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Department of Epidemiology & Population Health
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Education

- Harvard TH Chan School of Public Health**, Boston, MA
11/2018 *ScD*, Quantitative Methods & Social Epidemiology
Department of Social and Behavioral Sciences
- New York University**, New York, NY
05/2010 *MPH*, International Health
- San Diego State University**, San Diego, CA
12/2007 *BA*, Sociology
- San Diego Community College**, San Diego, CA
05/2005 *Transfer*

Professional Appointments

FACULTY APPOINTMENTS

- Stanford University School of Medicine**, Stanford, CA
01/2022 – *Assistant Professor*, Department of Epidemiology and Population Health
09/2020 – 12/2021 *Instructor*, Department of Epidemiology and Population Health

ACADEMIC AFFILIATIONS

- Stanford University School of Medicine**, Stanford, CA
10/2024 – *Faculty Fellow*, Center for Affective Science
10/2023 – *Faculty Fellow*, Center for Population Health Sciences
01/2023 – *Faculty Affiliate*, Institute for Human-centered Artificial Intelligence
06/2022 – *Faculty Affiliate*, Wu Tsai Neurosciences Institute
02/2022 – *Faculty Affiliate*, Bio-X
- University of California Berkeley**, Berkeley, CA
08/2022 – *Faculty Affiliate*, Berkeley Population Center

POSTDOCTORAL AND FELLOWSHIP APPOINTMENTS

Stanford University School of Medicine, Stanford, CA

05/2019 – 08/2020 *T32 Postdoctoral Fellow*, Department of Psychiatry and Behavioral Sciences

09/2018 – 05/2019 *Postdoctoral Research Fellow*, Center for Population Health Sciences

Harvard TH Chan School of Public Health, Boston, MA

09/2020 – 12/2021 *Fellow*, Harvard FXB Center for Health and Human Rights

11/2019 – 08/2020 *Visiting Scholar*, Harvard FXB Center for Health and Human Rights

University of Chicago Harris School of Public Policy, Chicago, IL

05/2016 – 08/2016 *Fellow*, Data Science for Social Good Summer Fellowship

Scholarly Publications

PEER-REVIEWED ORIGINAL RESEARCH

1. **Kiang MV**, Bubar KM, Maldonado Y, Hotez PJ, Lo NC. Modeling reemergence of vaccine-eliminated infectious diseases under declining vaccination in the US. *JAMA*. 2025 Apr 24. doi: 10.1001/jama.2025.6495. PubMed PMID: 40272967.
2. Smith DA, Lavertu A, Salecha A, Hamamsy T, Humphreys K, Lembke A, **Kiang MV**, Altman RB, Eichstaedt JC. Monitoring the opioid epidemic via social media discussions. *npj Digital Medicine*. 8, 284 (2025). doi: 10.1038/s41746-025-01642-x
3. Carpenter KA, Nguyen AT, Smith DA, Samori IA, Humphreys K, Lembke A, **Kiang MV**, Eichstaedt JC, Altman RB. Which social media platforms facilitate monitoring the opioid crisis?. *PLOS Digital Health*. 2025 Apr;4(4):e0000842. doi: 10.1371/journal.pdig.0000842. eCollection 2025 Apr. PubMed PMID: 40293990; PubMed Central PMCID: PMC12036940.
4. **Kiang MV**, Humphreys K. Recent drug overdose mortality decline compared with pre-COVID-19 trend. *JAMA Network Open*. 2025 Feb 3;8(2):e2458090. doi: 10.1001/jamanetworkopen.2024.58090. PubMed PMID: 39908021.
5. Elser HE[†], **Kiang MV**[†], Humphreys K, Zhang J. High-risk emergency department visits and risk of all-cause mortality, suicide, and fatal overdose among US military veterans. *American Journal of Epidemiology*. 2025 Jan 8;. doi: 10.1093/aje/kwaf002. [Epub ahead of print] PubMed PMID: 39780412. [†]First authors contributed equally.
6. Geldsetzer P, Fridljand D, **Kiang MV**, Bendavid E, Heft-Neal S, Burke M, Benmarhnia T. Disparities in air pollution attributable mortality in the US population by race/ethnicity and sociodemographic factors, *Nature Medicine*. 2024 Oct;30(10):2821-2829. doi: 10.1038/s41591-024-03117-0. Epub 2024 Jul 1. PubMed PMID: 38951636.
7. Schlüter B-S, Alburez-Gutierrez A, Bibbins-Domingo K, Alexander MJ[†], **Kiang MV**[†]. Youth experiencing parental death due to drug poisoning and firearm violence in the United States, 1999 – 2020, *JAMA*. 2024 May 4, doi: 10.1001/jama.2024.8391. [Epub ahead of print] PubMed PMID: 38703404; PubMed Central PMCID: PMC11070062. [†]Senior authors contributed equally.
8. Chandra J, Charpignon M-L, Bhaskar A, Theriault A, Chen Y-H, Mooney A, Dahley MA, **Kiang MV**[†], Dominici F[†]. Excess fatal overdoses in the United States during the COVID-19 Pandemic by geography and substance type: March 2020 – August 2021, *American Journal of Public Health*. 2024;114(6):599–609. doi: 10.2105/AJPH.2024.307618. PubMed PMID: 38718338; PubMed Central PMCID: PMC11079842. [†]Senior authors contributed equally.
9. Huynh BQ, Chen ET, **Kiang MV**. Estimated childhood lead exposure from drinking water in Chicago, *JAMA Pediatrics*. 2024 Mar 18, doi: 10.1001/jamapediatrics.2024.0133. [Epub ahead of print] PubMed PMID: 38497944; PubMed Central PMCID: PMC10949143.

