Mayo Clinic’s commitment to inclusivity and health equity to the 1 million patients we serve at 19 hospitals.My commitment to DEI is also reflected in my research activities. During my public health doctoral studies, I obtained a Certificate in Health Disparities and Health Inequities; this certificate program *trained individuals to identify the underlying causes of health inequalities and how to develop and implement effective solutions*. My research over the last decade has broadly focused on identifying social determinants and structural drivers of health that contribute to health disparities and health inequities. For example, I published a seminal study in 2021 in the *American Journal of Public He*alth that [identified a health data disparity in opioid-involved overdose deaths](https://ajph.aphapublications.org/doi/abs/10.2105/AJPH.2021.306322), such that African American and Hispanic persons were more likely than non-Hispanic White persons to have opioid-involved overdose deaths misclassified. Misclassified and missing data are likely to have a synergistic negative impact on the allocation of resources and preventive efforts and further health disparities. I have also published on barriers to diversifying the medical workforce, the impact of seminal race events on Black medical students’ mental health, and compensation differences by race and ethnicity among anesthesiologists. Lastly, my commitment is demonstrated through mentoring students and trainees underrepresented in medicine at all stages which is discussed in other areas. |
| **Mentorship**In addition to formal mentorship of medical students, graduate students, and resident/fellows, Dr. Milam also participates in mentorship programs and efforts to improve diversity in science, technology, engineering, and mathematics (STEM), locally and nationally including the Plummer Scholars program at Mayo Clinic, Medical Specialty Seminars at Wayne State University School of Medicine, the Board of Directors Mentorship program for the Student National Medical Association (SNMA), and the American Society of Anesthesiologists Medial Student Anesthesia Research Fellowship. Additionally, he organizes a STEM speaker series at Baltimore City College and a virtual anesthesiology journal club. Dr. Milam also presents at many forums about the importance of mentorship, finding the right mentor, and becoming a physician-scientist including podcasts (ASA’s Resident in Room Podcast, Black Doctors Podcast) and formal presentations (Association of University Anesthesiologists’ Webinar, SNMA, Society of Cardiovascular Anesthesiologists, ASA Foundation for Anesthesia Education and Research [FAER], and the Pathways to Physician Diversity National Summit). As far as formal mentorship of learners and junior faculty, this has resulted in publications and grant awards. He has a goal for 60% of his publications to have a learner as a co-author (15 of his last 20 peer-reviewed publications include a learner); ideally the learner will see the project from idea to dissemination; this was accomplished with two ASA FAER students that rotated at Mayo Clinic: Megan Vandenberg  (1st authored publication in *Anesthesia & Analgesia*) and Shyam Patel (1st authored publication under review) as well as another mentee, Amelia Clarke (1st authored editorial in *Anesthesia & Analgesia*; grant award from the ASA). Dr. Milam is beginning to peer-mentor and collaborate with junior faculty which has also resulted in presentations, publications, and grant awards (Dr. Nathan Delafield, CHAMP Award [$50,000] from Mayo Clinic). |
| Mayo Plummer Scholars: To prepare and empower pre-medical undergraduate students from backgrounds historically underrepresented in medicine and science for a career in medicine through a comprehensive summer program centered on exploration of medical specialties, capacity building, and MCAT test preparation. |

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| **Institutional/Departmental Administrative Responsibilities, Committee Membershipsand Other Activities** |
| **Mayo Clinic** |
| Mayo Clinic |  |
| Belonging Matters: Trends and Best Practices to Support Black Physicians |  |
| Panelist | 12/2022 |
| Planning Committee |  |
| Member | 12/2022 |
| Mayo Clinic Quality Leadership Subcommittee |  |
| Member | 05/2023 - Present |
| Midwest Commitment Against Racism |  |
| Grant Reviewer | 2022 - Present |
| Practice Health Equities & Inclusion |  |
| Chair | 2023 - Present |
| William Worrall Mayo Scholars Program |  |
| Faculty | 05/2023 |
| Mayo Clinic Board of Governors |  |
| People and Culture Committee - Mayo Clinic |  |
| Equity, Inclusion and Diversity Oversight Committee - Mayo Clinic |  |
| Member | 09/2022 - Present |
| Mayo Clinic Committees |  |
| Mayo Clinic Clinical Practice Committee |  |
| Mayo Clinic Complex Behavior Committee |  |
| Member | 07/2023 - Present |
| Outpatient Practice Subcommittee |  |
| Member | 05/2023 - Present |
| **Mayo Clinic in Arizona** |
| Department of Anesthesiology and Perioperative Medicine |  |
| Anesthesia Residency Program |  |
| Interviewer | 2022 |
| Performance Evaluation Committee |  |
| Member | 2023 - Present |
| DEI Committee |  |
| Member | 2022 - Present |
| Mayo Clinic Arizona Committees |  |
| Executive Operations Team - Arizona |  |
| Clinical Practice Committee - Arizona |  |
| Member | 2023 - Present |
| Personnel Committee |  |
| Diversity Subcommittee |  |
| Member | 09/2022 - Present |
| Mayo Clinic Cancer Center |  |
| Mayo Clinic Cancer Center - Arizona |  |
| Executive Steering Committee |  |
| Member | 2023 - Present |
| Mayo Clinic College of Medicine and Science |  |
| Office for Education Diversity, Equity & Inclusion (OEDEI) |  |
| Undergraduate Plummer Plus Scholars Program |  |
| Faculty | 06/2023 |
| Mayo Clinic Committees |  |
| Discipline/Disease Oriented Groups (DOGs) - ARZ |  |
| Anesthesia, Critical Care, Emergency Department, and Surgical Specialties |  |
| Member | 2023 - Present |
| **Activities at Other Institutions** |
| Cedars-Sinai Medical Center |  |
| COVID-19 Airway Response Team |  |
| Member | 2020 |
| Department of Anesthesiology |  |
| Junior Chief Resident | 2018 - 2019 |
| Diversity Committee |  |
| Member | 2019 - 2020 |
| Graduate Medical Education Committee |  |
| Member | 2018 - 2020 |
| House Staff Executive Committee |  |
| Member | 2017 - 2020 |
| Co-Chair | 2018 - 2019 |
| Medical Executive Committee |  |
| Member | 2018 - 2020 |
| Cleveland Clinic Foundation |  |
| Fellowship Evaluation Committee |  |
| Member | 2021 |
| Johns Hopkins Bloomberg School Of Public Health |  |
| Black Graduate Student Association |  |
| President | 2010 - 2011 |
| Johns Hopkins Urban Health Institute |  |
| Abstract Reviewer | 2010 |
| Mental Health Student Group |  |
| Chair | 2010 - 2011 |
| Student Assembly |  |
| Mental Health Representative | 2008 - 2009 |
| Community Affairs |  |
| Vice President | 2009 - 2010 |
| Student Diversity |  |
| Ambassador | 2009 - 2010 |
| Student Outreach Center |  |
| Student Governing Board |  |
| Member | 2010 - 2012 |
| The Johns Hopkins University |  |
| Alumni Association |  |
| Baltimore Chapter |  |
| Community Service |  |
| Chair | 2009 - 2012 |
| Executive Committee |  |
| Member | 2009 - 2012 |
| Class of 2008 Reunion |  |
| Programming Chair | 2013 |
| Wayne State University School of Medicine |  |
| Interviewer | 2023 - Present |
| Alumni Association Board of Governors |  |
| Member | 2022 - Present |
| Black Medical Association |  |
| Internal Vice President | 2015 - 2016 |
| Reach Out to Youth |  |
| Coordinator | 2013 - 2014 |
| Treasurer | 2013 - 2014 |
| Board of Student Organizations |  |
| President | 2015 |
| Executive Student Senate |  |
| Member | 2015 |
| LCME Student Committee |  |
| Member | 2015 - 2016 |
| MPH Internal Advisory Committee |  |
| Member | 2014 - 2015 |

