

CURRICULUM VITA

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EDUCATION

University of California, Berkeley

Ph.D. Environmental Health Sciences, School of Public Health

Dissertation Topic: *Race and Class Determinants of Exposures to Environmental Hazards*

M.P.H. Epidemiology/Biostatistics, School of Public Health

B.A. Development Studies (Phi Beta Kappa)

PROFESSIONAL APPOINTMENTS

July 2012-Present: Professor, University of California, Berkeley, Department of Environmental Science, Policy and Management (Society and Environment Division) & School of Public Health (Division of Community Health Science & Environmental Health Sciences Graduate Group)

July 2015-2019: Chair, Society and Environment Division, University of California, Berkeley, Department of Environmental Science, Policy and Management

July 2012-Present: Faculty Affiliate, University of California, San Francisco, Program on Reproductive Health and the Environment

July 2007-June 2012: Associate Professor, University of California, Berkeley, Department of Environmental Science, Policy and Management (Society and Environment Division) & School of Public Health (Division of Community Health and Human Development)

July 2010-2013: Director, Doctor of Public Health Program, University of California Berkeley, School of Public Health.

April 2007-July 2007: Associate Professor, Brown University, Department of Community Health, School of Medicine & Center for Environmental Studies

July 2004- March 2007: Robert and Nancy Carney Assistant Professor, Brown University Department of Community Health, School of Medicine & Center for Environmental Studies

July 2002-June 2004 : Assistant Professor, Brown University, Department of Community Health, School of Medicine & Center for Environmental Studies

August 2000-June 2002: Assistant Professor, San Francisco State University, College of Health and Human Services, Department of Health Education

July 1999-August 2000: National Science Foundation Post-doctoral Research Fellow, University of California, Berkeley, Energy and Resources Group

January-May 2000: Lecturer, University of California, Berkeley School of Public Health, PH-220C *Risk Assessment, Policy, and Toxics Regulation*

January-May 1999: Lecturer, University of California, Berkeley School of Public Health, PH-202 *Ethnic and Cultural Diversity in Health Status and Behavior*

1998-1999: University of California, President's Post-doctoral Research Fellow, University of California, Santa Cruz, Departments of Sociology and Environmental Studies

Spring Semesters 1995 & 1996: Graduate Student Instructor, University of California Berkeley, School of Public Health, Community Health Education Division, PH-202 *Ethnic and Cultural Diversity in Health Status and Behavior*

Spring 1996: Graduate Student Instructor, University of California Berkeley, School of Public Health, Environmental Health Sciences Division, PH-150 *Introduction to Epidemiology and Environmental Health*

1992-95: Research Assistant, University of California Berkeley, School of Public Health, Environmental Health Policy Program, Professor James C. Robinson.

1995: Research Intern, US Environmental Protection Agency, Office of Policy, Washington, DC

1992-1993: Research Assistant, University of California, Berkeley School of Public Health, Maternal and Child Health Program, Professor Sylvia Guendelman

1988-1991, Research and Policy Associate, Equal Rights Advocates, San Francisco, CA

PUBLICATIONS

*Denotes paper written with a student or post-doctoral fellow

BOOKS

Brown P, **Morello-Frosch R**, Zavestoski S (2011) *Contested Illnesses: Citizens, Science and Health Social Movements*. University of California Press, Berkeley CA.

CHAPTERS IN BOOKS AND MONOGRAPHS (REFEREED)

1. Cacari Stone L, Pastor M, Griffin J, **Morello-Frosch R**, Minkler, M. (2022) Moving the Policy Dial through Equity-focused Community Organizing. In : *Community Organizing and Community Building for Health and Welfare* (4th edition). Meredith Minkler and Patricia Wakimoto eds., Rutgers University Press, New Brunswick, NJ.
2. Brody J.G., Brown P., **Morello-Frosch R**. (2019) Returning Chemical Exposure Results to Individuals and Communities. In: *Environmental Health Literacy* Finn S., O'Fallon L. eds., Springer.
3. **Morello-Frosch R**, Brown P, Brody JG (2017) "Democratizing Ethical Oversight of Research through CBPR." In: *CBPR for Health 2nd edition* Nina Wallerstein, Bonnie Duran, John Oetzel, Meredith Minkler eds., Jossey Bass Press.
4. **Morello-Frosch R** and Pastor M (2016): "Environmental Justice and Vulnerable Populations" in: *Environmental Health*, Howard Frumkin, ed., Jossey Bass Press.
5. Forman, F, Solomon, G, **Morello-Frosch, R** and Pezzoli, K (2016) Chapter 8. Bending the Curve and Closing the Gap: Climate Justice and Public Health. *Collabra*, 2(1): 22, pp. 1–17, DOI: <http://dx.doi.org/10.1525/collabra.67>
6. **Morello-Frosch R**, Brown P (2014) "Science, Social Justice and Post-Belmont Research Ethics: Implications for Regulation and Environmental Health Science." In: *Science and Technology Studies Handbook*, Daniel Kleinman and Kelly Moore, eds. Routledge.

7. Corder A, Brown P, **Morello-Frosch R** (2014). "Health Social Movements" in William Cockerham, Robert Dingwall, and Stella Quah, eds. Wiley-Blackwell *Encyclopedia of Health, Illness, Behavior, and Society*. Wiley-Blackwell.
8. Corder A, Brown P, **Morello-Frosch R** (2014). "Health" in David Pellow, Joni Adamson, and William Gleason, eds. *Keywords in the Study of Environment and Culture*, New York University Press.
9. **Morello-Frosch R**, Pastor M, Sadd J, Prichard M, Matsuoka M (2012). "Citizens, Science and Data Judo: Leveraging Secondary Data Analysis to Build a Community-Academic Collaborative for Environmental Justice in Southern California." In *Methods for Conducting Community-Based Participatory Research in Public Health*, Second Edition. Barbara Israel, Eugenia Eng, Amy Shultz, Edith Parker, eds. University of Michigan, Jossey-Bass Press.
10. Pastor M, **Morello-Frosch R**, Sadd J, Scoggins J (2013). "Risky Business: Cap-and-Trade, Public Health, and Environmental Justice." In, C.G. Boone and M. Fragkias (eds.), *Urbanization and Sustainability: Linking Urban Ecology, Environmental Justice and Global Environmental Change, Human-Environment Interactions 3*, DOI 10.1007/978-94-007-5666-3_6.
11. **Morello-Frosch R**, Brown P, Brody JG, Altman RG, Rudel RA, Zota AR, Pérez C (2011). "Experts, Ethics, and Environmental Justice: Communicating and Contesting Results from Personal Exposure Science." In: *Environmental Justice and the Transformation of Science and Engineering*, Gwen Ottinger, Benjamin Cohen eds, MIT Press.
12. *Zota AR, **Morello-Frosch R** (2011) "Maternal and Child Health Disparities." *Encyclopedia of Environmental Health*, Elsevier, pp. 630-634
13. Brown P, **Morello-Frosch R**, Zavestoski S, Senier L, Altman RG, Hoover E, McCormick S, Mayer B, Adams C. "Health Social Movements: Advancing *Traditional Medical Sociology Concepts*." In *Handbook of Health, Illness & Healing: Blueprint for the 21st Century*, Bernice A. Pescosolido, Jack K. Martin, Jane McLeod, and Anne Rogers eds. New York, Springer, 2011.
14. Brown P, **Morello-Frosch R**, Zavestoski S, Senier L, Altman RG, Hoover E, McCormick S, Mayer B, Adams C. Mayer B, Adams C. "Field Analysis and Policy Ethnography in the Study of Health Social Movements." In: *Social Movements and the Transformation of American Health Care*. Jane C. Banaszak-Holl, Sandra R. Levitsky, Mayer N.Zald eds. Oxford University Press, 2010.
15. Brown P, Adams C, **Morello-Frosch R**, Senier L, Simpson R. "Health, Social Movements: History, Current Work and Future Directions" in *Handbook of Medical Sociology*. Peter Conrad, Chloe Bird, Allan Fremont, and Stefan Timmermans eds. Vanderbilt University Press, 2010.
16. *Shonkoff S, **Morello-Frosch R**, Pastor M, Sadd J (2009) "Environmental Health and Equity Impacts from Climate Change and Mitigation Policies in California: A Review of the Literature." In: *Cal-EPA Climate Action Team Report*. Publication # CEC-500-2009-038-D. Available at: <http://www.climatechange.ca.gov/publications/cat/index.html>
17. **Morello-Frosch R**, Zavestoski S, Brown P, McCormick S, Mayer B, Gasior R. "Embodied Health Movements: Responses to a 'Scientizd' World." In *The New Political Sociology of Science: Institutions, Networks, and Power*. Kelly Moore and Scott Frickel, eds. Madison, WI: University of Wisconsin Press. (2006).
18. Pastor M, Bullard RD, Boyce J, Fothergill A, **Morello-Frosch R**, Wright B: *In the Wake of the Storm: Environment, Disaster, and Race after Katrina*, May 2006 Russell Sage Foundation, New York, NY.
19. **Morello-Frosch R**, Pastor M, Sadd J, Porras C, Prichard M. "Citizens, Science, and Data Judo: Leveraging Community-based Participatory Research to Build a Regional Collaborative for

Environmental Justice in Southern California.” In *Methods for Conducting Community-Based Participatory Research in Public Health*. Barbara Israel, Eugenia Eng, Amy Shultz, Edith Parker, eds. University of Michigan, Jossey-Bass Press (2005).

