

Mathew V Kiang

Assistant Professor

Department of Epidemiology & Population Health
Stanford University School of Medicine
1701 Page Mill Road, Room 235 (MC: 5560)
Palo Alto, CA 94304

↳ 650-497-5898
✉ mkiang@stanford.edu
✉ mathewkiang.com

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*

Academic 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
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

Academic Affiliations

01/2023 – *Faculty Affiliate*, Institute for Human-centered Artificial Intelligence (Stanford University)
08/2022 – *Faculty Affiliate*, Berkeley Population Center (University of California, Berkeley)
06/2022 – *Faculty Affiliate*, Wu Tsai Neurosciences Institute (Stanford University)
02/2022 – *Faculty Affiliate*, Bio-X (Stanford University)

Scholarly Publications

PEER-REVIEWED ORIGINAL RESEARCH

1. 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;6(5):e2311098. doi: 10.1001/jamanetworkopen.2023.11098
2. 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
3. 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.
4. **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.
5. 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.
6. 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.
7. 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]
8. 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.
9. 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.
10. 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.
11. 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 Aug;2(8):e0000824. doi: 10.1371/journal.pgph.0000824
12. 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.

13. 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: PMC927175.
14. 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.
15. Potter AL, Rosenstein A, **Kiang MV**, Shah SA, Gaissert HA, Chang DC, Fintelmann 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.
16. **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.
17. 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.
18. 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.
19. **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.
20. 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.
21. **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.
22. 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.
23. **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.
24. 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.

25. 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.
26. 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: 10.1177/00335549211009498. Epub 2021 Apr 7. PubMed PMID: 33826875; PubMed Central PMCID: PMC8203038.
†First authors contributed equally.
27. **Kiang MV**, Chin ET, Huynh BQ, Chapman LAC, Rodríguez-Barraquer I, Greenhouse B, Rutherford GW, Bibbins-Domingo K, Haylir 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. **Kiang MV**[†], Santillana M[†], Chen JT, Onnela JP, Krieger N, Engø-Monsen K, Ekapirat N, Areechokchai D, Prempree 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.
35. 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.
36. 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.
37. 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.
 38. **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;368:16968. doi: 10.1136/bmj.l6968. PubMed PMID: 31996352; PubMed Central PMCID: PMC7190021.
 39. **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.
 40. 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.
 41. 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.
 42. **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.
 43. 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.
 44. 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.
 45. 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/NEJMsa1803972. [‡]Senior authors contributed equally.
 46. 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.
 47. 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.
 48. Krieger N, Gruskin S, Singh N, **Kiang MV**, Chen JT, Waterman PD, Beckfield J, Coull BA. Reproductive justice and preventable deaths: state funding, family planning, abortion, and infant mortality, US 1980-2010. *SSM Population Health.* 2016 Dec;2:277-293. doi: 10.1016/j.ssmph.2016.03.007. PubMed PMID: 27453928; PubMed Central PMCID: PMC4950871.
 49. Molina G, Jiang W, Edmondson L, Gibbons L, Huang LC, **Kiang MV**, Haynes AB, Gawande AA, Berry WR, Singer SJ. Implementation of the Surgical Safety Checklist in South Carolina hospitals is associated with improvement in