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| **Presentations Extramural** |
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| **National or International** |

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| **Invited** |

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| Violence Exposure during Adolescence and Young AdulthoodFrom the Cradle to the Grave: Physician Leadership in Violence Prevention and Intervention Panel113th Annual National Medical Association Convention and Scientific AssemblyDetroit, Michigan | 07/2015 |
| Sowing Seeds Specialty Series Program: AnesthesiologyStudent National Medical Association | 07/2020 |
| Addressing Alcohol Outlet Density through a Race Equity LensUS Alcohol Policy Alliance | 01/2021 |
| SpeakerBlack Men Medical Doctors Virtual Speaker SeriesBloom Project Inc. | 2021 |
| Understanding the Struggle of Patient Access to Perioperative Medical CareAmerican Osteopathic College of Anesthesiologists Midyear Seminar | 03/2021 |
| When Your Greatest Obstacle becomes Yourself: Understanding and Overcoming Imposter SyndromeStudent National Medical Association Annual Medical Education Conference | 04/2021 |
| Perioperative Health DisparitiesVirtual presentation due to COVID-19National Medical Association 2021 Virtual Convention and Scientific Assembly | 07/2021 |
| Point-of-Care Ultrasound ForumSession Moderator and Presenter: Airway and Gastric Ultrasound Anesthesiology SectionNational Medical Association 2021 Virtual Convention and Scientific Assembly | 07/2021 |
| Point of Care Ultrasound (POCUS) Forum, Anesthesiology SectionFacultyNational Medical Association (Virtual) | 07/2021 |
| Virtual PresentationIncludes students and residents from programs all across the countryAnesthesiology Journal Club | 01/2022 |
| ModeratorFellow and Resident Poster SessionSociety for Cardiovascular Anesthesiologists 44th Annual Meeting and WorkshopsPalm Springs, California | 05/2022 |
| Health Disparities and AnesthesiaCMECurrent Reviews | 07/2022 |
| Lung/Pleura: Every Breath you Take – We’ll be WatchingFacilitator, Point of Care Ultrasound WorkshopNational Medical Association 2022 Annual Convention and Scientific AssemblyAtlanta, Georgia | 07/2022 |
| Point of Care Ultrasound (POCUS) Forum, Anesthesiology SectionFacultyNational Medical AssociationAtlanta, Georgia | 07/2022 |
| Increasing Value of Anesthesiology through Public HealthAssociation of University Anesthesiologists (AUA) 2022 Webinar Series | 08/2022 |
| MD/PhD Perspectives in Diversity Medical Education and Biomedical ServicesPanelistPathways to Physician Diversity: A National SummitScottsdale, Arizona | 10/2022 |
| FAER/ARMA Sponsored Mentoring SessionPanelistASA Annual Conference 2022New Orleans, Louisiana | 10/2022 |
| FAER/eSAS: A Day for New ResearchersModerator for Medical Student and Resident Poster PresentationsASA Annual Conference 2022New Orleans, Louisiana | 10/2022 |
| Mayo Clinic Office of Health Equity and Inclusion OverviewDefense Health Board Health Systems SubcommitteeU.S. Department of Defense | 01/2023 |
| Mission Possible - Topic: Fellow to Private Practice SCA Abstract ReviewPanelistSociety for Cardiovascular Anesthesiologists Annual MeetingPortland, Oregon | 05/2023 |
| ModeratorFellow and Resident Poster Session 2Society for Cardiovascular Anesthesiologists Annual MeetingPortland, Oregon | 05/2023 |
| Virtual Journal Club - Faculty ModeratorThe Medical Student Anesthesia Research Fellowship (MSARF) Summer Program, Foundation for Anesthesia Education and ResearchAmerican Society of Anesthesiologists | 06/2023 |
| 5 Impactful Articles, Anesthesiology Subspecialty Forum IIModeratorNational Medical AssociationNew Orleans, Louisiana | 07/2023 |
| Point of Care Ultrasound (POCUS) Forum, Anesthesiology SectionModeratorNational Medical AssociationNew Orleans, Louisiana | 07/2023 |
| Point of Care Ultrasound (POCUS) Forum, Anesthesiology SectionFacultyNational Medical AssociationNew Orleans, Louisiana | 07/2023 |
| Finding the Right Research Question and Path, Right Environment and Culture, and Right Mentor. A Day for New ResearchersFoundation for Anesthesia Education and Research. American Society of Anesthesiologists Annual MeetingSan Francisco, California | 10/2023 |
| Table Captain, A Day for New ResearchersFoundation for Anesthesia Education and Research. American Society of Anesthesiologists Annual MeetingSan Francisco, California | 10/2023 |
| Advancing Academics to Leadership (A2L) ProgramPanelistMayo Clinic | 04/2024 |
| DEI Scholars ProgramPanelistSociety of Cardiovascular Anesthesiologists Annual Meeting | 04/2024 |
| Resident and Fellow Poster SessionModeratorSociety of Cardiovascular Anesthesiologists Annual Meeting | 04/2024 |
| Mission Possible - Topic: Fellow to AcademiaPanelistSociety for Cardiovascular Anesthesiologists Annual MeetingToronto, Ontario, Canada | 04/2024 |
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| **Oral** |