REFEREED JOURNAL ARTICLES

*Denotes paper written with a student or post-doctoral fellow

1. *Trowbridge JA, Gerona RR, McMaster M, Ona K, Clarity C, Besseneau V, Rudel R, Buren H, **Morello-Frosch R** (2022) Organophosphate and organohalogen flame-retardant exposure and thyroid hormone disruption in a cross-sectional study of female firefighters and office workers from San Francisco. *Environmental Science and Technology*. 56, 1, 440–450.
2. *Pace C, Balazs C, Goddard J, Cushing LJ, **Morello-Frosch R**. (2022) Inequities in Drinking Water Quality Among Domestic Well Communities and Community Water Systems, California, 2011–2019. *American Journal of Public Health*, 112, 88_97, <https://doi.org/10.2105/AJPH.2021.306561>.
3. Cushing LJ, **Morello-Frosch R**, Hubbard A (2022) Extreme heat and its association with social disparities in the risk of spontaneous preterm birth. *Paediatric and Perinatal Epidemiology*. 36:13–22.
4. Casey JA, Cushing LJ, Depsky N, **Morello-Frosch R** (2021) Climate justice and California’s methane super-emitters: An environmental equity assessment of community proximity and exposure intensity. *Environmental Science and Technology*, <https://doi.org/10.1021/acs.est.1c04328>
5. *Tran K, Casey JA, Cushing LJ, **Morello-Frosch R** (2021) Residential proximity to hydraulically fractured oil and gas wells and adverse birth outcomes in urban and rural communities in California (2006-2015). *Environmental Epidemiology*, 5: 6 doi: 10.1097/EE9.000000000000172.
6. *Eick SM, Goin DE, Trowbridge J, Cushing LJ, Crispo-Smith S, Park JS, DeMicco E, Padula A, Woodruff TJ, **Morello-Frosch R** (2021) Dietary predictors of prenatal per- and poly-fluoroalkyl substances (PFAS) exposure. *Journal of Exposure Assessment and Environmental Epidemiology*, <https://doi.org/10.1038/s41370-021-00386-6>.
7. *Clarity C, Trowbridge J, Gerona R, Ona K, McMaster M, Bessonneau V, Rudel R, Buren H, Rudel RA, **Morello-Frosch R** (2021) Associations between polyfluoroalkyl substance and organophosphate flame retardant exposures and telomere length in a cohort of women firefighters and office workers in San Francisco. *Environmental Health*, <https://doi:10.1186/s12940-021-00778-z>
8. *Goin D, Sudat S, Riddell C, **Morello-Frosch R**, Apte J, Glymour MM, Karasek D, Casey J (2021) Hyper-localized measures of air pollution and preeclampsia in Oakland, California. *Environmental Science and Technology*, Forthcoming.
9. Jiang, T Wang M, Wang A, Abrahamsson D, Kuang W, **Morello-Frosch R**, Park JS, Woodruff, TW (2021) Large-Scale Implementation and Flow Investigation of Human Serum Suspect Screening Analysis for Industrial Chemicals. *Journal of the American Society for Mass Spectrometry*. Forthcoming
10. *Eick, S.M., Goin, D.E., Cushing, L. DeMicco E, Park JS, Wang Y, Smith S, Padula A, Woodruff TJ, **Morello-Frosch R** (2021) Mixture effects of prenatal exposure to per- and polyfluoroalkyl substances and polybrominated diphenyl ethers on maternal and newborn telomere length. *Environmental Health* 20, 76 (2021). <https://doi.org/10.1186/s12940-021-00765-4>
11. *Abrahamsson D, Wang A, Jiang T, Wang M, Siddharth A, **Morello-Frosch R**, Sirota M, Woodruff TJ (2021) A comprehensive non-targeted analysis study of the prenatal exposome. *Environmental Science & Technology*. 55(15):10542-10557 <https://doi: 10.1021/acs.est.1c01010>
12. Bessonneau, V., Gerona, R.R., Trowbridge, J. Grashow R, Lin T, Buren H, Rudel RA, **Morello-Frosch R** (2021) Gaussian graphical modeling of the serum exposome and metabolome reveals

- interactions between environmental chemicals and endogenous metabolites. *Scientific Reports* 11, 7607 <https://doi.org/10.1038/s41598-021-87070-9>
13. Casey JA, Rudolph KA, Robinson SC, Bruxvoort K, Raphael E, Hong V, Pressman A, **Morello-Frosch R**, Wei RX, Tartof SY (2021) Sociodemographic inequalities in urinary tract infection in two large California health systems. *Open Forum Infectious Diseases*, 8(6), ofab276, <https://doi.org/10.1093/ofid/ofab276>.
 14. Elser H, **Morello-Frosch R**, Jacobson A, Pressman A, Kioumourtzoglou MA, Reimer R, Casey JA (2021) Air pollution, methane super-emitters, and oil and gas wells in Northern California: the relationship with migraine headache prevalence and exacerbation. *Environmental Health* 20:45. <https://doi.org/10.1186/s12940-021-00727-w>
 15. Riddell C, Goin DE, **Morello-Frosch R**, Apte JS, Glymour MM, Torres JM, Casey JA (2021) Hyper-localized measures of air pollution and risk of preterm birth in Oakland and San Jose, California. *International Journal of Epidemiology*, Forthcoming.
 16. Padula A, Ma C, Huang H, **Morello-Frosch R**, Woodruff TJ, Carmichel S (2021) Drinking water contaminants in California and hypertensive disorders in pregnancy. *Environmental Epidemiology*, 5(2): e14. doi: 10.1097/EE9.000000000000149
 17. *Wang A, Abrahamsson DP, Jiang T, Wang M, **Morello-Frosch R**, Park JS Sirota M, Woodruff TJ (2021) Suspect Screening, Prioritization, and Confirmation of Environmental Chemicals in Maternal-Newborn Pairs from San Francisco. *Environmental Science & Technology* DOI: 10.1021/acs.est.0c05984
 18. *Goin DE, Casey JA, Kioumourtzoglou MA, Cushing LJ, **Morello-Frosch R** (2021) Environmental hazards, social inequality, and fetal loss: Implications of live-birth bias for estimation of disparities in birth outcomes. *Environmental Epidemiology*. 5(2) p e131 doi: 10.1097/EE9.000000000000131
 19. *Eick SM, Goin DA, Cushing LJ, DeMicco E, Smith S, Park JS, Padula AM, Woodruff TJ, **Morello-Frosch R**. (2021) Joint effects of prenatal exposure to per- and poly-fluoroalkyl substances and psychosocial stressors on corticotropin releasing hormone during pregnancy. *Journal of Exposure Science and Environmental Epidemiology*. <https://doi.org/10.1038/s41370-021-00322-8>.
 20. *Nardone A, Rudolph KA, **Morello-Frosch R**, Casey JA (2021) Redlines and Greenspace: The Relationship between Historical Redlining and 2010 Greenspace across the United States. *Environmental Health Perspectives*. <https://doi.org/10.1289/EHP7495>
 21. *Eick, S.M.; Enright, E.A.; Geiger, S.D.; Dzwilewski, K.L.C.; DeMicco, E.; Smith, S.; Park, J.-S.; Aguiar, A.; Woodruff, T.J.; **Morello-Frosch, R.**; Schantz S. (2021) Associations of Maternal Stress, Prenatal Exposure to Per- and Polyfluoroalkyl Substances (PFAS), and Demographic Risk Factors with Birth Outcomes and Offspring Neurodevelopment: An Overview of the ECHO.CA.IL Prospective Birth Cohorts. *Int. J. Environ. Res. Public Health* 18, 742. <https://doi.org/10.3390/ijerph18020742>
 22. *Goin DE, Izano MA, Eick SM, Padula AM, DeMicco E, Woodruff TJ, **Morello-Frosch R** (2021) Maternal experience of multiple hardships and fetal growth: Extending environmental mixtures methodology to social exposure. *Epidemiology*. 32: 18–26.
 23. *Eick, S.M., Hom Thepaksorn, E.K., Izano, M.A. Cushing LJ, Park JS, Valeri L, Woodruff TJ, **Morello-Frosch R**. (2020) Associations between prenatal maternal exposure to per- and polyfluoroalkyl substances (PFAS) and polybrominated diphenyl ethers (PBDEs) and birth outcomes among pregnant women in San Francisco. *Environmental Health* 19, 100 <https://doi.org/10.1186/s12940-020-00654-2>