10. Huynh BQ, Chen ET, Koenecke A, Ouyang D, Ho DE, **Kiang MV**^{*}, Rehkopf DH[†], Mitigating allocative tradeoffs and harms in an environmental justice data tool, *Nature Machine Intelligence*. 2024 Feb 16, doi: 10.1038/s42256-024-00793-y. ^{*}Senior authors contributed equally.
11. Heft-Neal S, Gould CF, Childs ML, **Kiang MV**, Nadeau KC, Duggan M, Bendavid E, Burke M. Emergency department visits respond nonlinearly to wildfire smoke, *Proceedings of the National Academy of Sciences*. 2023 Sep 26;120(39):e2302409120. doi: 10.1073/pnas.2302409120. Epub 2023 Sep 18. PubMed PMID: 37722035; PubMed Central PMCID: PMC10523589.
12. Rosenstein AL, Kandala K, Venkateswaran S, **Kiang MV**, Okusanya O, Auchincloss HG, Martin LW, Colson YL, Yang CJ. Shortage of thoracic surgeons in the United States: Implications for treatment and survival for Stage I lung cancer patients, *The Journal of Thoracic and Cardiovascular Surgery*. 2023 Sep 14;. doi: 10.1016/j.jtcvs.2023.08.059. [Epub ahead of print] PubMed PMID: 37716651.
13. Liang R, **Kiang MV**, Grant P, Jackson C, Rehkopf DH, Associations between county-level public health expenditures and community health planning activities with COVID-19 incidence and mortality, *Preventive Medicine Reports*. 2023 Dec;36:102410. doi: 10.1016/j.pmedr.2023.102410. eCollection 2023 Dec. PubMed PMID: 37732021; PubMed Central PMCID: PMC10507150.
14. Potter AL, Vaddaraiu V, Mansur A, Bajaj SS, **Kiang MV**, Jena AB, Yang CJ, Deaths due to COVID-19 in patients with cancer during different waves of the pandemic in the US, *JAMA Oncology*. 2023 Aug 31. doi: 10.1001/jamaoncol.2023.3066. [Epub ahead of print] PubMed PMID: 37651113; PubMed Central PMCID: PMC10472259.
15. Chen R, Charpignon M-L, Raquib RV, Wang J, Meza E, Aschmann HE, DeVost MA, Mooney A, Bibbins-Domingo K, Riley AR, **Kiang MV**, Chen Y-H, Stokes AC, Glymour MM. Excess mortality with Alzheimer's disease and related dementias as an underlying or contributing cause during the COVID-19 pandemic in the US. *JAMA Neurology*. 2023 Jul 17. doi: 10.1001/jamaneurol.2023.2226. [Epub ahead of print] PubMed PMID: 37459088; PubMed Central PMCID: PMC10352932.
16. Heerema MR, Ventura AS, Blackmore SC, Montoya ID, Gobel DE, **Kiang MV**, LaBelle CT, Bazzi AR. Evaluation of the New England office based addiction treatment ECHO: A tool for strengthening the addiction workforce. *Substance Abuse*. 2023 Jun 7;:8897077231179601. doi: 10.1177/08897077231179601. [Epub ahead of print] PubMed PMID: 37287240.
17. Lundberg DJ, Wrigley-Field E, Cho A, Raquib R, Nsoesie EO, Paglino E, Chen R, **Kiang MV**, Riley AR, Chen Y-H, Charpignon M-L, Hempstead K, Preston SH, Elo IT, Glymour MM, Stokes AC. COVID-19 mortality by race and ethnicity in metropolitan and nonmetropolitan areas, March 2020 to February 2022. *JAMA Network Open*. 2023 May 1;6(5):e2311098. doi: 10.1001/jamanetworkopen.2023.11098. PubMed PMID: 37129894; PubMed Central PMCID: PMC10155069.
18. Do V, McBrien H, Flores NM, Northrop AJ, Schlegelmilch J, **Kiang MV**, Casey JA. Spatiotemporal distribution of power outages with climate events and social vulnerability in the USA. *Nature Communications*. 2023 Apr 29;14(1):2470. doi: 10.1038/s41467-023-38084-6. PubMed PMID: 37120649; PubMed Central PMCID: PMC10147900.
19. Velásquez EE, Benmarhnia T, Casey JA, Aguilera R, **Kiang MV**. Quantifying exposure to wildfire smoke among schoolchildren in California, 2006 to 2021. *JAMA Network Open*. 2023 Apr 3;6(4):e235863. doi: 10.1001/jamanetworkopen.2023.5863. PubMed PMID: 37017969; PubMed Central PMCID: PMC10077104.
20. **Kiang MV**, Carlasare LE, Israni ST, Norcini J, Zaman JAB, Bibbins-Domingo K, Excess mortality among US physicians during the COVID-19 pandemic. *JAMA Internal Medicine*. 2023 Feb 6;. doi: 10.1001/jamainternmed.2022.6308. [Epub ahead of print] PubMed PMID: 36745424.
21. Elser H, Rowland ST, Marek MS, **Kiang MV**, Shea B, Do V, Benmarhnia T, Schneider ALC, Casey JA. Wildfire smoke exposure and emergency department visits for headache: A case-crossover analysis in California, 2006–2020. *Headache*. 2023 Jan 18;. doi: 10.1111/head.14442. [Epub ahead of print] PubMed PMID: 36651537.

22. Potter AL, Haridas C, Neumann K, **Kiang MV**, Fong ZV, Riddell CA, Pope HG Jr, Yang CJ. Incidence, Timing, and factors associated with suicide among patients undergoing surgery for cancer in the US. *JAMA Oncology*. 2023 Jan 12;. doi: 10.1001/jamaoncol.2022.6549. [Epub ahead of print] PubMed PMID: 36633854.
23. Criss S, Nguyen TT, Michaels EK, Gee G, **Kiang MV**, Nguyen QC, Norton S, Titherington E, Nguyen L, Yardi I, Kim M, Thai N, Shepherd A, Kennedy CJ, Solidarity and strife after the Atlanta spa shootings: a mixed methods study characterizing Twitter discussions by qualitative analysis and machine learning, *Frontiers in Public Health*. 2023 Jan 9. doi: 10.3389/fpubh.2023.952069. [Epub ahead of print]
24. Elser H, Humphreys K, **Kiang MV**, Mehta S, Yoon JH, Faustman WO, Matthay EC. State cannabis legalization and psychosis-related health care utilization. *JAMA Network Open*. 2023 Jan 3;6(1):e2252689. doi: 10.1001/jamanetworkopen.2022.52689. PubMed PMID: 36696111.
25. Aschmann HE[†], Riley AR[†], Chen R, Chen Y-H, Bibbins-Domingo K, Stokes AC, Glymour MM, **Kiang MV**, Dynamics of racial disparities in all-cause mortality during the COVID-19 pandemic, *Proceedings of the National Academy of Sciences*. 2022 Oct 4;119(40):e2210941119. doi: 10.1073/pnas.2210941119. Epub 2022 Sep 20. PubMed PMID: 36126098; PubMed Central PMCID: PMC9546535. [†]First authors contributed equally.
26. Chen Y-H, Riley AR, Duchowny KA, Aschmann HE, Chen R, **Kiang MV**, Mooney A, Stokes AC, Glymour MM, Bibbins-Domingo K, COVID-19 mortality and excess mortality among working-age residents in California, USA, by occupational sector: a longitudinal cohort analysis of mortality surveillance data. *The Lancet Public Health*. 2022 Sep;7(9):e744-e753. doi: 10.1016/S2468-2667(22)00191-8. PubMed PMID: 36057273; PubMed Central PMCID: PMC9433054.
27. Acosta RJ, Patnaik B, Buckee CO, **Kiang MV**, Irizarry RA, Balsari S, Mahmud AS. All-cause excess mortality across 90 municipalities in the State of Gujarat, India, during the COVID-19 pandemic (March 2020–April 2021). *PLOS Global Public Health*. 2022;2(8):e0000824. doi: 10.1371/journal.pgph.0000824. eCollection 2022. PubMed PMID: 36962751; PubMed Central PMCID: PMC10021770.
28. Flores NM, McBrien H, Do V, **Kiang MV**, Schlegelmilch J, Casey JA, The 2021 Texas Power Crisis: distribution, duration, and disparities. *Journal of Exposure Science and Environmental Epidemiology*. 2022 Aug 13;. doi: 10.1038/s41370-022-00462-5. [Epub ahead of print] PubMed PMID: 35963946; NIHMSID:NIHMS1825690.
29. Chen Y-H, Stokes AC, Aschmann HE, Chen R, DeVost S, **Kiang MV**, Koliwad S, Riley AR, Glymour MM, Bibbins-Domingo K, Excess natural-cause deaths in California by cause and setting: March 2020 through February 2021, *PNAS Nexus*. 2022 Jul;1(3):pgac079. doi: 10.1093/pnasnexus/pgac079. eCollection 2022 Jul. PubMed PMID: 35832865; PubMed Central PMCID: PMC9272175.
30. Chen R, Aschmann HE, Chen Y-H, Glymour MM, Bibbins-Domingo K, Stokes AC, **Kiang MV**, Racial and ethnic disparities in excess mortality from external causes in the United States, March to December 2020, *JAMA Internal Medicine*. 2022 Jul 1;182(7):776-778. doi: 10.1001/jamainternmed.2022.1461. PubMed PMID: 35532918; PubMed Central PMCID: PMC9086931.
31. Potter AL, Rosenstein A, **Kiang MV**, Shah SA, Gaissert HA, Chang DC, Fintelman FJ, Yang CJ, The effect of computed tomography screening on lung cancer stage shift and survival in the United States. *BMJ*. 2022 Mar 30;376:e069008. doi: 10.1136/bmj-2021-069008. PubMed PMID: 35354556; PubMed Central PMCID: PMC8965744.
32. **Kiang MV**, Acosta RJ, Chen Y-H, Matthay EC, Tsai AC, Basu S, Glymour MM, Bibbins-Domingo K, Humphreys K[†], Arthur KN[†], Sociodemographic and geographic disparities in excess fatal drug overdoses during the COVID-19 pandemic in California: a population-based study. *The Lancet Regional Health - Americas*. 2022 Jul;11:100237. doi: 10.1016/j.lana.2022.100237. Epub 2022 Mar 19. PubMed PMID: 35342895; PubMed Central PMCID: PMC8934030. [†]Senior authors contributed equally.
33. Riley AR[†], **Kiang MV**[†], Chen YH, Bibbins-Domingo K, Glymour MM. Recent shifts in racial/ethnic disparities in COVID-19 mortality in the vaccination period in California. *Journal of General Internal Medicine*. 2022 Feb 2;. doi:

- 10.1007/s11606-021-07380-6. [Epub ahead of print] PubMed PMID: 35112284; PubMed Central PMCID: PMC8809629. [†]First authors contributed equally.
34. Chang HH, Chang MC, **Kiang MV**, Mahmud AS, Ekapirat N, Engø-Monsen K, Sudathip P, Buckee CO, Maude RJ. Low parasite connectivity among three malaria hotspots in Thailand. *Scientific Reports*. 2021 Dec 2;11(1):23348. doi: 10.1038/s41598-021-02746-6. PubMed PMID: 34857842; PubMed Central PMCID: PMC8640040.
 35. **Kiang MV**, Tsai AC, Alexander MJ, Rehkopf DH, Basu S. Racial/ethnic disparities in opioid-related mortality in the USA, 1999-2019: the extreme case of Washington DC. *Journal of Urban Health*. 2021 Oct;98(5):589-595. doi: 10.1007/s11524-021-00573-8. Epub 2021 Oct 18. PubMed PMID: 34664185; PubMed Central PMCID: PMC8566633.
 36. Huynh BQ, Kwong LH, **Kiang MV**, Chin ET, Mohareb AM, Jumaan AO, Basu S, Geldsetzer P, Karaki FM, Rehkopf DH. Public health impacts of an imminent Red Sea oil spill. *Nature Sustainability*. 2021 Dec;4(12):1084-1091. doi: 10.1038/s41893-021-00774-8. Epub 2021 Oct 11. PubMed PMID: 34926834; PubMed Central PMCID: PMC8682806.
 37. **Kiang MV**, Barnett ML, Wakeman SE, Humphreys K, Tsai AC. Robustness of estimated access to opioid use disorder treatment providers in rural vs. urban areas of the United States. *Drug and Alcohol Dependence*. 2021 Nov 1;228:109081. doi: 10.1016/j.drugalcdep.2021.109081. Epub 2021 Sep 24. PubMed PMID: 34600256; PubMed Central PMCID: PMC8595811.
 38. Wrigley-Field E, **Kiang MV**, Riley AR, Barbieri M, Chen YH, Duchowny KA, Matthay EC, Van Riper D, Jegathesan K, Bibbins-Domingo K, Leider JP. Geographically targeted COVID-19 vaccination is more equitable and averts more deaths than age-based thresholds alone. *Science Advances*. 2021 Oct;7(40):eabj2099. doi: 10.1126/sciadv.abj2099. Epub 2021 Sep 29. PubMed PMID: 34586843; PubMed Central PMCID: PMC8480919.
 39. **Kiang MV**, Chen JT, Krieger N, Buckee CO, Alexander MJ, Baker JT, Buckner RL, Coombs G 3rd, Rich-Edwards JW, Carlson KW, Onnela JP. Sociodemographic characteristics of missing data in digital phenotyping. *Scientific Reports*. 2021 Jul 29;11(1):15408. doi: 10.1038/s41598-021-94516-7. PubMed PMID: 34326370; PubMed Central PMCID: PMC8322366.
 40. Satinsky EN, Kimura T, **Kiang MV**, Abebe R, Cunningham S, Lee H, Lin X, Liu CH, Rudan I, Sen S, Tomlinson M, Yaver M, Tsai AC. Systematic review and meta-analysis of depression, anxiety, and suicidal ideation among Ph.D. students. *Scientific Reports*. 2021 Jul 13;11(1):14370. doi: 10.1038/s41598-021-93687-7. PubMed PMID: 34257319; PubMed Central PMCID: PMC8277873.
 41. Elser H, Parks RM, Moghavem N, **Kiang MV**, Bozinov N, Henderson VW, Rehkopf DH, Casey JA. Anomalously warm weather and acute care visits in patients with multiple sclerosis: A retrospective study of privately insured individuals in the US. *PLOS Medicine*. 2021 Apr;18(4):e1003580. doi: 10.1371/journal.pmed.1003580. eCollection 2021 Apr. PubMed PMID: 33901187; PubMed Central PMCID: PMC8109782.
 42. Ferguson JM[†], Abdel Magid HS[†], Purnell AL, **Kiang MV**, Osborne TF. Differences in COVID-19 Testing and test positivity among Veterans, United States, 2020. *Public Health Reports*. 2021 Jul-Aug;136(4):483-492. doi: 10.1177/00333549211009498. Epub 2021 Apr 7. PubMed PMID: 33826875; PubMed Central PMCID: PMC8203038. [†]First authors contributed equally.
 43. **Kiang MV**, Chin ET, Huynh BQ, Chapman LAC, Rodríguez-Barraquer I, Greenhouse B, Rutherford GW, Bibbins-Domingo K, Havlir D, Basu S, Lo NC. Routine asymptomatic testing strategies for airline travel during the COVID-19 pandemic: a simulation study. *The Lancet Infectious Diseases*. 2021 Jul;21(7):929-938. doi: 10.1016/S1473-3099(21)00134-1. Epub 2021 Mar 23. PubMed PMID: 33765417; PubMed Central PMCID: PMC7984872.
 44. Matthay EC, **Kiang MV**, Elser H, Schmidt L, Humphreys K. Evaluation of state cannabis laws and rates of self-harm and assault. *JAMA Network Open*. 2021 Mar 1;4(3):e211955. doi: 10.1001/jamanetworkopen.2021.1955. PubMed PMID: 33734416; PubMed Central PMCID: PMC7974641.
 45. Salje H, Wesolowski A, Brown TS, **Kiang MV**, Berry IM, Lefrancq N, Fernandez S, Jarman RG, Ruchusatsawat K, Iamsirithaworn S, Vandepitte WP, Suntarattiwong P, Read JM, Klungthong C, Thaisomboonsuk B, Engø-Monsen K,