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| Zoning as a Public Health Tool to Prevent and Reduce Violence: A Focus on Problem Alcoholic Beverage Sellers and Reducing Alcohol Outlet DensityWorld Health SummitBerlin, Germany | 11/2013 |
| Advances in GIS Methods for Addiction ResearchThe Use of GIS and GPS Technology in Addiction Research Workshop76th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Using Zoning to Improve Public Health: Transforming the Alcohol Environment15th International Conference on Urban HealthKampala, Uganda | 11/2018 |
| Association between Antisocial Behavior Polygenic Scores and Adolescent Subclinical and Clinical Externalizing Behaviors Society for Research in Child Development 2019 Biennial Meeting | 04/2019 |
| The Interplay between a Conduct Disorder Polygenic Risk Score and Community Disadvantage in Predicting Marijuana Use DisordersSociety for Research in Child Development 2019 Biennial Meeting | 04/2019 |
| Teacher-Student Incongruence in Perceptions of School Equity27th Annual Meeting for the Society for Prevention ResearchSan Francisco, California | 05/2019 |
| Derivation and Validation of Clinical Phenotypes of the Cardiopulmonary Bypass-induced Inflammatory ResponsePerioperative Care Scientific Session: Year in Review - What is the Other Side ReadingAmerican Association for Thoracic Surgery’s Annual Meeting | 2022 |
| Anesthesiology Journal ClubVirtual PresentationNational Medical Association, Anesthesiology Section | 03/2022 |
| Anesthesiology Journal ClubVirtual PresentationNational Medical Association, Anesthesiology Section | 04/2022 |
| Black Men in MedicineAnnual Medical Education ConferenceStudent National Medical SocietyOrlando, Florida | 04/2022 |
| Preparing for Your First Job: What You Should Know!Facilitator; Women in Cardiothoracic Anesthesia (WICTA) Professional Development Mentoring ProgramSociety of Cardiovascular Anesthesia | 04/2022 |
| 2022 Road to Residency - Anesthesia PanelTour for Diversity in Medicine (Virtual Presentation) | 08/2022 |
| Diversity Science: Creating a Culture that Supports Health EquityC2Dream Monthly Health Equity Seminar Series | 03/2023 |
| Black Men in Medicine: A Physician PerspectiveAnnual Medical Education Conference (AMEC); Student National Medical AssociationHartford, Connecticut | 04/2023 |
| Brilliance Embodied: Evaluating the Mission and Revitalizing Our PurposeAnnual Medical Education Conference (AMEC); Student National Medical AssociationHartford, Connecticut | 04/2023 |
| Not Yet: Utilizing the Growth Mindset to Achieve Your DreamsAnnual Medical Education Conference (AMEC); Student National Medical AssociationHartford, Connecticut | 04/2023 |
| Social Determinants of Health, Health Care Disparities, and Health Inequities: The Role of Hospitalists; Clinical Challenges in Hospital MedicineAmerican College of Osteopathic Internists 2023 Virtual Spring Meetings | 05/2023 |
| Providers and Payer Approaches to Addressing Health DisparitiesWorkgroup for Electronic Data Interchange (WEDI) Spring Conference (Virtual Meeting) | 05/2023 |
| Redefining Quality: The Role of Equity in Patient CareMayo Clinic EverybodyIn Conversations (Online) | 03/2024 |
| Providing Care to Vulnerable Populations Health Services Research What Does this Mean and Why Might it be helpful in Perioperative Cardiovascular Medicine?Society of Cardiovascular Anesthesiologists Annual Meeting | 04/2024 |
| Promoting Population Health Through Innovative Community Engagement: Case Studies and Lessons LearnedInternational Anesthesia Research ConferenceSeattle, Washington | 05/2024 |
| The Anesthesiologist as a Public Health Physician: The Public Health Role of in Preventing Substance MisuseInternational Anesthesia Research ConferenceSeattle, Washington | 05/2024 |
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| **Poster** |