24. *Izano MA, Cushing LJ, Lin J, Epel E, Woodruff TJ, **Morello-Frosch R** (2020) The Association of Maternal Psychosocial Stress with Newborn Telomere Length. PLoS ONE. <https://doi.org/10.1371/journal.pone.0242064>
25. Ogburn EL, Rudolph KE, **Morello-Frosch R**, Khan A, Casey JA (2020) A warning about using predicted values from regression models for epidemiologic inquiry. *American Journal of Epidemiology*. Epidemiology, 2020;:, kwaa282, <https://doi.org/10.1093/aje/kwaa282>
26. Elser H, Goldman-Mellor S, **Morello-Frosch R**, Ranjbar K, Deziel N, Casey JA (2020) Petro-riskscape and environmental distress in West Texas: Community perceptions of environmental degradation, threats, and loss. *Energy Research and Social Science*. 70 101798 <https://doi.org/10.1016/j.erss.2020.101798>
27. *Nardone AL, Casey JA, Rudolph KE, Karasek D, Mujahid M, **Morello-Frosch R** (2020) Associations between historical redlining and birth outcomes from 2006 through 2015 in California. PLoS ONE 15(8): e0237241. <https://doi.org/10.1371/journal.pone.0237241>
28. *Ju Y, Cushing LJ, **Morello-Frosch R** (2020) An Equity Analysis of Clean Vehicle Rebate Programs in California. *Climatic Change*. <https://doi.org/10.1007/s10584-02002836-w>
29. Buchanan M Kulp S, Cushing L, **Morello-Frosch R**, Nedwick T, Strauss B (2020) Sea level rise and coastal flooding threaten affordable housing. *Environmental Research Letters*, 15 124020. <https://doi.org/10.1088/1748-9326/abb266>
30. *Eick SM, Goin DE, Izano MA, Cushing L, DeMicco E, Padula AM, **Morello-Frosch R** (2020) Relationships between psychosocial stressors among pregnant women in San Francisco: A path analysis. *PLoS ONE* 15(6): e0234579. <https://doi.org/10.1371/journal.pone.0234579>
31. *Tran KV, Casey JA, Cushing LJ, **Morello-Frosch R** (2020) Residential proximity to oil and gas development and birth outcomes in California: a retrospective cohort study of 2006-2015 births. *Environmental Health Perspectives*. 128(6) June 2020 <https://doi.org/10.1289/EHP5842>
32. *Trowbridge J, Gerona RR, Lin T, Rudel RA, Bessonneau V, Buren H, **Morello-Frosch R** (2020) Exposure to perfluoroalkyl substances in a cohort of women firefighters and office workers in San Francisco. *Environmental Science and Technology* DOI: 10.1021/acs.est.9b05490.
33. Grashow R, Bessonneau V, Gerona R, Wang A, Trowbridge J, Lin T, Buren H, Rudel RA, **Morello-Frosch R** (2020) Integrating exposure knowledge and serum suspect screening as a new approach to biomonitoring: An application in firefighters and office workers. *Environmental Science and Technology* <https://doi.org/10.1021/acs.est.9b04579>.
34. *Nardone A, Casey JA, **Morello-Frosch R**, Mujahid M, Balmes JR, Thakur N (2020) Associations between historical residential redlining and current age-adjusted asthma emergency department visit rates across eight cities of California: an ecological study. *Lancet Planetary Health* Jan;4(1):e24-e31. doi: 10.1016/S2542-5196(19)30241-4.
35. *Varshavsky JR, **Morello-Frosch R**, Harwani A, Snider M, Petropoulou SSE, Park JS, Petreas M, Reynolds P, Nguyen T, Quach T (2020) A pilot biomonitoring study of cumulative phthalates exposure among Vietnamese American nail salon workers. *International Journal of Environmental Research and Public Health* 17, 325; doi:10.3390/ijerph17010325.
36. Padula A, Monk C, Brennan P, Borders A, Barrett E, McEvoy C, FossC, Desai P, Alshawabkeh A, Wurth R, Salafia C, Fichorova R, Varshavsky J, Kress A, Woodruff TJ, **Morello-Frosch R**. (2020) A review of maternal prenatal exposures to environmental chemicals and psychosocial stressors - implications for research on perinatal outcomes in the ECHO Program. *Journal of Perinatology*. 40:10–24. <https://doi.org/10.1038/s41372-019-0510-y>

37. *Casey JA, Goin D, Rudolph KE, Schwartz BS, Mercer D, Elcer H, Eisen EA, **Morello-Frosch R** (2019) Unconventional natural gas development and adverse birth outcomes in Pennsylvania: The potential mediating role of antenatal anxiety and depression. *Environmental Research* 177 (2019) 108598.
38. *Petteway RJ, Mujahid M, Allen A, **Morello-Frosch R** (2019) The body language of place: A new method for mapping intergenerational “geographies of embodiment” in place-health research. *Social Science and Medicine* 223: 51-63.
39. *Petteway RJ, Mujahid M, Allen A, **Morello-Frosch R** (2019) “Towards a People’s Social Epidemiology: Envisioning a More Inclusive and Equitable Future for Social Epi Research and Practice in the 21st Century.” *Int. J. Environ. Res. Public Health* 16, 3983; doi:10.3390/ijerph16203983
40. *Casey JA, Karasek, D, Ogburn, EK, Goin D, Dang K, Braveman, PA, **Morello-Frosch R** (2018) Coal and oil power plant retirements in California associated with reduced preterm birth among populations nearby. *American Journal of Epidemiology*, doi: 10.1093/aje/kwy110. [Epub ahead of print].
41. Cushing, L., D. Blaustein-Rejto, M. Wander, M. Pastor, J. Sadd, A. Zhu, R. **Morello-Frosch R** (2018) Carbon trading, co- pollutants, and environmental equity: evidence from California’s cap-and-trade program *PLoS Med* 15(7): e1002604. <https://doi.org/10.1371/journal.pmed.1002604>. *Awarded Best Environmental Justice Paper by the International Society for Environmental Epidemiology, 2021
42. *Casey JA, Karasek, D, Gemmill A, Ogburn, EK, Goin D, **Morello-Frosch R** (2018) Increase in fertility following coal and oil power plant retirements in California. *Environmental Health*. 2018; 17: 44. doi: 10.1186/s12940-018-0388-8.
43. *Wang A, Gerona R, Schwartz JM, Lin T, Sirota M, **Morello-Frosch R**, Woodruff T (2018). A Suspect Screening Method for Characterizing Multiple Chemical Exposures among a Demographically Diverse Population of Pregnant Women in San Francisco. *Environmental Health Perspectives*, <https://doi.org/10.1289/EHP2920>.
44. Perovich L, Ohayon J, Cousins E, **Morello-Frosch R**, Brown, P Adamkiewicz G, Brody J, (2018) “Reporting to Parents on Children’s Exposures to Asthma Triggers in Low-Income and Public Housing: Environmental Literacy, Individual Action, and Public Health Benefits” *Environmental Health* 17:48.
45. *Varshavsky JR, **Morello-Frosch R**, Woodruff T, Zota A (2018) Dietary sources of cumulative phthalates exposure among the U.S. general population in NHANES 2005-2014. *Environment International* <https://doi.org/10.1016/j.envint.2018.02.029>
46. *Huang, H, Wang A, **Morello-Frosch R**, Lam J, Sirota M, Padula A, Woodruff T (2018) Cumulative Risk and Impacts Modeling on Environmental Chemical and Social Stressors. *Curr Environ Health Rep*. 2018 Feb 13. doi: 10.1007/s40572-018-0180-5.
47. Carrera JS, Brown P, Brody JG, **Morello-Frosch R** (2018) Research altruism as motivation for participation in community-centered environmental health research. *Social Science and Medicine* 2018 Jan;196:175-181
48. *Casey J, James P, Cushing L, Jesdale BM, **Morello-Frosch R** (2017) Race, ethnicity, and income concentration and 10-year change in urban greenness in the United States. *International Journal of Environmental Research and Public Health*. 2017 Dec 10;14(12). pii: E1546. doi: 10.3390/ijerph14121546.
49. McHale CM, Osborne G, **Morello-Frosch R**, Salmon AG, Sandy MS, Solomon G, Zhang L, Smith MT, Zeise L (2017) Assessing Health Risks from Multiple Environmental Stressors: Moving from

G×E to I×E, *Mutation Research/Reviews in Mutation Research*
<https://doi.org/10.1016/j.mrrev.2017.11.003>