- Buckee C[‡], Cauchemez S[‡], Cummings DAT[‡]. Reconstructing unseen transmission events to infer dengue dynamics from viral sequences. *Nature Communications*. 2021 Mar 22;12(1):1810. doi: 10.1038/s41467-021-21888-9. PubMed PMID: 33753725; PubMed Central PMCID: PMC7985522. [‡]Senior authors contributed equally.
46. Brown TS, Engø-Monsen K, **Kiang MV**, Mahmud AS, Maude RJ, Buckee CO. The impact of mobility network properties on predicted epidemic dynamics in Dhaka and Bangkok. *Epidemics*. 2021 Jun;35:100441. doi: 10.1016/j.epidem.2021.100441. Epub 2021 Feb 22. PubMed PMID: 33667878; PubMed Central PMCID: PMC7899011.
 47. Casey JA, Mango M, Mullendore S, **Kiang MV**, Hernández D, Li BH, Li K, Im TM, Tartof SY. Trends from 2008 to 2018 in electricity-dependent durable medical equipment rentals and sociodemographic disparities. *Epidemiology*. 2021 May 1;32(3):327-335. doi: 10.1097/EDE.0000000000001333. PubMed PMID: 33591051; PubMed Central PMCID: PMC8140591.
 48. Baum LVM, Bruzelius E, **Kiang MV**, Humphreys K, Basu S, Baum A. Analysis of unused prescription opioids and benzodiazepines remaining after death among Medicare decedents. *Drug and Alcohol Dependence*. 2021 Feb 1;219:108502. doi: 10.1016/j.drugalcdep.2020.108502. Epub 2021 Jan 2. PubMed PMID: 33421803; PubMed Central PMCID: PMC7914112.
 49. Elser H[‡], **Kiang MV**[‡], John EM, Simard JF, Bondy M, Nelson LM, Chen WT, Linos E. The impact of the first COVID-19 shelter-in-place announcement on social distancing, difficulty in daily activities, and levels of concern in the San Francisco Bay Area: A cross-sectional social media survey. *PLOS One*. 2021;16(1):e0244819. doi: 10.1371/journal.pone.0244819. eCollection 2021. PubMed PMID: 33444363; PubMed Central PMCID: PMC7808609. [‡]First authors contributed equally.
 50. **Kiang MV**[‡], Santillana M[‡], Chen JT, Onnela JP, Krieger N, Engø-Monsen K, Ekapirat N, Areechokchai D, Prempee P, Maude RJ[‡], Buckee CO[‡]. Incorporating human mobility data improves forecasts of Dengue fever in Thailand. *Scientific Reports*. 2021 Jan 13;11(1):923. doi: 10.1038/s41598-020-79438-0. PubMed PMID: 33441598; PubMed Central PMCID: PMC7806770. [‡]First authors contributed equally. ^{*}Senior authors contributed equally.
 51. Casey JA, Fukurai M, Hernández D, Balsari S, **Kiang MV**. Power outages and community health: A narrative review. *Curr Environ Health Rep*. 2020 Dec;7(4):371-383. doi: 10.1007/s40572-020-00295-0. Epub 2020 Nov 11. Review. PubMed PMID: 33179170; PubMed Central PMCID: PMC7749027.
 52. Kishore N, **Kiang MV**, Engø-Monsen K, Vembar N, Schroeder A, Balsari S, Buckee CO. Measuring mobility to monitor travel and physical distancing interventions: a common framework for mobile phone data analysis. *The Lancet Digit Health*. 2020 Nov;2(11):e622-e628. doi: 10.1016/S2589-7500(20)30193-X. Epub 2020 Sep 1. PubMed PMID: 32905027; PubMed Central PMCID: PMC7462565.
 53. Chin T[‡], Kahn R[‡], Li R, Chen JT, Krieger N, Buckee CO, Balsari S[‡], **Kiang MV**[‡]. US-county level variation in intersecting individual, household and community characteristics relevant to COVID-19 and planning an equitable response: a cross-sectional analysis. *BMJ Open*. 2020 Sep 1;10(9):e039886. doi: 10.1136/bmjopen-2020-039886. PubMed PMID: 32873684; PubMed Central PMCID: PMC7467554. [‡]First authors contributed equally. ^{*}Senior authors contributed equally.
 54. **Kiang MV**, Humphreys K, Cullen MR, Basu S. Opioid prescribing patterns among medical providers in the United States, 2003-17: retrospective, observational study. *BMJ*. 2020 Jan 29;368:l6968. doi: 10.1136/bmj.l6968. PubMed PMID: 31996352; PubMed Central PMCID: PMC7190021.
 55. **Kiang MV**, Krieger N, Buckee CO, Onnela JP, Chen JT. Decomposition of the US Black/White inequality in premature mortality, 2010-2015: an observational study. *BMJ Open*. 2019 Nov 19;9(11):e029373. doi: 10.1136/bmjopen-2019-029373. PubMed PMID: 31748287; PubMed Central PMCID: PMC6887068.
 56. Tsai AC, **Kiang MV**, Barnett ML, Beletsky L, Keyes KM, McGinty EE, Smith LR, Strathdee SA, Wakeman SE, Venkataramani AS. Stigma as a fundamental hindrance to the United States opioid overdose crisis response. *PLOS*