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| Environmental Deterioration and Childhood Health Outcomes in Baltimore City Children2nd Annual Conference for the Dissemination of Student Research on Addictions, Infectious Disease, and Public HealthBaltimore, Maryland | 04/2008 |
| Evaluating the Impact of Alcohol Outlet Proximity to Schools on Children's Exposure to Violence, Alcohol, Tobacco, and other Drugs: Implications for Alcohol Policy and Zoning EnforcementAnnual Meeting of the Association of American Geographers | 03/2009 |
| Environmental Indicators and Depression in Urban School Children3rd Annual Conference for the Dissemination of Student Research on Addictions, Infectious Disease, and Public HealthBaltimore, Maryland | 04/2009 |
| Spatial Analysis of Injection Drug Use, Drug Treatment, and HIV in Baltimore City71st Annual Meeting of the College on Problems of Drug DependenceReno, Nevada | 06/2009 |
| Spatial Analysis of Injection Drug Use, Drug Treatment, and HIV in Baltimore CityAnnual Meeting of the Association of American Geographers | 04/2010 |
| Neighborhood and School Safety, Neighborhood Violence, and Academic Achievement in Urban School Children4th Annual Conference for the Dissemination of Student Research on Addictions, Infectious Disease, and Public HealthBaltimore, Maryland | 05/2010 |
| Effective Strategies for Working with Municipal Government Officials to Reduce Alcohol-Related Violence among School Children: Building Bridges from Research to Policy18th Annual Meeting for the Society for Prevention ResearchDenver, Colorado | 06/2010 |
| Gender Differences in the Relationship between Neighborhood Environment and Childhood Depression in Urban School Children18th Annual Meeting for the Society for Prevention ResearchDenver, Colorado | 06/2010 |
| Gender Differences in the Relationship between Neighborhood Environment and Childhood Depression: Results from a Community Epidemiologic Study of Predominantly African American Children72nd Annual Meeting of the College on Problems of Drug DependenceScottsdale, Arizona | 06/2010 |
| Novel Methods to Assess Violence, Alcohol, and Other Drug Exposure at the Neighborhood-Level: The Neighborhood Inventory for Environmental Typology (NIfETy) Method33rd Annual Meeting for the Research Society on AlcoholismSan Antonio, Texas | 06/2010 |
| The Growth of Neighborhood Hazards and Youthful Drug Involvement72nd Annual Meeting of the College on Problems of Drug DependenceScottsdale, Arizona | 06/2010 |
| Environmental Factors Influencing Health Disparities in Substance Use Across the Life Span: Implications for Drug Abuse PreventionAmerican Psychological Association Annual ConferenceSan Diego, California | 08/2010 |
| Mobilizing for Policy: Using Community-Based Participatory Research to Ban the Sale of Single CigarsInternational Society for the Prevention of Tobacco Induced DiseasesBoston, Massachusetts | 09/2010 |
| Improving HIV Preventive Services through Geospatial Analysis9th Annual International Conference on Urban HealthNew York, New York | 10/2010 |
| Reducing Alcohol-Related Violence among School Children9th Annual International Conference on Urban HealthNew York, New York | 10/2010 |
| The Growth of Neighborhood Disorder and Marijuana Use among Urban Adolescents Transitioning into Young Adulthood73rd Annual Meeting of the College on Problems of Drug DependenceHollywood, Florida | 06/2011 |
| Increasing Enrollment in the Maryland Children's Health Program through the National School Lunch Program10th Annual Meeting of the International Conference on Urban HealthBelo Horizonte, Brazil | 11/2011 |
| Methods for Community Mapping, Surveillance, Planning and PolicyWorkshop10th Annual Meeting of the International Conference on Urban HealthBelo Horizonte, Brazil | 11/2011 |
| Neighborhood Disorder and Mental Health among Baltimore City ResidentsNational Conference on Health StatisticsWashington, District of Columbia | 08/2012 |
| Examining the Built Environment of Schools Using the School Assessment for Environmental Typography (SAfETy)21st Annual Meeting for the Society for Prevention ResearchSan Francisco, California | 05/2013 |
| Risk for Exposure to Alcohol, Tobacco, and Other Drugs on the Route to and from School: The Role of Alcohol Outlets21st Annual Meeting for the Society for Prevention ResearchSan Francisco, California | 05/2013 |
| Alcohol Environment, Perceived Safety, and Exposure to Alcohol, Tobacco, and Other Drugs in Early Adolescence75th Meeting of the College on Problems of Drug DependenceSan Diego, California | 06/2013 |
| Association of Objective and Perceived Neighborhood Characteristics with Tobacco Use Among Young Adults75th Meeting of the College on Problems of Drug DependenceSan Diego, California | 06/2013 |
| Monitoring Alcohol Abuse Prevention Legislation75th Meeting of the College on Problems of Drug DependenceSan Diego, California | 06/2013 |
| Neighborhood Alcohol Outlets and the Association with Violent Crime in one Mid-Atlantic City: The Implications for Zoning Policy46th Annual Meeting of the Society of Epidemiologic ResearchBoston, Massachusetts | 06/2013 |
| Alcohol Outlet Polices to Reduce Crime and Improve Student Safety22nd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2014 |
| Exploring the Effects of Alcohol and Marijuana Use on Experience of Teen Dating Violence among High School Students in Maryland76th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Income Variability by Race in Tobacco Outlet Density in Maryland76th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Neighborhood Environment and Marijuana Use in Urban Young Adults76th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Not in My Backyard: A Comparative Analysis of Crime Around Drug Treatment Centers, Liquor Stores, and Convenience Stores17th Congress of ISBRABellevue, Washington | 06/2014 |
| Not in My Backyard: A Comparative Analysis of Crime Around Drug Treatment Centers, Liquor Stores, and Convenience Stores37th Annual Research Society on Alcoholism Scientific Meeting | 06/2014 |
| Risk Factors for Early Alcohol Initiation: Peers, Attitudes toward Substance Use, and Environment17th Congress of ISBRABellevue, Washington | 06/2014 |
| Risk Factors for Early Alcohol Initiation: Peers, Attitudes toward Substance Use, and Environment37th Annual Research Society on Alcoholism Scientific Meeting | 06/2014 |