50. *Vesterinen HM, **Morello-Frosch R**, Sen S, Zeise L, Woodruff TJ (2017) Cumulative effects of prenatal-exposure to exogenous chemicals and psychosocial stress on fetal growth: systematic-review of the human and animal evidence, *PLOS ONE*, <https://doi.org/10.1371/journal.pone.0176331>
51. *Casey JA, **Morello-Frosch R**, Mennitt DJ, Frstrup K, Ogburn EL, James P. (2017) Race/ethnicity, socioeconomic status, residential segregation, and spatial variation in noise exposure in the contiguous United States. *Environmental Health Perspectives*, DOI:10.1289/EHP898.
52. Boronow KE, Susmann HP, Krzysztow GZ, Rudel RA, Arnold KC, Brown P, **Morello-Frosch R**, Havas L, Brody JG (2017) DERBI: A Digital Method to Help Researchers Offer “Right-to-Know” Personal Exposure Results, *Environmental Health Perspectives* 125(2) A27-A33.
<http://dx.doi.org/10.1289/EHP702>.
53. Ohayon JL, Cousins E, Brown P, **Morello-Frosch R**, Brody JG. (2017). “Researcher and institutional review board perspectives on the benefits and challenges of reporting back biomonitoring and environmental exposure results.” *Environmental Research* 153: 140-149. DOI:
<http://dx.doi.org/10.1016/j.envres.2016.12.003>.
54. **Morello-Frosch R**, Cushing LJ, Jesdale BM, Schwartz JM, Guo W, Guo T, Wang M, Harwani S, Syrago- Petropoulou SSE, Duong W, Park J-S, Petreas M, Gajek R, Alvaran J, She J, Dobraca D, Das R, Woodruff TJ (2016) Environmental Chemicals in an Urban Population of Pregnant Women and their Newborns from San Francisco. *Environ Sci and Technol* DOI: 10.1021/acs.est.6b03492.
55. Solomon GM, **Morello-Frosch R**, Zeise L, Faust J (2016) Cumulative Environmental Impacts: Science and Policy to Protect Communities. *Annual Review of Public Health*. 37:83–96.
56. Cohen AK, Lopez A, Malloy N, **Morello-Frosch R** (2016) Surveying for Environmental Health Justice: Community Organizing Applications of Community-Based Participatory Research. *Environmental Justice*, 9(5) 129-135. DOI: 10.1089/env.2016.0008
57. Shenassa E, Cohen J, **Morello-Frosch R**, Payne-Sturges DC (2016) Disparities in U.S. Children’s Secondhand Smoke Exposure and Income Inequality. *Nicotine & Tobacco Research* DOI:
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58. Sadd JL, Hall E, Pastor M, **Morello-Frosch R**, Lowe-Liang D, Hayes J, Swanson C. (2015) Ground-Truthing Validation to Assess the Effect of Facility Locational Error on Cumulative Impacts Screening Tools. *Geography Journal* Volume 2015, Article ID 324683, Available at:
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Morello-Frosch R. “End Double Jeopardy: New principles can stop us from dumping on minorities and the poor.” *Earth 3.0, Scientific American*. June 2009.

Morello-Frosch R and Pastor M. “The Climate Gap: Is Federal Climate Policy Doing Enough to Narrow the Disparities for People of Color and the Poor?” Opinion Page Editorial, *Huffington Post*. May 30, 2009. Available at: http://www.huffingtonpost.com/rachel-morellofrosch/the-climate-gap-is-federa_b_209355.html

Pastor M, **Morello-Frosch R**, Sadd J “Still toxic after all these years.” Opinion Page Editorial, *San Francisco Chronicle*, February 15, 2007.

Morello-Frosch R, Gallegos B, Pastor M: “Neighborhood Pollution Data at Risk.” Opinion Page Editorial, *San Jose Mercury News*, January 8, 2006.

Brown P, **Morello-Frosch R**: “Effective Disease Prevention Includes Looking at Environment.” Opinion Page Editorial, *Cape Code Times*, December 4, 2005.

Pastor M, **Morello-Frosch RA**: “Assumption is Wrong: Latinos Care Deeply About the Environment.” Opinion Page Editorial, *San Jose Mercury News*, July 8, 2002.

Morello-Frosch RA, Pastor M and Porras C: “Who’s Minding the Air at Your Child’s School?” Opinion Page Editorial, *Los Angeles Times*, June 3, 2001.

Pastor, M, **Morello-Frosch, R**: “Good Social Research Needs Data on Race.” Opinion Page editorial *San Jose Mercury News*, April 20, 2001.

Pastor M, Porras C, **Morello-Frosch, R**: “The Region’s Minorities Face Major Health Risks from Pollution Environment: Justice Demands that the AQMD Cut Emissions.” Editorial, *Los Angeles Times*, March 16, 2000.

INVITED LECTURES & KEYNOTE SPEECHES

“The Climate Gap: Connecting equity and sustainability to advance environmental justice” Johns Hopkins Bloomberg School of Public Health Colloquium, December 2021

“The Climate Gap: Connecting equity and sustainability goals to advance environmental justice.” University of Washington, School of Public Health Research Colloquium, November 2021.

“From the cell to the street: Addressing structural determinants to advance the science of environmental justice.” Plenary Talk Environmental Research 2021 Conference (Global Health Plenary), November 2021

“From the cell to the street: Addressing structural determinants to advance the science of environmental justice.” US EPA Office of Research and Development Strategic Planning Workshop, September 2021.

“The Climate Gap: Connecting equity and sustainability goals to advance environmental justice” American Thoracic Society Keynote Lecture, May 2021

"Strategies for conducting ethical community-engaged science to advance environmental justice" Stanford University, May 2021

"Understanding cumulative impacts of environmental hazards, climate change, and structural racism on community health: a primer for journalists" *Grist Magazine* April 2021

"From the cell to the street: Research and policy strategies to address structural determinants of environmental health" Harvard NIEHS Environmental Health Center Colloquium, April 2021

“Integrating justice and sustainability goals into climate change policy in California” Heath Effects Institute Annual Conference, April 2021

- "From the cell to the street: Approaches to studying chemical and non-chemical mixtures" NIEHS Combined Exposures/Mixtures Faculty Colloquium February 2021
- "Structural Determinants of Social and Environmental 'Stressogens': Implications for Perinatal Health Outcomes." Invited Colloquium Lecture, University of Illinois, Champaign-Urbana. November 2020.
- "Structural Determinants of Environmental Health." Invited colloquium lecture, Boston University, School of Public Health, Department of Environmental Health Science. November 2020.
- "The Haves, Have Nots, and the Health of Everyone: Implications for sustainability and environmental justice." Invited colloquium lecture, Bill Lane Center for the American West, Stanford University. October 2020.
- "Strategies for Climate Justice in Philanthropy." Invited Panelist, The Seattle Foundation. June 2020.
- "Advancing Equity in Climate Change Policy: The Case of Market-based Greenhouse Gas Reduction Strategies." Invited Panelist, Institute for Sustainability, Energy and Environment Conference, University of Illinois, September 2019.
- "The Women Firefighter Biomonitoring Collaborative" Invited Keynote Lecture, 2019 National Firefighter Cancer Symposium. University of Miami, June 2019.
- "Harmonizing sustainability and environmental equity goals in California's climate change policies," Invited Colloquium Lecture, Center for Environmental Politics, University of Washington, March 2019.
- "Assessing the Public Health Benefits of Air Quality Actions: 'Natural' Experiments." Invited Lecture California Department of Public Health, Tracking California, April 2019.
- "Equity and Environment: What's the Connection?" Invited Colloquium Lecture, UC Berkeley Data Science Initiative, December 2018
- "Environmental Justice, Social Equity and Public Health: What's the connection and why it matters." Invited Keynote Lecture, Yale School of Forestry and Natural Resources, October, 2018.
- "Links between Social Equity and Environmental Health." 12th Annual Sugar, Stress, Environment & Weight Symposium, University of California, San Francisco, September 2018
- "The Climate Gap: Connecting equity and sustainability to advance environmental justice." Keynote Lecture, International EcoSalud/Ecohealth Conference, Universidad del Valle, Cali Colombia, August 2018.
- "Assessing the combined effects of environmental and social 'stressogens': Implications for breast cancer research" California Breast Cancer Research Program, June 2018.
- "Health Equity Implications of California's Cap and Trade Program." CA Air Resources Board, June 2018.
- "Advancing the rigor, relevance, and reach of exposure science through community driven research." Center for Occupational and Environmental Health Research Symposium, UC Davis, May 2018.
- "Equity and the Environment: What's the connection?" Berkeley Institute for Data Science, UC Berkeley, May 2018.
- "Combined effects of environmental chemicals and social stress: A review of the evidence and implications for research and policy." Invited panelist, Pediatric Academic Society Conference, Toronto Canada, May, 2018.
- "The Combined Effects of Environmental and Social Stress." 30th Anniversary Superfund Research Program, UC Berkeley, January, 2018.

- “Integrating Equity into Climate Change Policy.” Panelist for the Lancet Countdown on Health and Climate Change: The Greatest Global Health Opportunity of the 21st Century, November 2017.
- “Assessing the combined effects of environmental and social stress: A review of the evidence and implications for research and policy.” National Institute of Environmental Health Sciences, Children’s Environmental Health Centers Annual Meeting, San Francisco, CA October 2017.
- “The Science of Cumulative Impacts: Implications for Community Environmental Health and Regulatory Decision-Making.” Superfund Research Program NIEHS T32 Colloquium, Brown University, May 2017.
- “The Climate Gap: Community-engaged strategies to advance environmental justice and sustainability.” 5th Anniversary Historically Black Colleges and Universities Climate Change Conference, Deep South Center for Environmental Justice, Dillard University, March 2017.
- “The Haves, The Have-nots, and the Health of Everyone: Connections Between Equity and Sustainability.” Cal-EPA Children’s Environmental Health Conference, Sacramento, CA, April 2017
- “How Environmental Justice Moves Science Upstream: Implications for Regulatory Decision-making.” Cal-EPA Office of Environmental Health Hazard Assessment. February, 2017.
- “Bridging the Racial Divide: Putting Environmental Justice into Practice in Environmental Health Philanthropy.” Health and Environmental Funders Network, November 2016.
- “The Haves, the Have-nots and the Health of Everyone: How Community-engaged Science Can Advance Sustainability.” Department of Environmental Studies, Doshisa University, Kyoto Japan, December 2016.
- “The Haves, the Have-nots and the Health of Everyone: How Community-engaged Science Can Advance Sustainability.” Meiji University, Tokyo Japan, December 2016.
- “The Climate Gap.” Urban Environmental Justice in an Era of Climate Change Symposium, University of Washington, November 2016.
- “Environmental Health Equity and Sustainability: What’s the Connection?” Yerby Diversity Lecture, Harvard T.H. Chan School of Public Health, October 2016.
- “Advancing the Rigor, Relevance and Reach of Science through Community Engaged Research.” ANR Conference, Davis, CA October 2016.
- “The Haves, the Have-Nots and the Health of Everyone.” Environmental Health Sciences Annual Colloquium, Columbia University Mailman School of Public Health, September 2016.
- “Advancing the Rigor, Relevance and Reach of Environmental Health Science: The Women Firefighter Biomonitoring Collaborative.” Cal-EPA Department of Toxics Substances Control Seminar, September 2016.
- “Environmental Justice and Race in Public Health.” California Environmental Protection Agency Environmental Justice Symposium, Sacramento, CA August 2016
- “Stressogens and the Environmental Riskscape: Implications for Population Health and Policy.” UCSF Grand Rounds, May 2016.
- “Assessing the combined effects of environmental and social stress: A review of the evidence and implications for research.” National Institute of Environmental Health Sciences, April 2016.
- “Connecting the Dots Between Community-engaged Science and Environmental Sustainability.” Superfund Research Program Annual Meeting, San Juan Puerto Rico, November 2015
- “Educating Biomonitoring Participants About their Exposure to Environmental Chemicals.” Biomonitoring California, Scientific Guidance Panel, Richmond, CA. November 2015.