- Medicine*. 2019 Nov;16(11):e1002969. doi: 10.1371/journal.pmed.1002969. eCollection 2019 Nov. PubMed PMID: 31770387; PubMed Central PMCID: PMC6957118.
57. Vable AM, **Kiang MV**, Glymour MM, Rigdon J, Drabo EF, Basu S. Performance of matching methods as compared with unmatched ordinary least squares regression under constant effects. *American Journal of Epidemiology*. 2019 Jul 1;188(7):1345-1354. doi: 10.1093/aje/kwz093. PubMed PMID: 30995301; PubMed Central PMCID: PMC6601529.
 58. **Kiang MV**, Basu S, Chen J, Alexander MJ. Assessment of changes in the geographical distribution of opioid-related mortality across the United States by opioid type, 1999-2016. *JAMA Network Open*. 2019 Feb 1;2(2):e190040. doi: 10.1001/jamanetworkopen.2019.0040. PubMed PMID: 30794299; PubMed Central PMCID: PMC6484620.
 59. Gemmill A, **Kiang MV**, Alexander MJ. Trends in pregnancy-associated mortality involving opioids in the United States, 2007-2016. *American Journal of Obstetrics and Gynecology*. 2019 Jan;220(1):115-116. doi: 10.1016/j.ajog.2018.09.028. Epub 2018 Sep 28. PubMed PMID: 30273587.
 60. Alexander MJ[†], **Kiang MV**[†], Barbieri M. Trends in Black and White opioid mortality in the United States, 1979-2015. *Epidemiology*. 2018 Sep;29(5):707-715. doi: 10.1097/EDE.0000000000000858. PubMed PMID: 29847496; PubMed Central PMCID: PMC6072374. [†]First authors contributed equally.
 61. Kishore N, Marques-Reyes D, Mahmud A, **Kiang MV**, Rodriguez I, Fuller A, Ebner P, Sorensen C, Racy F, Lemery J, Maas L, Leaning J, Irizarry RA, Balsari S[†], Buckee CO[‡]. Mortality in Puerto Rico after Hurricane Maria, *New England Journal of Medicine* (May 2018), doi: 10.1056/NEJMs1803972. [‡]Senior authors contributed equally.
 62. Vable AM, **Kiang MV**, Basu S, Rudolph KE, Kawachi I, Subramanian SV, Glymour MM. Military service, childhood socio-economic status, and late-life lung function: Korean War era military service associated with smaller disparities. *Military Medicine*. 2018 Sep 1;183(9-10):e576-e582. doi: 10.1093/milmed/usx196. PubMed PMID: 29509934; PubMed Central PMCID: PMC6119642.
 63. Torous J, **Kiang MV**, Lorme J, Onnela JP. New tools for new research in psychiatry: A scalable and customizable platform to empower data driven smartphone research. *JMIR Mental Health*. 2016 May 5;3(2):e16. doi: 10.2196/mental.5165. PubMed PMID: 27150677; PubMed Central PMCID: PMC4873624.
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 68. Krieger N, Gruskin S, Singh N, **Kiang MV**, Chen JT, Waterman PD, Gottlieb J, Beckfield J, Coull BA. Reproductive justice and the pace of change: socioeconomic trends in US infant death rates by legal status of abortion, 1960-1980. *American Journal of Public Health*. 2015 Apr;105(4):680-2. doi: 10.2105/AJPH.2014.302401. Epub 2015 Feb 25. PubMed PMID: 25713932; PubMed Central PMCID: PMC4358198.

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70. Krieger N, Kosheleva A, Waterman PD, Chen JT, Beckfield J, **Kiang MV**. 50-year trends in US socioeconomic inequalities in health: US-born Black and White Americans, 1959-2008. *International Journal of Epidemiology*. 2014 Aug;43(4):1294-313. doi: 10.1093/ije/dyu047. Epub 2014 Mar 16. PubMed PMID: 24639440; PubMed Central PMCID: PMC4121555.
71. Krieger N, **Kiang MV**, Kosheleva A, Waterman PD, Chen JT, Beckfield J. Age at menarche: 50-year socioeconomic trends among US-born Black and White women. *American Journal of Public Health*. 2015 Feb;105(2):388-97. doi: 10.2105/AJPH.2014.301936. PubMed PMID: 25033121; PubMed Central PMCID: PMC4318288.
72. Singer SJ, Hayes JE, Gray GC, **Kiang MV**. Making time for learning-oriented leadership in multidisciplinary hospital management groups. *Health Care Management Review*. 2015 Oct-Dec;40(4):300-12. doi: 10.1097/HMR.000000000000037. PubMed PMID: 25029508.
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80. Solomon TM, Halkitis PN, Moeller RM, Siconolfi DE, **Kiang MV**, Barton SC. Sex parties among young gay, bisexual, and other men who have sex with men in New York City: attendance and behavior. *Journal of Urban Health*. 2011 Dec;88(6):1063-75. doi: 10.1007/s11524-011-9590-5. PubMed PMID: 21698548; PubMed Central PMCID: PMC3232420.
81. Singer SJ, Hayes J, Cooper JB, Vogt JW, Sales M, Aristidou A, Gray GC, **Kiang MV**, Meyer GS. A case for safety leadership team training of hospital managers. *Health Care Management Review*. 2011 Apr-Jun;36(2):188-200. doi: 10.1097/HMR.0b013e318208cd1d. PubMed PMID: 21317660.
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OTHER PEER-REVIEWED PUBLICATIONS

1. National Academies of Sciences, Engineering, and Medicine.[◊] *Veterans, prescription opioids and benzodiazepines, and mortality, 2007–2019: Three target trial emulations*. 2025 Feb 6. Washington, DC: The National Academies Press. doi: 10.17226/28879. [◊]Denotes group authorship.
2. **Kiang MV**, Alexander MJ. Invited commentary: Motivating better methods — and better data collection — for measuring prevalence of drug misuse, *American Journal of Epidemiology*. 2025 Jan 8;194(1):12-16. doi: 10.1093/aje/kwae156. PubMed PMID: 38932578; PubMed Central PMCID: PMC11735954.
3. Balsari S, **Kiang MV**, Buckee CO. Data in crisis – Rethinking disaster preparedness in the United States. *New England Journal of Medicine*. 2021 Oct 14;385(16):1526-1530. doi: 10.1056/NEJMms2104654. Epub 2021 Sep 1. PubMed PMID: 34469643; PubMed Central PMCID: PMC8622661.
4. **Kiang MV**, Tsai AC. Failure of leadership in U.S. academic medicine after George Floyd's killing by police and amidst subsequent unrest. *Annals of Epidemiology*. 2022 Jan;65:116-119. doi: 10.1016/j.annepidem.2021.04.018. Epub 2021 May 21. PubMed PMID: 34023486; PubMed Central PMCID: PMC8606007.
5. **Kiang MV**, Irizarry RA, Buckee CO, Balsari S. Every body counts: Measuring mortality from the COVID-19 pandemic. *Annals of Internal Medicine*. 2020 Dec 15;173(12):1004-1007. doi: 10.7326/M20-3100. Epub 2020 Sep 11. Review. PubMed PMID: 32915654; PubMed Central PMCID: PMC7505023.