- perceived perioperative safety. *Journal of the American College of Surgeons*. 2016 May;222(5):725-736.e5. doi: 10.1016/j.jamcollsurg.2015.12.052. Epub 2016 Jan 13. PubMed PMID: 27049781.
50. Krieger N, Chen JT, Waterman PD, **Kiang MV**, Feldman J. Police killings and police deaths are public health data and can be counted. *PLOS Medicine*. 2015 Dec;12(12):e1001915. doi: 10.1371/journal.pmed.1001915. eCollection 2015 Dec. PubMed PMID: 26645383; PubMed Central PMCID: PMC4672939.
51. Krieger N, Singh N, Chen JT, Coull BA, Beckfield J, **Kiang MV**, Waterman PD, Gruskin S. Why history matters for quantitative target setting: Long-term trends in socioeconomic and racial/ethnic inequities in US infant death rates (1960-2010). *Journal of Public Health Policy*. 2015 Aug;36(3):287-303. doi: 10.1057/jphp.2015.12. Epub 2015 May 14. PubMed PMID: 25971237; PubMed Central PMCID: PMC4711344.
52. 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.
53. Singer SJ, Jiang W, Huang LC, Gibbons L, **Kiang MV**, Edmondson L, Gawande AA, Berry WR. Surgical team member assessment of the safety of surgery practice in 38 South Carolina hospitals. *Medical Care Research and Review*. 2015 Jun;72(3):298-323. doi: 10.1177/1077558715577479. Epub 2015 Mar 31. PubMed PMID: 25828528.
54. 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.
55. 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.
56. 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.
57. Krieger N, Chen JT, Coull BA, Beckfield J, **Kiang MV**, Waterman PD. Jim Crow and premature mortality among the US Black and White population, 1960-2009: an age-period-cohort analysis. *Epidemiology*. 2014 Jul;25(4):494-504. doi: 10.1097/EDE.0000000000000104. PubMed PMID: 24825344; PubMed Central PMCID: PMC4710482.
58. Singer SJ, Friedberg MW, **Kiang MV**, Dunn T, Kuhn DM. Development and preliminary validation of the Patient Perceptions of Integrated Care survey. *Medical Care Research and Review*. 2013 Apr;70(2):143-64. doi: 10.1177/1077558712465654. Epub 2012 Nov 15. PubMed PMID: 23161612.
59. Palamar JJ, Halkitis PN, **Kiang MV**, Perceived public stigma and stigmatization in explaining lifetime illicit drug use among emerging adults. *Addiction Research and Theory*. 2013 Jan; 21(6):516-525. doi: 10.3109/16066359.2012.762508.
60. Palamar JJ, **Kiang MV**, Halkitis PN. Religiosity and exposure to users in explaining illicit drug use among emerging adults. *Journal of Religion and Health*. 2014 Jun;53(3):658-74. doi: 10.1007/s10943-012-9660-3. PubMed PMID: 23114835.
61. Palamar JJ, **Kiang MV**, Halkitis PN. Predictors of stigmatization towards use of various illicit drugs among emerging adults. *Journal of Psychoactive Drugs*. 2012 Jul-Aug;44(3):243-51. doi: 10.1080/02791072.2012.703510. PubMed PMID: 23061324.
62. Palamar JJ, **Kiang MV**, Storholm ED, Halkitis PN. A qualitative descriptive study of perceived sexual effects of club drug use in gay and bisexual men. *Psychology and Sexuality*. 2014 Apr 1;5(2):143-160. doi: 10.1080/19419899.2012.679363. PubMed PMID: 24883174; PubMed Central PMCID: PMC4036458.
63. Palamar JJ, **Kiang MV**, Halkitis PN. Development and psychometric evaluation of scales that assess stigma associated with illicit drug users. *Substance Use and Misuse*. 2011;46(12):1457-67. doi: 10.3109/10826084.2011.596606. Epub 2011 Jul 18. PubMed PMID: 21767076.

64. 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.
65. 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.
66. Solomon TM, **Kiang MV**, Halkitis PN, Moeller RW, Pappas MK. Personality traits and mental health states of methamphetamine-dependent and methamphetamine non-using MSM. *Addictive Behaviors*. 2010 Feb;35(2):161-3. doi: 10.1016/j.addbeh.2009.09.002. Epub 2009 Sep 9. PubMed PMID: 19786324; PubMed Central PMCID: PMC2783474.

OTHER PEER-REVIEWED PUBLICATIONS

1. 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.
2. **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.
3. **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. Glymour MM, Charpignon M-L, Chen Y-H, **Kiang MV**. Preprints and the future of scientific publishing: in favor of relevance. *American Journal of Epidemiology*. 2023 Mar 23. doi: 10.1093/aje/kwad052.
2. Heft-Neal S, Gould CF, Childs M, **Kiang MV**, Nadeau K, Duggan M, Bendavid E, Burke M. Behavior mediates the health effects of extreme wildfire smoke events, *NBER Working Paper* 20969 (Feb 2023), doi: 10.3386/w20969.
3. 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.
4. 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. 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).
2. 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).

3. **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).
4. 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).
5. **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).
6. 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. *American Academy of Neurology Virtual Annual Meeting 2021: Online* (April 2021).
7. 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).
8. **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)
9. **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)
10. **Kiang MV**, Staples P, Torous J, Alexander MJ, Onnella JP, A new platform for high density data collection in population health research. *Population Association of America Annual Meeting 2018: Denver, CO* (April 2018)
11. 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)
12. 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, Onnella JP, Baker JT, Deep dynamic phenotyping of the individual: A platform for precision neuroscience. *Society for Neuroscience 2016: San Diego, CA* (November 2016)
13. 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)
14. 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)
15. 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)
16. Singer SJ, Hayes J, Gray GG, **Kiang MV**, Making time for learning in leadership teams. *Academy of Management 2011: San Antonio, TX* (August 2011)
17. 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. Matthay 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).

2. 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).
3. Shermohammed M, Barnett IJ, **Kiang MV**, Buckner RL, Baker JT, Onnella 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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. 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)
2. **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)
3. 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)
4. 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 (June 2022). San Diego, CA.