- “Linking Citizen Science and Social Equity to Advance Sustainability: What's the Connection?” Sustainability Colloquium, University of Southern California, Dornsife College, October 2015.
- “The Future of Environmentalism and Environmental Education.” Panelist with William Cronon, Van Jones, Bill McKibben and Gernot Wagner for the 50th Anniversary Celebration of Environmental Studies at Middlebury College, October 2015.
- “Communicating results in post-Belmont era biomonitoring studies – Implications for researchers and study participants.” Colloquium, University of Cincinnati Department of Environmental Health Sciences, October 2015.
- “The Equity and Environment Nexus.” Colloquium, Stanford University, Department of Earth System Science, September 2015.
- “Closing the Climate Gap through Collaborative Mitigation and Adaptation Strategies.” California Department of Public Health, Richmond, CA September, 2015
- “Environmental Justice and Health Disparities.” Colloquium, National Institute of Minority Health and Health Disparities,” Washington DC, August 2015.
- “Moving Upstream to Address Environmental Health Disparities: Implications for Regulatory Science.” Colloquium, US EPA, Headquarters, Washington, DC, June 2015.
- “The Color Line Reflected in Green: The racial/ethnic distribution of heat risk-related land cover in relation to residential segregation.” California Environmental Protection Agency Conference-- Indicators of Climate Change in California. Sacramento, CA June 2015.
- “Co-Production of Results Communication Protocols for Biomonitoring California”, *Social Science Environmental Health Collaborations Conference*, Northeastern University, Department of Sociology and Anthropology and Health Sciences, Boston, MA, May 2015.
- “Researching environmental exposures in Richmond: A community-engaged process.” UC Berkeley School of Public Health Research Conference, Berkeley CA, May 2015.
- “The Climate Gap: Linkages between Equity and Climate Change Vulnerability.” Institute for Urban and Regional Development Conference, Berkeley, CA, April 2015.
- “Environmental Othering and the Climate Gap.” *Othering and Belonging Conference*, Haas Institute for a Fair and Inclusive Society, UC Berkeley, Oakland CA, April 2015.
- “Advancing the Rigor, Relevance and Reach of Environmental Health Research Through Community-engaged Science.” University of Michigan, School of Public Health, Ann Arbor, MA March 2015.
- “What People and Communities Can Do to Address Land Use Impacts on Health.” Panelist, South Coast Air Quality Management District Conference, Environmental Justice for All. Los Angeles, CA February 2015.
- “Tools for Geographic Based Community Vulnerabilities to Environmental Stressors.” National Academies of Sciences ESEH Committee. December 2014
- “Educating Patients and the Public About Exposure to Environmental Chemicals: What Does the Science Say?” Program on Reproductive Health and the Environment, UCSF, November 2014
- “Hard Times and Environmental Justice.” Invited Panelist, American Sociological Association Conference, 2014, August, 2014, San Francisco, CA.
- “Urban Health and the Political Economy of Risksapes: Cumulative Impacts and Environmental Health Science.” National Academies of Sciences, Institute of Medicine Environmental Health Roundtable, July 28, 2014, Woods Hole, MA.

- “Environmental Health Disparities: Implications for Breast Cancer Research and Community-engagement in Knowledge Production.” California Breast Cancer Research Program, July 18, 2014, Oakland CA.
- “Data Sharing to Advance Environmental Justice: Challenges and Opportunities.” Health and Environmental Funders Network Conference, June 2014, Washington, DC.
- “Environmental Justice Screening for Climate Change Vulnerability.” Workshop on Vulnerability Mapping for Climate Change Risks, California Department of Public Health, California Environmental Protection Agency and California Natural Resources Agency, April 2014, Sacramento, CA.
- “Moving Upstream to Address Environmental Justice Inside and Outside the Classroom.” Duke University, Center for Human Rights Colloquium, February 2014, Durham, NC.
- “The Climate Gap.” University of Illinois, Chicago, Great Cities Institute, Latinos, Environmental Justice and Climate Change Colloquium. February 2014, Chicago, Illinois (with Manuel Pastor).
- “Interactions Between Environmental and Social Stressors. Data Needs, Future Research Trajectories and Strategies for Policy.” Robert Wood Johnson Health Policy Scholars Annual Meeting, Coronado, CA May 2013.
- “The Science of ‘Riskscapes’: Implications for Reproductive Environmental Health.” Program on Reproductive Health and the Environment Conference, UCLA, Los Angeles, CA November 2012.
- “Environmental Justice Screening Methods: Strategies for Community Engagement.” Briefing for US EPA Administrator, Lisa Jackson, Los Angeles, CA. February 2012.
- “Comunicando resultados de biomonitoring químico: Desafíos éticos.” Colloquium Lecture for the University of Puerto Rico, Capay, March 2012
- “Logando la justicia ambiental a través de la participación comunitaria en la ciencia de salud pública.” Colloquium Lecture for the University of Puerto Rico, Capay, March 2012
- “The Climate Gap: Inequalities in How Climate Change Hurts Americans and How to Close the Gap.” American Association of Law Schools Annual Conference, Berkeley, CA. May 2012.
- “Environmental Justice Screening Methods: Strategies for Community Engagement.” Bay Area Air Quality Management District. CARE Taskforce Meeting. June 2012.
- “Understanding the Origins and Persistence of Environmental Health Disparities: Implications for Research and Community Engagement in Scientific Knowledge Production.” Directors Seminar, National Cancer Institute, September 2012.
- “Synthesizing the Science on Cumulative Impacts: Implications for Research and Policy-making.” Centers for Disease Control and Prevention/ATSDR. National Center for Environmental Health Director’s Seminar. Atlanta, GA. December 2012.
- “The Science of ‘Riskscapes’: Cumulative Impacts of Environmental and Social Stressors.” American Academy of Child and Adolescent Psychiatry Association Meeting, San Francisco, CA October 2012.
- “Moving Upstream to Address Environmental Justice.” Health and Environmental Funders Network, Annual Meeting, Los Angeles, CA March 2011.
- “Understanding the Cumulative Effects of Inequalities In Environmental Health.” Invited Plenary Speaker for Press Briefing and Forum on Environmental Health sponsored by *Health Affairs*, Washington, DC, May 2011.
- “Moving Upstream to Address Environmental Justice: Cumulative Impacts Assessment and Screening Approaches.” Invited Testimony, Clean Air Council, New Jersey Department of Environmental Protection, April 2011.