OTHER SCHOLARLY WORK (NOT PEER-REVIEWED)

1. Burke M, Zahid M, Martins MCM, Callahan CW, Lee R, Avirmed T, Heft-Neal S, **Kiang MV**, Hsiang SM, Lobell D, Are we adapting to climate change?, Preprint on *NBER* (Sep 2024), doi: 10.3386/w32985
2. Qui M, Li J, Gould CF, Jing R, Kelp M, Childs ML, Wen J, Xie Y, Lin M, **Kiang MV**, Heft-Neal S, Diffenbaugh NS, Burke M, Wildfire smoke exposure and mortality burden in the US under future climate change, Preprint on *EarthArXiv* (Mar 2024), doi: 10.31223/X5RQ5C.
3. Gould CF, Heft-Neal S, Heaney AK, Bendavid E, Callahan CW, , **Kiang MV**, Zivin JSG, Burke E, Temperature extremes impact mortality and morbidity differently, Preprint on *NBER* (Mar 2024), doi: 10.3386/w32195
4. Huynh BQ, **Kiang MV**, AI for anticipatory action: Moving beyond climate forecasting, *Proceedings of the AAAI Symposium Series*. 2(1), 78-84, 2023 (Jul 2023). (Available at: doi: 10.48550/arXiv.2307.15727.)
5. Glymour MM, Charpignon M-L, Chen Y-H, **Kiang MV**. Counterpoint — Preprints and the future of scientific publishing: In favor of relevance. *American Journal of Epidemiology*. 2023 Mar 23. doi: 10.1093/aje/kwado52.
6. Chen Y-H, Chen R, Charpignon M-L, **Kiang MV**, Riley AR, Glymour MM, Bibbins-Domingo K, Stokes AC, COVID-19 mortality among working-age Americans in 46 states, by industry and occupation, Preprint on *medRxiv* (Apr 2022), doi: 10.1101/2022.03.29.22273085.
7. Krieger N, **Kiang MV**, Chen JT, Waterman PD, Trends in US deaths due to legal intervention among black and white men, age 15–34 years, by county income level: 1960–2010, *Harvard Public Health Review* (Jan 2015 — Special Issue)

Presentations

NATIONAL AND REGIONAL MEETINGS (PODIUM PRESENTATIONS)

1. **Kiang MV**, Lundberg DJ, Raquib R, Huynh B, Li R, Glymour MM, Stokes AC, Applying machine learning to identify unrecognized COVID-19 deaths attributed to other causes of death in the United States. *Society for Epidemiologic Research Annual Meeting 2024: Austin* (June 2024)

2. Nguyen A, Subrahmanya S, Altman R, Eichstaedt J, **Kiang MV**, Tracking spatiotemporal trends in public stigmatization of opioid use on social media. *Society for Epidemiologic Research Annual Meeting 2024: Austin* (June 2024)
3. Schluter B, Alexander MJ, Alburez-Gutierrez D, **Kiang MV**, Racial/ethnic disparities in loss of parents due to drug overdoses and firearms. *Population Association of America Annual Meeting 2024: Columbus* (April 2024)
4. Heft-Neal S, Gould CF, Childs M, **Kiang MV**, Nadeau K, Duggan M, Bendavid E, Burke M, Emergency department visits respond non-linearly to wildfire smoke, *American Geophysical Union Annual Meeting 2023: San Francisco* (December 2023).
5. Parks RM, Benmarhnia T, Casey JA, Glymour MM, Kioumourtzoglou MA, **Kiang MV**, Wildfire-related PM_{2.5} and mortality in California. *Society for Epidemiologic Research Annual Meeting 2023: Portland* (June 2023)
6. Riley AC, Stokes AC, Chen Y-H, **Kiang MV**, Occupational disparities in excess mortality due to external causes during the pandemic. *Population Association of America Annual Meeting 2023: New Orleans* (April 2023).
7. Jia S, Chan J, Savi MK, Balsari B, Yadav A, **Kiang MV**, Buckee CO, Schroeder A, How crowdsourced human mobility data might save us from disaster: Lessons learned from the 2022 hurricane season. *American Geophysical Union Fall Meeting 2022: Chicago* (December 2022).
8. **Kiang MV**, Chen Y-H, Matthay EC, Glymour MM, Bibbins-Domingo K, Humphreys K, Tsai AC, Colliding Crises: Sociodemographic and geographic disparities in excess fatal drug overdoses during the COVID-19 pandemic. *Society for Epidemiologic Research Annual Meeting 2022: Chicago* (June 2022).
9. Kamenetsky M, Velasquez E, **Kiang MV**, Failing our kids: Quantifying wildfire smoke PM_{2.5} exposure in California school children. “Wildfires and social vulnerability: joint impacts on health” symposium at *Society for Epidemiologic Research Annual Meeting 2022: Chicago* (June 2022).
10. **Kiang MV**, Chen Y-H, Matthay EC, Glymour MM, Bibbins-Domingo K, Humphreys K, Arthur KN, Colliding Crises: Excess fatal drug overdoses in California during the COVID-19 pandemic by race/ethnicity, education attainment, and geography. *Population Association of America Annual Meeting 2022: Atlanta* (April 2022).
11. Elser H, Parks RM, Moghavam N, **Kiang MV**, Bozinov N, Henderson VW, Rehkopf DH, Casey JA, Anomalously warm weather and acute care visits in patients with multiple sclerosis: A retrospective study of privately insured individuals in the US. *American Academy of Neurology Virtual Annual Meeting 2021: Online* (April 2021).
12. Ferguson J, Magid H, Purnell A, **Kiang MV**, Osborne T, Evaluating potential disparities in COVID-19 testing and test positivity in the Veterans Health Administration. *American Public Health Association Annual Meeting 2020: Online* (October 2020).
13. **Kiang MV**, Alexander MJ, Decomposition of the US Black/White inequality in life expectancy: Quantifying the impact of deaths of despair. *Society for Epidemiologic Research Annual Meeting 2019: Minneapolis, MN* (June 2019)
14. **Kiang MV**, Alexander MJ, Zhang Z, Chen JT, The geographical distribution of opioid mortality by race in the United States, 1999–2016: Identifying epidemic hotspots. *Population Association of America Annual Meeting 2018: Denver, CO* (April 2018)
15. **Kiang MV**, Staples P, Torous J, Alexander MJ, Onnela JP, A new platform for high density data collection in population health research. *Population Association of America Annual Meeting 2018: Denver, CO* (April 2018)
16. Alexander MJ, Barbieri M, **Kiang MV**, Opioid-related deaths by race in the United States: Trends and patterns in multiple causes of death. *Population Association of America Annual Meeting 2017: Chicago, IL* (April 2017)
17. Buckner RL, Braga RM, Hutchison M, Shermohammed M, Coombs G, Barnett IJ, **Kiang MV**, Farfel L, Marotta M, Mair R, O’Keefe T, Meickle J, Liu H, Somerville L, Onnela JP, Baker JT, Deep dynamic phenotyping of the individual: A platform for precision neuroscience. *Society for Neuroscience 2016: San Diego, CA* (November 2016)

