

Yifan Zhang

Contact

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Professional Experience

Department of Health Policy, Stanford University	
<i>Senior Research Scholar</i>	2026 – Present
<i>Social Science Research Scholar</i>	2019 - 2026
<i>Research Fellow</i>	2015 - 2019

Center for Biostatistics and AIDS Research, Harvard University	
<i>Research Associate</i>	2014 - 2015

Education

PhD, Biostatistics	Harvard University	2014
MS, Biostatistics	Harvard University	2010
BSc, Actuarial Science	The University of Hong Kong	2008

Publications

2025	Miller M, Wertz J, Swanson SA, Simonetti JA, Zhang Y, Azrael DR. Firearm storage and firearm suicide. JAMA Network Open. 8(7):e2519266.
2024	Miller M, Zhang Y, Studdert DM, Swanson S. Updated estimate of the number of extreme risk protection orders needed to prevent one suicide. JAMA Network Open. 7(6):e2414864.

- 2023 Swanson SA, Studdert DM, Zhang Y, Prince L, Miller M. Handgun divestment and risk of suicide. *Epidemiology*. 34(1):99–106.
- 2022 Studdert DM, Zhang Y, Holsinger EE, Prince L, Holsinger AF, Rodden JA, Wintemute GJ, Miller M. Homicide deaths among adult cohabitants of handgun owners in California, 2004–2016: a cohort study. *Ann Intern Med*. 175(6):804–811.
- 2022 Miller M, Zhang Y, Prince L, Swanson SA, Wintemute GJ, Holsinger EE, Studdert DM. Suicide deaths among women in California living with handgun owners vs those living with other adults in handgun-free homes, 2004–2016. *JAMA Psychiatry*. 79(6):582–588.
- 2022 Swanson SA, Miller M, Zhang Y, Prince L, Holsinger EE, Templeton Z, Studdert DM. Patterns of handgun divestment among handgun owners in California. *Injury Epidemiology*. 9(1):1–6.
- 2022 Chin ET, Leidner D, Zhang Y, Long E, Prince L, Schrag SJ, Verani JR, Wiegand RE, Alarid-Escudero F, Goldhaber-Fiebert JD, Studdert DM. Effectiveness of COVID-19 vaccines among incarcerated people in California state prisons: retrospective cohort study. *Clin Infect Dis*. 75(1):e838–e845.
- 2021 Chin ET, Leidner D, Zhang Y, Long E, Prince L, Li Y, Andrews JR, Studdert DM, Goldhaber-Fiebert JD, Salomon JA. Effectiveness of the mRNA-1273 vaccine during a SARS-CoV-2 Delta outbreak in a prison. *N Engl J Med*. 385(24):2300–2301.
- 2020 Studdert DM, Zhang Y, Swanson SA, Prince L, Rodden JA, Holsinger EE, Spittal MJ, Wintemute GJ, Miller M. Handgun ownership and suicide in California. *N Engl J Med*. 382(23):2220–2229.
- 2020 Zhang Y, Holsinger EE, Prince L, Rodden JA, Swanson SA, Miller M, Wintemute GJ, Studdert DM. Assembly of the LongSHOT cohort: public record linkage on a grand scale. *Inj Prev*. 26(2):153–158.

- 2019 Zhang Y, Trippa L, Parmigiani G. Frequentist operating characteristics of Bayesian optimal designs via simulation. *Stat Med.* 38(21):4026–4039.
- 2019 Studdert DM, Spittal MJ, Zhang Y, Wilkinson DS, Singh H, Mello MM. Changes in practice among physicians with malpractice claims. *N Engl J Med.* 380(13):1247–1255.
- 2017 Studdert DM, Zhang Y, Rodden JA, Hyndman RJ, Wintemute GJ. Handgun acquisitions in California after two mass shootings. *Ann Intern Med.* 166(10):698–706.
- 2016 Zhang Y, Trippa L, Parmigiani G. Optimal Bayesian adaptive trials when treatment efficacy depends on biomarkers. *Biometrics.* 72(2):414–421.
- 2013 Hammitt JK, Zhang Y. Combining experts' judgments: comparison of algorithmic methods using synthetic data. *Risk Anal.* 33(1):109–120.

Working Papers

Zhang Y, Miller M, Rogers SO, Swanson SA, Holsinger EE, Studdert DM. Handgun ownership and suicide among race and ethnicity minorities in California.

Miller M, Zhang Y, Swanson SA, Holsinger EE, Studdert DM. Homicide deaths among female cohabitants of handgun owners: a cohort study of secondhand exposure to household firearms in California.

Rosenberg A, Miller M, Zhang Y, Hirsch S, Swanson SA, Studdert DM. Handgun acquisition in California during the pandemic: patterns by demographic and prior ownership.

Holsinger EE, Holsinger AF, Zhang Y, Prince L, Miller M, Studdert DM. Circumstances of homicide deaths in homes without firearms.

Research Funding

- 2017–2018 Fund for a Safer Future / New Venture Fund: Longitudinal Study of Handgun Ownership and Transfer – Phase I — Investigator
- 2019–2021 National Collaboration of Gun Violence Research: Investigator-Initiated Research and Evaluation on Firearms Violence — Investigator
- 2019–2021 American Foundation for Suicide Prevention: Risk of Suicide Mortality Among 1 Million Handgun Purchasers: A Cohort Study — Investigator
- 2021–2022 National Collaboration of Gun Violence Research: Firearm Suicide Among Racial and Ethnic Minorities — Investigator
- 2021–2022 Bechtel Health Policy Research Fund: Firearm Ownership as Risk Factor for Suicide Among Racial and Ethnic Minorities — Co-Primary Investigator
- 2021–2024 National Institutes of Health: Relationship Between Lawful Handgun Ownership and Risk of Homicide Victimization in the Home — Investigator

Selected Presentations

- 2021 California Department of Corrections and Rehabilitation, Virtual. “Prison–community COVID-19 transmission pattern.”
- 2021 California Department of Public Health, Virtual. “Carceral–community COVID-19 transmission modeling and analyses: multivariate time series framework.”
- 2020 Joint Statistical Meetings (ASA), Virtual. “Which handgun owners are at highest risk of suicide?”
- 2019 Data Science and Gun Violence Conference (NISS), Washington, DC. “The Longitudinal Study of Handgun Ownership and Transfer project.”
- 2017 HPC Advisory Council, Stanford, CA. “HPC impact in a cohort study of the health effects of handgun ownership in California.”

- 2014 Bayesian Biostatistics & Bioinformatics Conference, Houston, TX. “Bayesian adaptive design and frequentist inference.”
- 2013 ENAR, International Biometric Society, Orlando, FL. “Optimal Bayesian adaptive trial when treatment efficacy is affected by biomarkers.”
- 2013 AAAS Annual Meeting, Boston, MA. “Optimal Bayesian adaptive design.”