2. Department of Demography Brown Bag at University of California, Berkeley (October 2021). Berkeley, CA.
3. Addiction Scientists Strengthened through Education and Training (ASSET) Fellowship at San Diego State University (July 2021). San Diego, CA.
4. CrisisReady Panel on Wildfires, Power Outages, and the Pandemic at Harvard University (May 2021). Boston, MA.
5. Department of Epidemiology and Biostatistics at University of California, San Francisco (June 2021). Stanford, CA.
6. Department of Epidemiology and Population Health at Stanford University (May 2021). Stanford, CA.
7. National Institute on Drug Abuse Clinical Trials Network Western States Node Addiction Sciences Presentation at Stanford University (April 2021). Stanford, CA.
8. CrisisReady Panel on Data, Readiness, and Equity at Harvard University (October 2020). Boston, MA.
9. Department of Epidemiology and Population Health's Research Seminar at Stanford University (September 2020). Stanford, CA.
10. Climate Change and Equity at California Department of Public Health (September 2019). Richmond, CA.
11. Center for Population Health Sciences' Research Seminar at Stanford University (November 2018). Stanford, CA.
12. Center for Policy, Outcomes, and Prevention at Stanford University (September 2018). Stanford, CA.

Research Support

ACTIVE SUPPORT

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 – 12/2023 **Direct Relief**

Title: “Understanding the population dynamics of natural disasters to improved emergency preparedness and response”

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** (R01DA051534)
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

- 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 Internal Medicine • JAMA Psychiatry • The Lancet Digital Health • The Lancet Public Health • Nature Communications • Nature Computational Science • Nature Human Behavior • npj Digital Medicine • PNAS • Science Advances • Social Science and Medicine • SSM – Population Health • Substance Abuse: Research and Treatment

SERVICE TO FUNDING AGENCIES

- 03/2023 *Scientific Merit Reviewer*, Patient-Centered Outcomes Research Institute
(PFA: “Improving methods for conducting patient-centered outcomes research”)
- 08/2022 *Scientific Merit Reviewer*, Patient-Centered Outcomes Research Institute
(PFA: “Improving methods for conducting patient-centered outcomes research”)

SERVICE TO NATIONAL ORGANIZATIONS

- 12/2022 – *Committee Member*, Committee on evaluating the effects of opioids and benzodiazepines on all-cause mortality of Veterans (National Academies of Science, Engineering, and Medicine)

SERVICE TO PROFESSIONAL ORGANIZATIONS

- 04/2022 *Co-Chair*, Concurrent presentation session “COVID-19: Racial and Ethnic Disparities”
(Population Association of America Annual Meeting 2022)
- 02/2022 *Application Reviewer & Interviewer*, Data Science for Social Good Summer Fellowship (Carnegie Mellon University)

09/2018 – 08/2021	<i>Member, Communications Committee (Society for Epidemiologic Research)</i>
02/2017	<i>Application Reviewer & Interviewer, Data Science for Social Good Summer Fellowship (University of Chicago)</i>

Honors & Awards

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

Teaching Experience

Stanford University School of Medicine, Stanford, CA

05/2023	<i>Guest Lecturer, HumBio163 The Opioid Epidemic: Using Neuroscience to Inform Policy and Law</i>
02/2023	<i>Guest Lecturer, Epi202 R Fundamentals for Health Research</i>
07/2022 – 08/2022	<i>Faculty Mentor, Advancing Health Equity and Diversity (AHEaD) Fellowship</i>
05/2022	<i>Guest Lecturer, Epi270 Big Data Methods for Behavioral, Social, and Population Health Research</i>
05/2022	<i>Guest Lecturer, HumBio163 The Opioid Epidemic: Using Neuroscience to Inform Policy and Law</i>
07/2021 – 08/2021	<i>Faculty Mentor, Advancing Health Equity and Diversity (AHEaD) Fellowship</i>

Government of Bangladesh Directorate General of Health Services, Dhaka, BGD

09/2019	<i>Instructor, Big Data for Infectious Disease Epidemiology Workshop</i>
---------	--

Harvard TH Chan School of Public Health, Boston, MA

01/2018	<i>Course Developer, Using Python for Research (via HarvardX – Version 2), Professor JP Onnela</i>
01/2018 – 03/2018	<i>Teaching Assistant, Dynamics of Infectious Disease, Professor Caroline Buckee</i>
10/2016	<i>Course Developer, Using Python for Research (via HarvardX – Version 1), Professor JP Onnela</i>
01/2017 – 03/2017	<i>Teaching Assistant, Dynamics of Infectious Disease, Professor Caroline Buckee</i>
09/2013 – 11/2013	<i>Teaching Assistant, Society and Health, Professor Ichiro Kawachi</i>

Instituto Tecnológico Autónomo de México, Mexico City, MEX

03/2017	<i>Instructor, Introduction to Causal Inference for Data Science Workshop</i>
---------	---

New York University, New York USA

01/2010 – 03/2010	<i>Course Assistant, Biostatistics II, Professor Ying Lu</i>
09/2009 – 11/2009	<i>Course Assistant, Statistics I, Professor Robert Norman</i>