18. Singer SJ, **Kiang MV**, Huang LC, Jiang W, Edmonson L, Berry WR, Surgical intervention climate in South Carolina hospitals: Measurement as opportunity to motivate, direct, and assess improvement. *Academy of Management 2012: Boston, MA* (August 2012)
19. Singer SJ, **Kiang MV**, Huang LC, Jiang W, Edmonson L, Berry WR, Surgical safety culture in South Carolina hospitals. *AcademyHealth 2012 Annual Research Meeting: Orlando, FL* (June 2012)
20. Singer SJ, Hayes J, Gray GG, **Kiang MV**, Collective learning in management groups: A function of making time. *AcademyHealth 2012 Annual Research Meeting: Orlando, FL* (June 2012)
21. Singer SJ, Hayes J, Gray GG, **Kiang MV**, Making time for learning in leadership teams. *Academy of Management 2011: San Antonio, TX* (August 2011)
22. Singer SJ, Clark J, Valentine M, **Kiang MV**, Kane NM, Performance of safety net hospitals: The role of organizational culture and leadership. *AcademyHealth 2011 Annual Research Meeting: Seattle, WA* (June 2011)

NATIONAL AND REGIONAL MEETINGS (POSTER PRESENTATIONS)

1. Polizzi A, **Kiang MV**, Alexander MJ. Assessing age-specific contributions to life expectancy gaps: The proportional difference comparison method. *Population Association of America Annual Meeting 2025: Washington DC* (April 2025)
2. Raquib R, **Kiang MV**, Stokes AC, A novel machine learning approach to identify COVID-19 deaths among excess deaths reported to non-COVID-19 causes. *Population Association of America Annual Meeting 2024: Columbus* (April 2024)
3. Wells W, Chen Y-H, Chen R, Stokes AC, **Kiang MV**, Torres J, Meza E, DeVost MA, Zimmerman S, Charpignon ML, Glymour MM, Effects of educational attainment on COVID-19 mortality: A natural experiment using changes in state-level school policy. *Society for Epidemiologic Research Annual Meeting 2023: Portland* (June 2023)
4. Misra S, Chen R, Stokes AC, Riley AR, Chen Y-H, **Kiang MV**, Excess deaths due to the COVID-19 pandemic among Asian American, Native Hawaiian and Pacific Islander subgroups by age, education, and nativity. *Society for Epidemiologic Research Annual Meeting 2023: Portland* (June 2023)
5. Matthey EC, **Kiang MV**, Elser H, Glymour MM, Schmidt LA, Humphreys K, Association of recreational cannabis laws with self-harm and assault injuries. *Interdisciplinary Association for Population Health Sciences Annual Conference 2020: Online* (September 2020).
6. Vable AM, **Kiang MV**, Glymour MM, Rigdon J, Drabo E, Basu S, Performance of matching methods to un-matched ordinary least squares regression under constant effects. *Society for Epidemiologic Research Annual Meeting 2018: Baltimore, MD* (June 2018).
7. Shermohammed M, Barnett IJ, **Kiang MV**, Buckner RL, Baker JT, Onnela JP, Somerville L, Deep dynamic phenotyping of the individual: Tracking within-subject variability in social and emotional behavioral profiles using smartphones. *Society for Neuroscience 2016: San Diego, CA* (November 2016)
8. Jung OS, Kite JG, Jiang W, Conley D, **Kiang MV**, Huang LC, Childers AK, Edmondson L, Berry WR, Singer SJ, Implementation objectives associated with success in delivery system innovation: Lessons from Safe Surgery 2015. *Academy of Management 2014: Philadelphia, PA* (August 2014)
9. Jung OS, Kite JG, Jiang W, Conley D, **Kiang MV**, Huang LC, Childers AK, Edmondson L, Berry WR, Singer SJ, Factors associated with effective implementation of delivery system innovations: Lessons from Safe Surgery 2015. *AcademyHealth 2014 Annual Research Meeting: San Diego, CA* (June 2014)
10. Kite JG, Jiang W, Huang LC, **Kiang MV**, Conley D, Edmondson L, Berry WR, Singer SJ, The relationship between operating room teamwork and safety checklist performance: Safe Surgery 2015. *AcademyHealth 2014 Annual Research Meeting: San Diego, CA* (June 2014)

11. Huang LC, Conley D, **Kiang MV**, Jiang W, Edmonson L, Gawande AA, Berry WR, Singer SJ, Factors associated with successful implementation of health delivery innovations: Lessons from Safe Surgery 2015. *AcademyHealth 2013 Annual Research Meeting: Baltimore, MD* (June 2013)
12. Palamar JJ, **Kiang MV**, Tortora K, Jones D, Stigma as a protective factor against illicit drug use among racial minorities. *Disparities Research to Disparities Interventions: Lessons Learned and Opportunities for the Future of Behavioral Health Services Conference: Arlington, VA* (May 2011)

INTERNATIONAL MEETINGS (PODIUM PRESENTATIONS)

1. Koenecke A, Huynh BQ, Ho DE, Rehkopf DH, Ouyang D, Chin ET, **Kiang MV**. Mitigating allocative tradeoffs and harms in an environmental justice data tool, *International Conference on Computational Social Science Annual Meeting 2024: Philadelphia, PA* (July 2024)
2. **Kiang MV**, Stokes AC, A novel machine learning approach to identify COVID-19 deaths among excess deaths reported to non-COVID-19 causes. *European Population Conference 2024: Edinburgh, Scotland* (June 2024)
3. Do V, McBrien H, Flores N, Schlegelmilch J, **Kiang MV**, Casey JA, Blackout: A nationwide county-level accounting of power outages and vulnerability, 2018-2020. *Annual Conference of the International Society for Environmental Epidemiology (ISEE) 2022: Athens, Greece* (September 2022)
4. **Kiang MV**, Alexander MJ, Zhang Z, Chen JT, The spatial distribution of opioid mortality by race in the United States. *European Population Conference 2018: Brussels, Belgium* (June 2018)
5. Singer SJ, Burgers J, Friedberg M, Rosenthal M, Leape L, Schneider E, **Kiang MV**, Integrated patient care: The next frontier. *Academy of Management 2010: Montreal, Canada* (August 2010)
6. Solomon TM, Moeller RW, Siconolfi DE, **Kiang MV**, Barton SC, Halkitis PN, Sex party attendance among young gay, bisexual, and other men who have sex with men: The role of person and environment. *International Conference on Urban Health 2010: New York, NY* (October 2010)

NON-RESEARCH PRESENTATIONS AT MEETINGS

1. Glymour MM (Chair), Schisterman E, Barber S, **Kiang MV**, Professional Development Session: How to find a postdoc. *Society for Epidemiologic Research Annual Meeting 2019: Minneapolis, MN* (June 2019)
2. Keyes KM (Chair), Howe CJ, Ashley N, Jackson J, **Kiang MV**, Professional Development Session: Surviving your dissertation. *Society for Epidemiologic Research Annual Meeting 2019: Virtual* (June 2020)

INVITED PRESENTATIONS

1. Addiction Scientists Strengthened through Education and Training (ASSET) Fellowship at San Diego State University (July 2024). San Diego, CA.
2. Addiction Scientists Strengthened through Education and Training (ASSET) Fellowship at San Diego State University (August 2023). San Diego, CA.
3. Addiction Scientists Strengthened through Education and Training (ASSET) Fellowship at San Diego State University (June 2022). San Diego, CA.
4. Department of Demography Brown Bag at University of California, Berkeley (October 2021). Berkeley, CA.
5. Addiction Scientists Strengthened through Education and Training (ASSET) Fellowship at San Diego State University (July 2021). San Diego, CA.
6. CrisisReady Panel on Wildfires, Power Outages, and the Pandemic at Harvard University (May 2021). Boston, MA.
7. Department of Epidemiology and Biostatistics at University of California, San Francisco (June 2021). Stanford, CA.