| Tobacco Outlets and Tobacco Use in Baltimore City from 2004-200976th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Trajectories of Neighborhood Disorder, Alcohol Initiation, and Alcohol Use among Urban Adolescents76th Meeting of the College on Problems of Drug DependenceSan Juan, Puerto Rico | 06/2014 |
| Child and Youth Mortality in Baltimore City, the Geography of Disadvantage142nd Annual Meeting of the American Public Health AssociationNew Orleans, Louisiana | 11/2014 |
| Clustering of Adolescent Marijuana Use in Low-Income, Urban Neighborhoods23rd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2015 |
| Measuring School Security23rd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2015 |
| Preparing Students for Success: How Preschool Expansion may have Improved Elementary School Outcomes for Children in Baltimore City, Maryland23rd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2015 |
| The Moderating Role of Spirituality in the Relationship between School-Related Stress and Substance Use23rd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2015 |
| Using GIS and Observational Data Collection to Inform Alcohol Outlet Zoning Legislation23rd Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2015 |
| National Trends in Surgical Treatment Patterns of Proximal Humerus Fractures from 2002-2012Michigan Orthopaedic Society Annual Scientific MeetingMackinac Island, Michigan | 06/2015 |
| A Socio-Ecological Examination of the Association between School-Related Stressors and ObesitySociety for Research on Adolescence Biennial MeetingBaltimore, Maryland | 04/2016 |
| Place Matters: Understanding the Role of the Neighborhood Environment on Urban African American Adolescent Marijuana UseSociety for Research on Adolescence Biennial MeetingBaltimore, Maryland | 04/2016 |
| Evaluating Nighttime Observational Measures of Neighborhood Disorder: Validity of the Nighttime NIfETy Assessment24th Annual Meeting for the Society for Prevention ResearchPalm Springs, California | 05/2016 |
| Finding Significant Stress Episodes in Discontinuous Time Series of Rapidly Varying Mobile Sensor DataACM CHI 2016 ConferenceSan Jose, California | 05/2016 |
| Google Earth Validation of Environmental Measures of Risk and Health Inequality24th Annual Meeting for the Society for Prevention ResearchPalm Springs, California | 05/2016 |
| Ninety Minutes into the Future: Predicting Momentary Mood from Several Hours of GPS Tracks24th Annual Meeting for the Society for Prevention ResearchPalm Springs, California | 05/2016 |
| Obese and Overweight Youth: Risk for Experiencing Bullying Victimization and Internalizing Symptoms25th Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2017 |
| The Impact of the Urban Neighborhood Environment on Longitudinal Transitions in Marijuana Use during Emerging Adulthood79th Annual Meeting for the College on Problems of Drug DependenceMontreal, Quebec, Canada | 06/2017 |
| The Contributions of Genetic and Contextual Factors to Alcohol and Marijuana Use and Disorders in African American Young AdultsNIDA Genetic Consortium MeetingRockville, Maryland | 01/2018 |
| Alcohol Policies to Reduce Youth Violence: Lessons Learned from a Cross-Sectional Analysis18th Annual Alcohol Policy ConferenceWashington, District of Columbia | 04/2018 |
| This is Baltimore! Examining the Effects of the New 300-Foot Rule n Alcohol Outlet Density2018 Annual Meeting of the Association of American Geographers | 04/2018 |
| Individual and Neighborhood Factors Associated with Sexual Risk Typologies in Two Urban African American Longitudinal Cohorts26th Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2018 |
| Trajectories of Violent Behavior during Adolescence Among Males Living in Urban Neighborhoods26th Annual Meeting for the Society for Prevention ResearchWashington, District of Columbia | 05/2018 |
| Intraoperative Pulmonary Embolism Diagnosed by TEE in a Morbidly Obese Patient Undergoing Orthopedic Surgery Following Motor Vehicle CrashAmerican Society of Anesthesiologists' Annual MeetingSan Francisco, California | 10/2018 |
| Associations between Residential Mobility, Scholastic and Social Competence, and Depressive Symptoms Among African American YouthSociety for Research in Child Development 2019 Biennial Meeting | 04/2019 |
| Associations Between Residential Mobility, Scholastic and Social Competence, and Depressive Symptoms Among African American Youth27th Annual Meeting for the Society for Prevention ResearchSan Francisco, California | 05/2019 |
| Does Early Onset Marijuana Use Increase the Risk of Young Adult Anxiety and Depression in Urban Youth? Evidence from a Baltimore City Cohort27th Annual Meeting for the Society for Prevention ResearchSan Francisco, California | 05/2019 |
| Multimodal Approach to Managing Pain in Patients Undergoing Thoracic and Lumbar Spine Surgery: Utility of the Erector Spinae Plane BlockAmerican Society of Anesthesiologists' Annual Meeting | 10/2020 |
| Effect of Low Dose Hydroxyethyl Starch 13//0.4 on Factor VIII and von Willebrand's Factor in Cardiac Surgery43rd Annual Society of Cardiovascular Anesthesiologists Annual Meeting | 04/2021 |
| Racial Differences in Compensation among U.S. Anesthesiologists: Results of a National SurveyVandenberg M (presenter)American Society of Anesthesiologists Annual ConferenceAtlanta, Georgia | 10/2022 |
| Individual- and Community-level Socioeconomic Status and Renal Transplant OutcomesPatel S (presenter)Western Anesthesia Resident ConferenceScottsdale, Arizona | 04/2023 |
| Carcinoid Heart Disease: Anesthetic Considerations for Percutaneous Pulmonary Valve InsertionBinder Jr WJ (presenter)Society of Cardiovascular Anesthesiologists Annual MeetingPortland, Oregon | 05/2023 |
| Acute Unilateral Pulmonary Edema Following Attempted ASD Closure. Medically Challenging CasesAmerican Society of Anesthesiologists Annual MeetingSan Francisco, California | 10/2023 |
| Individual- and Community-level Socioeconomic Status and Renal Transplant OutcomesAmerican Society of Anesthesiologists Annual MeetingSan Francisco, California | 10/2023 |
| Use of Ultrasound-guided Stellate Ganglion Block to Treat Refractory Ventricular Tachycardia. Medically Challenging CasesAmerican Society of Anesthesiologists Annual MeetingSan Francisco, California | 10/2023 |
| The Native American Liver Transplant Experience at a Large southwestern Liver Transplant CenterAmerican Association for the Study of Liver Diseases | 11/2023 |
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| **Regional** |