- “Communicating about Chemical Body Burden.” Podcast for *Environmental Health Perspectives* (with Tracey Woodruff), May 2011.
- “The Science of Cumulative Impacts and Implications for Policy-making.” Invited Plenary Speaker, Grant-makers in Health Annual Meeting, Los Angeles, CA March 2011.
- “Cumulative Impacts Assessment and Screening Strategies—Tools for Decision-making.” Invited Colloquium Speaker (with Manuel Pastor), US EPA Office of Environmental Economics, Washington, DC, October 2010.
- “Improving the Rigor, Relevance and Reach of the Science of Cumulative Impacts.” Invited Plenary Speaker, National Institute of Environmental Health Sciences, Inaugural Public and Environmental Health Program Meeting, Research Triangle Park, NC August, 2010
- “The Climate Gap: Inequalities in How Climate Change Hurts Americans and How to Close the Gap.” Plenary Speaker, National Council of La Raza and the Congressional Hispanic Caucus Meeting, San Antonio, Texas, July 2010.
- “Community Engagement in the Science of Cumulative Impacts.” Invited Colloquium Speaker, Dartmouth College Environmental Studies Department, May 2010.
- “Minding the Climate Gap—Implications for the Implementation of AB32 in California.” Invited Presentation for the California Environmental Protection Agency, Sacramento, CA May 2010.
- “Moving Upstream to Address Environmental Justice: The Political Economy of Place and Cumulative Impacts.” Invited Plenary Talk for US EPA for their conference: Strengthening Environmental Justice and Decision-making: A Symposium on the Science of Disproportionate Environmental Health Impacts, Washington, DC, March 2010.
- “The Climate Gap—How Inequalities in the Impact of Climate Change Affect Americans and How to Close the Gap.” American Planning Association Meeting, San Francisco, February 2010.
- “Climate Change and Air Pollution—Implications for Environmental Health Inequalities, Invited Presentation with CARB Chairman Mary Nichols, American Lung Association Meeting, Sacramento, CA November 2009. :
- “Climate Change and Environmental Justice.” Invited plenary presentation, Sixth Annual California Climate Change Research Symposium, California Environmental Protection Agency and the California Energy Commission, Sacramento, CA September 2009.
- “Looking Ahead: What’s on the Horizon for California’s Environmental Health and Justice Movements.” Invited keynote presentation, The California Wellness Foundation Conference on Environmental Health, San Francisco, CA September 2009.
- “Cumulative Impact, environmental justice, and strategies for communicating personal exposure information.” Invited presentation, American Cancer Society Environmental Health Policy Committee, Oakland, CA August 2009.
- “Background and Framing of Results Communication and Report-back Issues.” Invited presentation to the Scientific Guidance Panel of the California Environmental Health Biomonitoring Program, Oakland, CA, July 2009.
- “Cumulative Impacts Analysis and Opportunities for Climate Justice.” Invited Panelist, West Harlem Environmental Action Conference on Climate Justice, New York, January 30, 2009.
- “An Approach to Assessing Inequalities in Cumulative Impacts.” Presentation to the Cumulative Impacts and Precautionary Approaches Working Group, Cal-EPA and the Office of Environmental Health Hazard Assessment, December 10, 2008.

- “The Right to Know in an Era of Toxic Ignorance: Ethical and Scientific Challenges for Reporting Back Personal Exposures to Environmental Chemicals.” Invited presentation for The Bay Area Breast Cancer & the Environment Research Center, Town Hall Meeting, Oakland, CA, March 1, 2008.
- “Geographies of Environmental Health Inequality,” Environmental Studies Colloquium, University of California, Santa Cruz, CA October 2007.
- “Visualizing Impact and Vulnerability in Communities.” Invited presentation for the California Air Pollution Control Officers’ Association (CAPCOA), Carson, CA September 2007.
- “Still Toxic After all These Years: Environmental Justice, the Bay Area, and Challenges for Future Research and Policy.” Invited lecture for US EPA Region 9 Regional Science Council Seminar (With Manuel Pastor and James Sadd), San Francisco, CA September 2007.
- “Examining Geographies of Inequality in Environmental Health.” Invited panelist for the Association of American Geographers Conference, San Francisco, CA April 2007.
- “Spatial Inequality and Environmental Health Disparities: What’s the Evidence?” Invited panelist for the American Association for the Advancement of Science Conference, San Francisco, CA March 2007.
- “Still Toxic After All These Years.” Invited presentation to the Bay Area Air Quality Management District Executive Committee, March 2007.
- “The Right to Know & the Right to Act: Ethical, Scientific, and Environmental Justice Issues of Biomonitoring.” Invited lecture (with Julia Brody, Executive Director of the Silent Spring Institute) for the Boston Consensus Conference on Biomonitoring, sponsored by Boston University, School of Public Health, Boston, CA, December 11, 2006.
- “Embodying Social Inequality: Segregation and Community Vulnerability to Environmental Hazards.” Invited lecture for the Colloquium on Race, Poverty and the Environment, sponsored by the Department of Environmental Science, Policy and Management, School of Natural Resources, University of California, Berkeley, February 6, 2006.
- “Race, Space and Environmental Health Inequalities.” Invited lecture for the Spring Colloquium Series sponsored by the Center for the Study of Race and Ethnicity in America, Brown University, February 3, 2006.
- “Breast Cancer and Environmental Health Disparities: Implications for Research, Intervention and Policy.” Invited workshop presentation, sponsored by the California Breast Cancer Research Program, Sacramento, California, September 11, 2005.
- “California Dreaming—Separate and Unequal: Segregation and the Distribution of Air Pollution Burdens.” Invited statewide teleconference lecture (“Chairman’s Lecture”) for officials and staff at the California Air Resources Board and the California Environmental Protection Agency.” Sacramento, California, July 20, 2005.
- “The Riskscape and the Colorline: Examining the Role of Segregation in Environmental Health Disparities.” Invited lecture for a workshop: Methods for Assessing Environmental Health Disparities, May 24-25 2005, Ann Arbor, MI., sponsored by the United States Environmental Protection Agency, Office of Children’s Health Protection and the National Institute of Environmental Health Sciences, May 25, 2005.
- “Separate But Unequal: The relationship between residential segregation, air toxics and associated cancer risks.” Invited lecture sponsored by the United States Environmental Protection Agency, Region 1, Conference on the Science of Environmental Justice, Boston, MA May 26, 2004.
- “Citizens, Science and Data Judo: Leveraging Community-Based Participatory Research for Environmental Justice in California,” Invited lecture sponsored by the University of California, San Diego Department of Ethnic Studies and the School of Medicine, San Diego, CA, March 10, 2004.

- “Separate But Unequal: A National Analysis of the Relationship Between Segregation and Air Quality,” Invited lecture for the seminar series on social determinants of health sponsored by the Rhode Island Public Health Association and the Department of Community Health, School of Medicine, Brown University, Providence, RI, December 3, 2003.
- “Citizens, Science, and Data Judo: Environmental Justice Struggles Over the Science of Regulation and Fact-making in Public Health.” Invited plenary paper, American Society for Environmental History, Providence, RI, March 27, 2003.
- “Precaution and Cumulative Impact: Policy Dilemmas for Environmental Regulation and Environmental Justice in California.” Invited lecture, Center for Public Policy and Administration, University of Massachusetts, Amherst, February 27, 2003.
- “Why Addressing Cumulative Impact is Important for Environmental Justice.” California Environmental Protection Agency, Advisory Committee on Environmental Justice. Invited testimony and policy briefing, Sacramento, CA, February 18, 2003.
- “Racism Redux: The Demographics of Toxic Air Release Facilities in 21st Century California.” Invited paper (co-authored with Manuel Pastor), Conference Title: *Nuestro Ambiente: Latinos/as and Environmental Justice* Conference, University of Michigan, Ann Arbor, MI, November 24, 2002.
- “Reading, Writing and Toxics: The Environmental Justice Implications of Ambient Air Toxics Concentrations among School Children in Los Angeles.” Invited Panel Presentation, American Public Health Association Conference, Philadelphia, PA, November 12, 2002.
- “Integrating the Precautionary Principle and Environmental Justice in Research and Policy-making.” Colloquium, Sponsored by the Center for the Study of Race and Ethnicity in America, Brown University, Providence, RI, November 7, 2002.
- “Political Economy of Environmental Discrimination: Airborne Toxics & Environmental Justice in California.” Invited Lecture, International Environmental Health Colloquium, Sponsored by the Henry Luce Foundation & the United Nations Environment Programme, in collaboration with Watson Institute for International Studies on the Environment, Brown University, Providence, RI, April 3, 2002.
- “Assessing Environmental Inequality in Southern California.” Invited policy briefing (with Manuel Pastor and James Sadd), The California Endowment, Los Angeles, CA, January 8, 2002.
- “Science, Citizens and Risk: Conflicts over Pesticides and GMOs.” Invited keynote speech, Californians for Pesticide Reform Annual Conference, University of California, Santa Cruz, CA, October 14, 2001.
- “Environmental Justice and the Geography of Risk.” Invited Lecture (with Manuel Pastor), Colloquium Scripps Institute for the Humanities and Sciences, Scripps College, Claremont, CA November 3, 2001.
- “Environmental Justice, Social Capital, and Lessons Learned from the Field of Social Epidemiology: The Case of Los Angeles.” Invited Lecture, Environmental Studies Colloquium, Sponsored by the Environmental Studies Program and the Department of Community Health, School of Medicine, Brown University, Providence, RI, April 10, 2001.
- “Incorporating Environmental Justice into Regulatory Decision-making.” Invited policy briefing (with Manuel Pastor) for the State of California Governor’s Office of Planning and Research, Sacramento, CA, February 2001.
- “Public Health Implications of Ambient Air Toxics in California.” Invited lecture, United States Environmental Protection Agency, Region 9, San Francisco, CA, January 2001.
- “Air Toxics in California: Using Comparative Risk Assessment to Examine Public Health and Environmental Justice Implications.” Invited lecture, Office of Environmental Health Hazard

Assessment, California Environmental Protection Agency, Air Toxicology and Epidemiology Section, Oakland, CA January 2001.

“Environmental Justice and Southern California’s Riskscape: The Distribution of Air Toxics and Associated Health Risks Among Diverse Communities—Implications for Policy and Politics.” Hampshire College, Amherst, MA, October 2000.