8. Department of Epidemiology and Population Health at Stanford University (May 2021). Stanford, CA.
9. National Institute on Drug Abuse Clinical Trials Network Western States Node Addiction Sciences Presentation at Stanford University (April 2021). Stanford, CA.
10. CrisisReady Panel on Data, Readiness, and Equity at Harvard University (October 2020). Boston, MA.
11. Department of Epidemiology and Population Health's Research Seminar at Stanford University (September 2020). Stanford, CA.
12. Climate Change and Equity at California Department of Public Health (September 2019). Richmond, CA.
13. Center for Population Health Sciences' Research Seminar at Stanford University (November 2018). Stanford, CA.
14. Center for Policy, Outcomes, and Prevention at Stanford University (September 2018). Stanford, CA.

Research Support

ACTIVE SUPPORT

- 07/2023 – 06/2024 **Stanford Center for Population Health Sciences** (2023 Spectrum PHS Pilot Grant)
Title: "Air pollution, social determinants of health, and timing of pubertal development"
Role: Co-Principal Investigator
- 03/2023 – 02/2025 **Stanford Cancer Institute** (2022 Cancer Equity Grand Challenge Award)
Title: "The community impact of wildfires and cancer: A community-engaged approach to understanding and addressing the burden of climate change on vulnerable populations"
Role: Multiple Principal Investigator
- 02/2023 – 01/2024 **Stanford Institute for Human-Centered Artificial Intelligence** (Seed Research Grant)
Title: "Leveraging smartphone data collection to improve data quality and sample generalizability in epidemiologic studies"
Role: Principal Investigator
- 01/2023 – 12/2027 **National Heart, Lung, and Blood Institute** (R01HL160703; MPI: Hoyt and Cohen)
Title: "The 3E Study: Economic and Educational Contributions to Emerging Adult Cardiometabolic Health"
Role: Co-Investigator
- 09/2022 – 08/2024 **National Institute on Drug Abuse** (R21DA057598; PI: Altman)
Title: "Tracking the opioid epidemic with social media: an early warning system"
Role: Co-Investigator
- 02/2021 – 01/2025 **National Institute on Drug Abuse** (R00DA051534)
Title: "Reducing racial disparities in the treatment of opioid use disorder using machine learning based causal analysis"
Role: Principal Investigator

PREVIOUS SUPPORT

- 07/2020 – 01/2022 **National Institute on Drug Abuse** (K99DA051534)
Title: "Reducing racial disparities in the treatment of opioid use disorder using machine learning based causal analysis"
Role: Principal Investigator

Professional Service

EDITORIAL SERVICE

- 10/2024 – *Section Editor*, PLOS Digital Health (Machine Learning and Clinical Decision Support)
04/2021 – *Associate Editor*, Addiction

Ad hoc reviewer American Journal of Epidemiology • American Journal of Public Health • American Journal of Preventive Medicine • Annals of Internal Medicine • BMJ Global Health • Demography • Drug and Alcohol Dependence • Environmental Health Perspectives • Epidemiology • Health Affairs • International Journal of Drug Policy • JAMA • JAMA Health Forum • JAMA Internal Medicine • JAMA Psychiatry • Journal of Urban Health • The Lancet Digital Health • The Lancet Planetary Health • The Lancet Public Health • Nature Communications • Nature Computational Science • Nature Human Behavior • New England Journal of Medicine • npj Digital Medicine • PLOS Medicine • PNAS • Science Advances • Social Science and Medicine • SSM – Population Health • Substance Abuse: Research and Treatment

SERVICE TO FUNDING AGENCIES

- 04/2025 *Mail Reviewer**, National Institutes of Health
Study section: “Interventions to prevent and treat addictions (IPTA)”
*Study section was postponed so I shifted from ad-hoc to mail reviewer due to scheduling conflict.
- 10/2023 *Scientific Reviewer (ad-hoc)*, National Institutes of Health
Study section: “Interventions to prevent and treat addictions (IPTA)”
- 03/2023 *Scientific Reviewer (ad-hoc)*, Patient-Centered Outcomes Research Institute
PFA: “Improving methods for conducting patient-centered outcomes research”
- 08/2022 *Scientific Reviewer (ad-hoc)*, Patient-Centered Outcomes Research Institute
PFA: “Improving methods for conducting patient-centered outcomes research”

SERVICE TO NATIONAL ORGANIZATIONS

- 03/2025 – 04/2025* *Member*, National Academies of Science, Engineering, and Medicine
Consensus Committee: “Strategic plan and blueprint for addressing thalassemia in the United States”
*This committee was cancelled by the CDC before completion of the project.
- 12/2022 – 02/2025 *Member*, National Academies of Science, Engineering, and Medicine
Consensus Committee: “Evaluating the effects of opioids and benzodiazepines on all-cause mortality of Veterans”

SERVICE TO PROFESSIONAL ORGANIZATIONS

- 04/2025 *Organizer & Chair*, Population Association of America Annual Meeting 2022
Concurrent presentation session: “Injury, poisoning, and other external causes of mortality and morbidity”
- 04/2022 *Co-Chair*, Population Association of America Annual Meeting 2022
Concurrent presentation session: “COVID-19: Racial and ethnic disparities”

- 02/2022 *Application Reviewer & Interviewer*, Carnegie Melon University
Data Science for Social Good Summer Fellowship
- 09/2018 – 08/2021 *Member*, Society for Epidemiologic Research
Communications Committee
- 02/2017 *Application Reviewer & Interviewer*, University of Chicago
Data Science for Social Good Summer Fellowship

Honors & Awards

- 2018 *SBS Graduate Student Travel Award*, Harvard TH Chan School of Public Health
- 2017 *Epidemiology Teaching Assistant Award*, Harvard TH Chan School of Public Health
- 2017 *SBS Graduate Student Travel Award*, Harvard TH Chan School of Public Health
- 2012 – 2016 *SBS Doctoral Student Scholarship*, Harvard TH Chan School of Public Health
- 2010 *E. George Payne Memorial Award*, New York University
- 2009 *Dean's Grant for Graduate Student Research*, New York University
- 2009 *Steinhardt Graduate Study Abroad Scholarship*, New York University
- 2009 *Wasserman Funded Internship Award*, New York University
- 2008 – 2009 *Steinhardt Graduate Student Scholarship*, New York University