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| **Invited** |

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| TestimonyEconomic Matters CommitteeMaryland General Assembly | 2007 |
| SCHIP ReauthorizationInvited by Health CommissionerMayor's Press Conference | 2008 |
| TestimonyHealth & Government Operations CommitteeMaryland General Assembly | 2009 |
| Youth Violence in Baltimore CityBaltimore City Data DayBaltimore City Department of PlanningBaltimore, Maryland | 07/2010 |
| Public Health PanelBaltimore City Data DayBaltimore City Department of PlanningBaltimore, Maryland | 07/2011 |
| Neighborhood Environment and Adolescent Risk BehaviorsDepartment of Family Medicine and Public Health SciencesWayne State UniversityDetroit, Michigan | 03/2015 |
| Acute Pain Control and Controlled Substances SafetyMD-RN AllianceCedars-Sinai Medical Center | 08/2018 |
| My Journey in MedicineSTEM Speaker SeriesBaltimore City College High School | 10/2020 |
| Detecting Environmental Injustices: How Built Environment Research can Inform Anti-racist PolicyCourse: From Data to Action: Analyses to Link Public Health Research and Policy Decision-makingUNC Gillings School of Global Health | 03/2021 |
| Underrepresented in Medicine Physician PanelHealth WeekUniversity of Arizona College of Medicine | 11/2021 |
| Surviving Imposter SyndromeRegional VII Medical Education ConferenceStudent National Medical Association | 01/2022 |
| Evaluating the Built Environment to Prevent Youth Substance AbuseSpotlight SeriesJohns Hopkins Bloomberg School of Public Health | 02/2022 |
| Exposure to Racial Equity Research in MedicineBreak the Glass Mentorship ProgramDepartment of Radiology, Stanford Medicine | 02/2022 |
| Medical Specialty Webinar - AnesthesiologyWayne State Medical Alumni Association | 02/2022 |
| Arizona’s Transformative Journey to Health EquityKeynote PresentationArizona Health Equity ConferenceTempe, Arizona | 09/2023 |
| Career Options after Residency and TrainingFaculty/PanelistArizona Society of Anesthesiologists Annual MeetingChandler, Arizona | 01/2024 |
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| **Oral** |

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| Does a Perioperative Surgical Home for Spine Patients Improve Clinical Outcomes?55th Annual Meeting for the Western Anesthesia Residents' ConferencePortland, Oregon | 04/2017 |
| Resident Problem-based Learning Discussion: Post-Cardiopulmonary Bypass ComplicationsPresented to residentsCleveland Clinic Foundation | 10/2020 |
| Fighting for Justice and Health EquityPanelist; provided remarks, A Voice for Change: The Power of Public HealthJohns Hopkins Bloomberg School of Public Health | 2022 |
| The Mental Health Legacy of Today's Public Health ChallengesPanelist; provided remarks, A Voice for Change: The Power of Public HealthJohns Hopkins Bloomberg School of Public Health | 2022 |
| Anesthesiology Medical Specialty WebinarWayne State University School of Medicine | 02/2022 |
| Evaluating the Built Environment to Prevent Youth Substance AbuseSpotlight SeriesJohns Hopkins Bloomberg School of Public Health | 02/2022 |
| Exposure to Racial Equity Research in MedicineBreak the Glass Mentorship ProgramDepartment of Radiology, Stanford Medicine | 02/2022 |
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| **Poster** |