“Equity and Southern California’s Riskscape: The Distribution of Lifetime Cancer Risks Associated with Ambient Air Toxics.” Invited briefing for the National Environmental Justice Advisory Commission (NEJAC), advisory committee to the US Environmental Protection Agency Atlanta, Georgia, May, 2000.

CONFERENCE PRESENTATIONS

“The haves, the have-nots, and the health of everyone: Implications for environmental sustainability and justice.” International Society of Environmental Epidemiology, North America, Virtual Talk, October 2020.

“Assessing Cumulative Environmental Exposures and Social Stressors to Improve Health.” International Society of Exposure Science Annual Conference, Symposium Panelist, September 2020.

“Association Between Exposure to Per- and Polyfluoroalkyl Substances (PFAS) During Pregnancy and Biomarkers of Stress Response in the Maternal-Fetal Unit.” International Society for Environmental Epidemiology Conference, August, 2018

“The Effects of Maternal Psycho-Social Stress on a Biomarkers of Stress Response and Gestational Age.” International Society for Environmental Epidemiology Conference, August, 2018

“The Haves, the Have Nots, and the Health of Everyone: Methods and policy applications for cumulative impact analysis.” American Public Health Association, November 2018

“The Colorline Reflected in Green.” American Public Health Association Meeting, Boston, MA, November 2013.

“Experiences of Racial Discrimination in Relation to Residential Segregation, American Public Health Association Meeting, Boston, MA, November 2013.

“A Screening Tool for Climate Change Vulnerability Assessments.” American Public Health Association Meeting, Washington, DC, November 2011. (with Paul English)

“Playing It Safe: Assessing Cumulative Impact and Social Vulnerability through an EJ Screening Method.” American Public Health Association Meeting, Washington, DC, November 2011.

“High Allostatic Load Modifies the Effect of Lead Exposure on Risk of High Blood Pressure.” International Society of Environmental Epidemiology Annual Meeting, Barcelona, Spain, September 2011.

“Race and Segregation Modify the Effects of Traffic Pollution on Birth Weight.” International Society of Environmental Epidemiology Annual Meeting, Barcelona, Spain, September 2011.

“When Pollution Gets Personal: Usability Testing with Study Participants for Development of Results Communication Protocols.” International Society of Environmental Epidemiology, Annual Meeting, Barcelona, Spain, September 2011.

“When Pollution Gets Personal: Scientific and Ethical Challenges of Reporting Biomonitoring Results.” AAAS Annual Meeting, Washington, DC, February 2011.

“Does Community Vulnerability Amplify the Relationship between Traffic Exposure and Preterm Birth?”, American Public Health Association Annual Meeting, November 2010.

- “Minding the Climate Gap:: Assessing the Equity Impacts of Mitigation Strategies.” American Public Health Association Annual Meeting, November 2010.
- “Chemicals in Our Bodies: Developing Report-back Protocols with Input from Study Participants.” Workshop on the Ethics of Reporting Personal Environmental Exposures, Harvard Law School, September 2010.
- “Community-based Participatory Exposure Assessment Research in an Environmental Justice Community: Preliminary Results and Communication,” International Society of Environmental Epidemiology Conference, Pasadena, CA September 2008.
- “‘Toxic Ignorance’ and the Right-to-Know: Ethical and Scientific Challenges of Reporting Data in Biomonitoring Research,” International Society of Environmental Epidemiology Conference, Pasadena, CA September 2008.
- “Air Pollution and Preeclampsia among Pregnant Women in California, 1996-2004.” International Society of Environmental Epidemiology Conference, Pasadena, CA September 2008.
- “The Riskscape and the Colorline: Methodological and Science-Policy Considerations for Addressing Environmental Health Disparities.” American Public Health Association Conference, San Diego, CA, November 2008.
- “The Riskscape and the Colorline: Theoretical and Methodological Considerations for Examining Geographies of Inequality in Environmental Health.” International Society of Environmental Epidemiology Conference, Mexico City, Mexico, September 2007.
- “Experts Ethics and Environmental Justice.” American Association of Geographers Conference, Boston, MA, April 2008.
- “To Know or Not to Know: Ethical and IRB Challenges in Biomonitoring Research.” American Public Health Association Conference, Boston, MA, November 2006.
- “The Right to Know, the Right to Act, and the Right Not-to-Know: Ethical and Scientific Dilemmas of Reporting Data in Body Burden Research.” American Sociological Association Conference, Montreal Canada, August 2006.
- “Tracking, Segregation, and Environmental Justice: Addressing Multi-Level Measures of Socioeconomic Position in Environmental and Public Health Surveillance.” American Public Health Association Conference, Washington, DC November 2004.
- “Social Movements in Health: Responses to and Shapers of a Changed Medical World.” American Sociological Association Meeting, San Francisco, CA August 2004 (Phil Brown, presenter).
- “Addressing Environmental Justice in Environmental and Public Health Tracking: Theoretical and Methodological Considerations.” International Society of Environmental Epidemiology Conference, New York, NY August 2004.
- “Separate and Unequal: Racial segregation & air quality in U.S. metropolitan areas,” International Society of Environmental Epidemiology Conference, New York, NY August 2004.
- “Separate But Unequal? Residential Segregation and Demographic Distributions of Cancer Risks Associated with Air Toxics in California,” American Public Health Association Conference, San Francisco, CA, November 2003.
- “Science, Knowledge and Environmental Causation of Breast Cancer,” American Public Health Association Conference, San Francisco, CA, November 2003.
- “Environmental Justice and Regional Inequality in the Los Angeles Metropolitan Area: Implications for Environmental Health.” American Association of Geographers Conference—Urban Health Session, New York, NY, March 2001.

- “Environmental Justice and Air Toxics in Southern California—An Equal Opportunity Problem?” American Public Health Association Meeting, Boston, MA, November 2000.
- “Approaches Toward Community-based Environmental Health Research: Building Relationships Between Academia and Activism.” Liberty Hill Foundation Environmental Justice Institute, Los Angeles, CA November 2000.
- “Science, Environmental Justice, and the Politics of Market-based Approaches to Environmental Regulation.” International Society for Environmental Epidemiology & International Society for Exposure Assessment Conference, Athens, Greece, September, 1999.
- “Air Toxics and Health Risks in California: The Public Health Implications of Outdoor Concentrations.” International Society for Environmental Epidemiology & International Society for Exposure Assessment Conference, Athens, Greece, September 1999.
- “Decreasing the Gap: Developing a Research Agenda on Socioeconomic Status, Environmental Exposures, and Health Disparities.” (Panel chair and discussant) National Institute of Environmental Health Sciences, Oakland, CA, January 1999.
- “Assessing Cancer Risk from Aggregate Hazardous Air Pollutant Concentrations Across the United States.” American Public Health Association Conference, Washington, DC, November, 1998.
- “Comparative Risk and Environmental Justice: Using Modeling Data to Assess the Distribution of Aggregate Health Risks of Outdoor Hazardous Air Pollutants in California.” American Public Health Association Conference, Washington, DC, November 1998.
- “Environmental Justice: Balancing the Need for Advocacy and Science.” (Session co-chair and discussant) American Society of Epidemiology Conference, San Francisco, CA, September 1998.
- “Assessing Environmental Equity: Methodologies for Using Modeling Data to Examine the Distribution of Air Toxics and Associated Health Risks Among Diverse Communities.” Poster presentation, International Society for Environmental Epidemiology & International Society for Exposure Assessment Conference, Boston, CA, August 1998.
- “Environmental Justice and the Distribution of Air Toxics and Associated Health Risks Among Diverse Communities in California.” Society for Risk Analysis Conference, Washington, DC, December 1997.
- “Theoretical and Methodological Challenges of Environmental Justice Research.” Environmental Studies Colloquium, University of California, Santa Cruz, Santa Cruz, CA, October 1997.
- “Who’s Breathing Bad Air: An Environmental Justice Assessment of Air Toxics in the San Francisco Bay Area.” Poster presentation, University of California Toxic Substances Research and Teaching Program, Santa Cruz, CA, April 1996.
- “Pilot Study of Factors Associated with Pesticide Poisoning Incidents in California Agriculture.” American Public Health Association Conference, Washington, DC, October 1994.
- “The Distribution of Toxic Air Emissions from Toxic Release Inventory Facilities in California.” National Institute of Environmental Health Sciences (NIEHS) Symposium on Health Research and Environmental Justice, Washington, DC, February 1994.
- “Double Jeopardy: The Intersection of Immigration Law and Civil Rights Law and the Impact on Undocumented Women Workers,” American Public Health Association Conference, San Francisco, CA, October 1993.

RESEARCH GRANTS AND SUBCONTRACTS

ACTIVE GRANTS AND CONTRACTS

Strategic Growth Council

\$688,188, 9/01/2018 – 5/31/2022

Toxic Tides: Sea Level Rise, Hazardous Sites, and Environmental Justice in California.

To spatially analyze the potential impacts of coastal flooding, including impacts on hazardous sites, due to sea level rise (SLR) on disadvantaged communities in California. Role: PI

20212116 (Reynolds, Woodruff, UCSF PIs)

National Institutes of Health

9/1/2021 – 8/31/2027

New Cohorts for Environmental Exposures and Cancer Risk.