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| Addressing the Opioid Epidemic: The Association between Preemptive Analgesia, Pain Control, and Opioid Use3rd Annual GME Patient Safety/Quality Improvement DayCedars Sinai Medical CenterLos Angeles, California | 05/2018 |
| Delayed Emergence following a Bilateral Thyroidectomy56th Annual Meeting for the Western Anesthesia Residents' ConferenceSan Diego, California | 05/2018 |
| Enhanced Recovery after Trauma (ERAT): Decreasing the Burden of Opioid Abuse and Misuse3rd Annual GME Patient Safety/Quality Improvement DayCedars Sinai Medical CenterLos Angeles, California | 05/2018 |
| Intraoperative Pulmonary Embolism Diagnosed by TEE in a Morbidly Obese Patient Undergoing Orthopedic Surgery following Motor Vehicle Crash56th Annual Meeting for the Western Anesthesia Residents' ConferenceSan Diego, California | 05/2018 |
| Judge for the Poster SessionHosted by MCA Anesthesiology Residency ProgramWestern Anesthesia Resident ConferenceScottsdale, Arizona | 03/2023 - 04/2023 |

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| **Visiting Professorship** |
| **Visiting Professorships** |
| Preoperative Evaluation and Perioperative Health DisparitiesFamily Medicine Residency ProgramMichigan State University, College of Human Medicine | 02/2022 |
| Journal ClubHFH ResidentsHenry Ford Health, Department of Anesthesiology | 10/2022 |
| Perioperative Health Care DisparitiesGrand RoundsHenry Ford Health, Department of Anesthesiology | 10/2022 |
| Understanding the Role of Anesthesiologists in Addressing Health Care DisparitiesDepartment of Cardiothoracic AnesthesiologyCleveland Clinic Foundation, Anesthesiology Institute | 01/2023 |
| Perioperative Health DisparitiesDepartment of AnesthesiologyWayne State University School of Medicine | 01/2023 |
| Disparities in Health CareDepartment of Cardiothoracic AnesthesiologyCleveland Clinic Foundation, Anesthesiology Institute | 03/2023 |
| Clinical Ethics Case ConferenceDuke Trent CenterDuke UniversityDurham, North Carolina | 12/2023 |
| Improving the Delivery of Perioperative Care for Patients Undergoing Solid Organ TransplantationDuke Transplant CenterDuke UniversityDurham, North Carolina | 12/2023 |
| Perioperative Health Care Disparities: The Role of AnesthesiologistsDepartment of Anesthesiology, Critical Care and Pain MedicineUniversity of Texas HealthHouston, Texas | 03/2024 |

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| **Clinical Practice, Interests, and Accomplishments** |
| Cardiothoracic Anesthesiology |
| Health Disparities and Health Inequities |
| Preventive Medicine |
| Regional Anesthesia and Acute Pain Medicine |

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| **Research Interests and Accomplishments** |
| Effects of exposure to violence and environmental stress on children and families |
| Evaluation of community-level interventions |
| Risk and protective factors |
| Substance use prevention |
| Survey design |

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| **Quality Initiatives** |

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| **Quality** |   |
| QI project at Cleveland Clinic: Safe placement of transvenous pacing catheters for cardiac surgery patients | 01/2021 - 06/2021 |
| QI project at Cedars-Sinai Medical Center: Opioid medication safety | 07/2018 |

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| **Research Grants Awarded** |

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| **Active Grants** |
| **Federal** |
| Principal Investigator | Loan Repayment Program (LRP) Award. Funded by NIH/National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) | 07/2022 - 07/2024 |
| Co-Investigator | Social and Relational Capital to overcome Social Determinants of Health CHAMP Award. Funded by CCaTS NIH | 01/2023 - 12/2023 |
| **Mayo Clinic** |
| Program Director / Principal Investigator | Individual and Structural-level Determinants associated with Racial/Ethnic Disparities among Transplant Patients . Funded by Development - Benefactor Funded Career Development Award. () | 07/2022 - 06/2025 |
| Co-Investigator | Utility of Digital Therapeutics in management of Type 2 Diabetes: A Feasibility Study. Funded by Mayo Clinic Center for Digital Health | 06/2023 - 12/2024 |
| **Other** |
| Investigator | Understanding Unconscious Bias in the Residency Interview Process (delayed due to pandemic). Funded by ASA Mentoring Grant Program | 10/2019 - 10/2022 |

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| **Completed Grants** |
| **Federal** |
| Co-Investigator | Multilevel Moderators of Drugs, Violence, Poverty, and HIV Among Black Youth and Young Adults Living in Baltimore. Funded by HHS/NIH/National Institute on Drug Abuse (NIDA). (5R01DA032550) | 08/2016 - 07/2019 |
| **Mayo Clinic** |
| Principal Investigator | Characteristics and Patient-Clinician Communication during Cardiology Telemedicine Clinical Encounters: Opportunities for Intervention. Funded by Mayo Clinic Department of Anesthesiology and Perioperative Medicine Small Grant Program and Office of Research Equity, Inclusion, and Diversity  | 06/2022 - 11/2022 |
| **Other** |
| Project Leader | Barriers to HIV Testing Among Residents of a High Risk African American Community. Funded by National Institute on Drug Abuse. (R36DA022949) | 10/2007 - 09/2009 |
| Co-Investigator | Environmental Strategies for Violence and AOD Prevention. Funded by National Institute on Alcoholism and Alcohol Abuse. (R01AA015196) | 04/2005 - 07/2012 |
| Co-Investigator | Improving HIV Preventive Services through Geospatial Analysis. Funded by Johns Hopkins University Urban Health Institute | 05/2010 - 10/2010 |
| Co-Investigator | JHU Center for the Prevention of Youth Violence. Funded by Centers for Disease Control and Prevention. (1U01CE001954-01A1) | 09/2011 - 09/2016 |
| Co-Investigator | Sheppard Pratt Health System: Observations in the Maryland Safe and Supportive Schools Project. Funded by US Department of Education | 10/2011 - 09/2015 |
| Co-Investigator | Hopkins Center for Health Disparities Solutions. Funded by National Institute for Minority Health and Health Disparities. (2P60MD000214) | 06/2012 - 05/2017 |
| Co-Investigator | Alcohol Policies to Prevent and Reduce Youth Violence Exposure. Funded by Center for Disease Control and Prevention. (1R01CE002682) | 09/2015 - 09/2018 |
| Co-Investigator | The Flint Center for Health Equity Solutions. Funded by National Institute for Minority Health and Health Disparities. (U54MD011227) | 07/2016 - 02/2021 |
| Co-Investigator | The Legacy Effects of Discriminatory Housing Policies on Community Availability of Alcohol. Funded by National Institute on Alcohol Abuse and Alcoholism. (R21AA026674) | 02/2019 - 01/2021 |

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| **Other** |
| 2022 HRS Expert Consensus Statement on Evaluation and Management of Arrhythmic Risk in Neuromuscular Disorders (https://www.sciencedirect.com/science/article/pii/S1547527122019464?via%3Dihub)Reviewed as member of ASA Committee on Cardiovascular and Thoracic Anesthesiology. Heart Rhythm (in press); online 4-29-22 | 2022 |

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| **Bibliography** |

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| **Peer-reviewed Articles** |

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| 1. | Furr-Holden CD, Campbell KD, **Milam AJ**, Smart MJ, Ialongo NA, Leaf PJ.  Metric properties of the Neighborhood Inventory for Environmental Typology (NIfETy): an environmental assessment tool for measuring indicators of violence, alcohol, tobacco, and other drug exposures. Eval Rev. 2010 Jun; 34 (3):159-84 PMID: 20479211 PMCID: 3042134 DOI: 10.1177/0193841X10368493  |
| 2. | **Aj M**, Cdm FH, Pj L.  Perceived School and Neighborhood Safety, Neighborhood Violence and Academic Achievement in Urban School Children. Urban Rev. 2010 Dec 1; 42 (5):458-467 PMID: 21197388 PMCID: 3011866 DOI: 10.1007/s11256-010-0165-7  |
| 3. | Furr-Holden CD, **Milam AJ**, Young KC, Macpherson L, Lejuez CW.  Exposure to Hazardous Neighborhood Environments in Late Childhood and Anxiety. J Community Psychol. 2011 Sep; 39 (7):876-883 PMID: 21876608 PMCID: 3162373 DOI: 10.1002/jcop.20461  |
| 4. | Whitaker D, Graham C, Furr-Holden CD, **Milam A**, Latimer W.  Neighborhood disorder and incarceration history among urban substance users. J Correct Health Care. 2011 Oct; 17 (4):309-18 Epub 2011 Oct 02 PMID: 21969040 PMCID: 6413871 DOI: 10.1177/1078345811413092  |
| 5. | Furr-Holden CD, **Milam AJ**, Reynolds EK, Macpherson L, Lejuez CW.  Disordered neighborhood environments and risk-taking propensity in late childhood through adolescence. J Adolesc Health. 2012 Jan; 50 (1):100-2 Epub 2011 May 28 PMID: 22188842 PMCID: 3245513 DOI: 10.1016/j.jadohealth.2011.04.008  |
| 6. | **Milam AJ**, Furr-Holden CD, Whitaker D, Smart M, Leaf P, Cooley-Strickland M.  Neighborhood environment and internalizing problems in African American children. Community Ment Health J. 2012 Feb; 48 (1):39-44 Epub 2011 Jan 14 PMID: 21234683 PMCID: 3226893 DOI: 10.1007/s10597-011-9379-8  |
| 7. | **Milam AJ**, Bone L, Furr-Holden D, Coylewright M, Dachille K, Owings K, Clay E, Holmes W, Lambropoulos S, Stillman F.  Mobilizing for policy: using community-based participatory research to impose minimum packaging requirements on small cigars. Prog Community Health Partnersh. 2012 Summer; 6 (2):205-12 PMID: 22820230 PMCID: 3622061 DOI: 10.1353/cpr.2012.0027  |
| 8. | **Milam AJ**, Furr-Holden CD, Harrell PT, Whitaker DE, Leaf PJ.  Neighborhood disorder and juvenile drug arrests: a preliminary investigation using the NIfETy instrument. Am J Drug Alcohol Abuse. 2012 Nov; 38 (6):598-602 Epub 2012 July 11 PMID: 22783825 PMCID: 4392401 DOI: 10.3109/00952990.2012.701357  |
| 9. | Whitaker D, **Milam AJ**, Graham CM, Cooley-Strickland M, Belcher HM, Furr-Holden CD.  Neighborhood environment and urban schoolchildren's risk for being overweight. Am J Health Promot. 2013 Jul-Aug; 27 (6):410-6 Epub 2013 Mar 04 PMID: 23458376 PMCID: 6413872 DOI: 10.4278/ajhp.100827-QUAN-285  |
| 10. | **Milam A**, Furr-Holden C, Bradshaw C, Webster D, Cooley-Strickland M, Leaf P.  Alcohol Environment, Perceived Safety, and Exposure to Alcohol, Tobacco, and Other Drugs in Early Adolescence. J Community Psychol. 2013 Aug 1; 41 (7):867-883 PMID: 25125766 PMCID: 4130391 DOI: 10.1002/jcop.21579  |
| 11. | **Milam AJ**, Bone LR, Byron MJ, Hoke K, Williams CD, Furr-Holden CD, Stillman FA.  Cigarillo use among high-risk urban young adults. J Health Care Poor Underserved. 2013 Nov; 24 (4):1657-65 PMID: 24185161 PMCID: 3988125 DOI: 10.1353/hpu.2013.0173  |
| 12. | \* Brown QL, **Milam AJ**, Smart MJ, Johnson RM, Linton SL, Furr-Holden CDM, Ialongo NS.  Objective and perceived neighborhood characteristics and tobacco use among young adults. Drug Alcohol Depend. 2014 Jan 1; 134:370-375 Epub 2013 Nov 16 PMID: 24300901 PMCID: 3905837 DOI: 10.1016/j.drugalcdep.2013.11.005  |
| 13. | **Milam AJ**, Furr-Holden CDM, Harrell P, Ialongo N, Leaf PJ.  Off-Premise Alcohol Outlets and Substance Use in Young and Emerging Adults. Subst Use Misuse. 2014 Jan 1; 49 (1-2):22-29 Epub 2013 Aug 02 PMID: 23909579 DOI: 10.3109/10826084.2013.817426  |
| 14. | Jennings JM, **Milam AJ**, Greiner A, Furr-Holden CD, Curriero FC, Thornton RJ.  Neighborhood alcohol outlets and the association with violent crime in one mid-Atlantic City: the implications for zoning policy. J Urban Health. 2014 Feb; 91 (1):62-71 PMID: 24002723 PMCID: 3907623 DOI: 10.1007/s11524-013-9821-z  |
| 15. | **Milam AJ**, Furr-Holden CD, Cooley-Strickland MC, Bradshaw CP, Leaf PJ.  Risk for exposure to alcohol, tobacco, and other drugs on the route to and from school: the role of alcohol outlets. Prev Sci. 2014 Feb; 15 (1):12-21 PMID: 23408286 PMCID: 3778110 DOI: 10.1007/s11121-012-0350-x  |
| 16. | Stillman FA, Bone LR, **Milam AJ**, Ma J, Hoke K.  Out of view but in plain sight: the illegal sale of single cigarettes. J Urban Health. 2014 Apr; 91 (2):355-65 PMID: 24500025 PMCID: 3978150 DOI: 10.1007/s11524-013-9854-3  |
| 17. | Reboussin BA, Green KM, **Milam AJ**, Furr-Holden CD, Ialongo NS.  Neighborhood environment and urban African American marijuana use during high school. J Urban Health. 2014 Dec; 91 (6):1189-201 PMID: 25323775 PMCID: 4242855 DOI: 10.1007/s11524-014-9909-0  |
| 18. | Furr-Holden CD, Lee MH, Johnson R, **Milam AJ**, Duncan A, Reboussin BA, Leaf PJ, Ialongo NS.  Neighborhood environment and marijuana use in urban young adults. Prev Sci. 2015 Feb; 16 (2):268-78 PMID: 25005818 PMCID: 4440654 DOI: 10.1007/s11121-014-0497-8  |
| 19. | Reboussin BA, Green KM, **Milam AJ**, Furr-Holden DM, Johnson RM, Ialongo NS.  The role of neighborhood in urban black adolescent marijuana use. Drug Alcohol Depend. 2015 Sep 1; 154:69-75 Epub 2015 July 02 PMID: 26162651 PMCID: 4536173 DOI: 10.1016/j.drugalcdep.2015.06.029  |
| 20. | Bradshaw CP, **Milam AJ**, Furr-Holden CD, Johnson SL.  The School Assessment for Environmental Typology (SAfETy): An Observational Measure of the School Environment. Am J Community Psychol. 2015 Dec; 56 (3-4):280-92 PMID: 26296310 DOI: 10.1007/s10464-015-9743-x  |
| 21. | Furr-Holden CD, **Milam AJ**, Nesoff ED, Johnson RM, Fakunle DO, Jennings JM, Thorpe RJ Jr.  Not in My Back Yard: A Comparative Analysis of Crime Around Publicly Funded Drug Treatment Centers, Liquor Stores, Convenience Stores, and Corner Stores in One Mid-Atlantic City. J Stud Alcohol Drugs. 2016 Jan; 77 (1):17-24 PMID: 26751351 PMCID: 4711316 DOI: 10.15288/jsad.2016.77.17  |
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| 23. | **Milam AJ**, Johnson RM, Nesoff ED, Reboussin BA, Furr-Holden CD.  Evaluating Nighttime Observational Measures of Neighborhood Disorder: Validity of the Nighttime NIfETy Assessment. J Environ Psychol. 2016 Mar; 45:97-102 Epub 2015 Dec 08 PMID: 28979058 PMCID: 5624718 DOI: 10.1016/j.jenvp.2015.11.010  |
| 24. | \* Brown Q, **Milam AJ**, Bowie JV, Ialongo NS, Gaskin DJ, Furr-Holden D.  The Moderating Role of Gender in the Relationship Between Tobacco Outlet Exposure and Tobacco Use Among African American Young Adults. Prev Sci. 2016 Apr; 17 (3):338-46 PMID: 26680642 PMCID: 5052814 DOI: 10.1007/s11121-015-0622-3  |
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| 26. | Debnam K, **Milam AJ**, Furr-Holden CD, Bradshaw C.  The Role of Stress and Spirituality in Adolescent Substance Use. Subst Use Misuse. 2016 May 11; 51 (6):733-41 Epub 2016 Apr 12 PMID: 27070718 DOI: 10.3109/10826084.2016.1155224  |
| 27. | Furr-Holden DM, **Milam AJ**, Nesoff ED, Garoon J, Smart MJ, Duncan A, Warren GC.  Triangulating Syndemic Services and Drug Treatment Policy: Improving Drug Treatment Portal Locations in Baltimore City. Prog Community Health Partnersh. 2016 Summer; 10 (2):319-27 PMID: 27346779 PMCID: 6931040 DOI: 10.1353/cpr.2016.0025  |
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| 36. | \* Parker EM, Johnson SL, Debnam KJ, **Milam AJ**, Bradshaw CP.  Teen Dating Violence Victimization Among High School Students: A Multilevel Analysis of School-Level Risk Factors. J Sch Health. 2017 Sep; 87 (9):696-704 PMID: 28766318 DOI: 10.1111/josh.12538  |
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| 44. | Lam PH, **Milam AJ**, Ley EJ, Yumul R, Durra O.  Intraoperative Pulmonary Embolism Diagnosed by Rescue Transesophageal Echocardiography in a Morbidly Obese Patient Undergoing Orthopedic Surgery following Motor Vehicle Crash. Case Rep Anesthesiol. 2019; 2019:2429194 Epub 2019 May 26 PMID: 31263602 PMCID: 6556296 DOI: 10.1155/2019/2429194  |
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| **Forthcoming** |

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| 1. | Gelzinis T, **Milam A**, Subramani S, Ramakrishna H. Anesthesia for Mechanical Circulatory Support (book chapter, edited by Arabia FA). Mechanical Circulatory Support (submitted) 2022 |
| 2. | Burton B, Adeola JO, Do VM, **Milam AJ**, Cannesson M, Gabriel RA. The observed differences in the receipt of regional anesthesia based on race and ethnicity for patients undergoing colorectal surgery. The Joint Commission Journal on Quality and Patient Safety (accepted) 2023 |
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| 9. | **Milam AJ**, Buckner S, Stephens E, Williams T, Shore-Lesserson L. The use of methadone and ketamine for intraoperative pain management in cardiac surgery. Anesthesia & Analgesia (submitted) 2024 |
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