To build a pregnancy cohort to examine associations between prenatal exposures to multiple environmental chemicals and effect biomarkers of relevance for breast cancer. Role: Co-PI

1R01 ES025158-01, NIH/NIEHS (PI Woodruff, UCSF)

\$499,694, 7/1/16 – 6/30/22

Discovery of Novel Environmental Chemicals in a Diverse Population of Maternal-infant pairs

To propose a new method to more effectively screen and identify chemical exposures in neonates and their mothers for a greater percentage of chemicals highly used in commerce, thus providing a means to significantly improve our understanding of maternal and neonatal exposures, and how these may vary by race/ethnicity and socioeconomic status. Role: Co-PI

UG3/UH3 NIH/NIEHS:

Environmental Influences on Child Health Outcomes (ECHO) (PI Schantz, University of Illinois)

\$495,744, 9/1/16-8/31/2023

Cumulative Effects of Prenatal Stress and Chemical Exposures on Child Development

To integrate two pregnancy cohorts in Illinois and California to assess the impact of exposure of mothers to endocrine disrupting chemicals and chronic stress during pregnancy on both birth outcomes and early neurodevelopment. This research will explore the impact of exposure of mothers to endocrine disrupting chemicals and chronic stress during pregnancy on both birth outcomes and early neurodevelopment. Ultimately, the results will inform intervention strategies, including environmental and social policies that seek to eliminate the double jeopardy of chemical and social stressors on children's health. Role: Co-PI.

#19BB-2900 -California Breast Cancer Research Program

\$885,302, 0/1/2017-9/30/2021

The Women Worker Biomonitoring Collaborative: The goal of this project is to apply targeted and non-targeted methods to measure and compare exposures to environmental chemicals and biomarkers of early effect of relevance to breast cancer risk between women firefighters, nurses and office workers in San Francisco. Role: PI.

US EPA STAR (MPI- Cushing – Morello-Frosch)

8/01/20-7/31/23

Toxic Tides: Risks and Resilience to Coastal Flooding of Contaminated Sites

To characterize the environmental health risks associated with flooding of contaminated sites in U.S. coastal counties due to sea level rise. Role: Co-PI

R21 ES030454 NIEHS (Brody (PI)

4/01/19 – 3/31/22

Scaling up access and usability of smartphone tools for reporting chemical biomonitoring results

To scale-up access to biomonitoring results of environmental chemicals, this project will create a digital dashboard for researchers to efficiently generate personalized reports, and it will test innovative smartphone methods to improve usability of reports in low-income communities. Role: Co-PI

18RD018 California Air Resources Board
\$300,000, 1/31/2019-12/30/2021

Characterizing the Health and Equity Impacts of Oil and Gas Extraction and Production Activities in CA. To analyze the health implications of oil and gas development among a racially, ethnically, and socioeconomically diverse population in urban, suburban, and rural settings in California, through analysis of effects on birth outcomes, vulnerability of drinking water sources, and demographic distribution of super-methane emitters and their potential links to migraines using electronic health record data. Role: PI

NIH: Superfund Hazardous Substance Research and Training Program, (P42 - Martyn Smith, Director)
\$500,000, 9/1/2017-8/30/22

UC Berkeley Superfund Research Center. To apply a step-wise approach to applying exposomics to risk assessment, hazard identification, studying health impacts and the safe and effective remediation of hazardous waste sites containing multiple chemicals through community engagement and research translation. Work also includes development of the *Water Equity Science Shop* (as part of the community engagement core) a community-academic collaborative to conduct-driven research on drinking water quality among domestic well and small drinking water system users in California's San Joaquin Valley. Role: Lead, Community Engagement Core.

PENDING GRANTS

NIH: Superfund Hazardous Substance Research and Training Program, (P42)
(Martyn Smith, Director)
9/1/2022 - 8/30/27

UC Berkeley Superfund Research Center. To apply examine the combined effects of chemical mixtures in vulnerable populations from drinking water using targeted and non-targeted methods. Examine perinatal health impacts and the safe and effective remediation of multiple chemicals through community engagement and research translation. Role: Director, Community Engagement Core and PI, Project 1.

NIH: Addressing Immigrant Maternal mental health and Environmental Stressors (AIMES)
(MPI- Morello-Frosch and Aung)
4/1/2022-3/31/2027

To fill current knowledge gaps about the impact of environmental and psychosocial stressors (i.e. "stressogens") on the etiology of perinatal mood and anxiety disorders (PMADs) among and between immigrant and US born pregnant women of Latinx and Southeast Asian ancestry. Role: Co-PI

NIH: Revealing environmental chemical exposome in a diverse prenatal population and relationships to maternal and perinatal health (REVEAL)
(Woodruff, PI)
4/1/22-3/30/2027

To advance non-targeted analytical chemistry methods, technological capacity, and computational techniques that accelerate characterization of maternal exposome contributions to upstream effect biomarkers and maternal and perinatal health outcomes. Role: Co-PI

NIH: Title: Environmental pollution, Structural Racism and discrimination, and Cardiovascular Health
(Alexeef, PI)
4/1/2022 – 3/31/2027

To conduct the largest and most diverse retrospective cohort study of environmental pollutants, systemic racism and discrimination, and cardiovascular health outcomes in the PACES cohort of 3.7 million adults, comprising nearly the entire adult membership of Kaiser Permanente Northern California (KPNC). Role: Co-I.

COMPLETED RESEARCH SUPPORT

California Air Resources Board, CARB
\$387,500, 6/1/2018-5/31/ 2021

Integrating a Community Cumulative Impacts Framework in the Implementation of AB 617 and SB 673: To conduct research, community engagement and capacity-building with environmental justice stakeholders, and to inform CARB and DTSC's efforts to implement AB 617 and SB 673, respectively. Collaborators: UC Davis, Tracking California, San Francisco State University and University of Southern California. Role: PI.

1P01 ES022841-01 NIEHS/EPA (Woodruff, Director; Morello-Frosch PI, Project 3)
\$471,825, 6/15/13 – 5/31/19

The UCSF Pregnancy Exposures to Environmental Chemicals (PEEC) Children's Center: The PEEC Children's Center advances understanding of how exposure to environmental chemicals affects early development using an innovative multidisciplinary approach that integrates research on sources and exposures to environmental chemicals during pregnancy with basic biological research, and translates these scientific findings to healthcare providers, policy makers and community groups in order to improve clinical care and promote policies that prevent prenatal exposures to harmful chemicals. Role: PI on Project 3: Chemicals in Our Bodies: Effects of Prenatal Chemical Exposures and Chronic Stress on Fetal Growth Outcomes.

#11-E0020 (OEHHA)

\$389,500, 8/1/16-07/31/19

Cal-EPA, Office of Environmental Health Hazard Assessment (OEHHA)

Assessing the Equity Impacts of California's Cap and Trade Program. To analyze the GHG and co-pollutant emissions trends among facilities regulated under California's cap and trade program in order to elucidate equity implications for localized emissions within the state. Role: PI.

EPA-G2013-STAR-K1 (Tracey Woodruff, UCSF)

\$75,628 2/1/2014-1/31/2017

A Non-targeted method for measuring multiple chemical exposures among a demographically diverse population of pregnant women in Northern California. To apply quadrupole time-of-flight mass spectrometry (LC-QTOF/MS) to perform a General Suspects Screen for the presence and co-occurrence of over 700 Environmental Organic Acids (EOAs) in pregnant women. Role Co-PI.

11th Hour Foundation

\$25,000, 9/1/16– 8/30/18

Effect of Oil and Gas Extraction on Birth Outcomes in California.

To support an analysis of oil and gas activities on risk of low birth weight and preterm birth in CA. Role: PI

#15RD027, California Air Resources Board (CARB)

\$20,000, 6/1/2013-6/30/17

A pilot study to characterize the potential health and equity impacts of oil and gas extraction activities in California. Role: PI

#19BB-2900

California Breast Cancer Research Program (PI):

\$885,010, 9/1/13-08/30/17

The Women Firefighter Biomonitoring Collaborative. To measure and compare exposures between women firefighters and other female civil servants to certain chemicals with potential links to increased breast cancer risk. Role: PI

ES017514, NIH (Brody PI) MPI

\$325,617, 12/1/09-11/30/16,

Ethical and Legal Challenges in Communicating Individual Biomonitoring and Personal Exposure Results to Study Participants. To analyze experiences, values, and attitudes of participants in personal exposure assessment studies and the perspectives of IRB members, researchers, clinicians, and legal experts in order to provide guidance about exemplary practices for ethical protocols to report individual results in personal exposure research. Role: co-PI

#11-336, California Air Resources Board (CARB)

\$199,984, 6/1/12-5/31/15

Advancing the Environmental Justice Screening Method: To refine methods of environmental equity analysis by assessing spatial auto-correlation and examining the impacts of industrial, commercial and transportation land use; and develop indicators of neighborhood-scale cumulative impact, community vulnerability, and environmental inequity that can be integrated into regulatory decision-making and enforcement activities. Role: PI

#11-E0020, Cal-EPA, OEHHA

\$247,501, 6/30/12-6/30/15

A review of OEHHA's Cal EnviroScreen Tool: To collaborate with OEHHA in their development of a decision-making tool for integration of environmental hazard and social vulnerability metrics to conduct cumulative impacts screening in California. Role: PI.

Kellogg Foundation (Pastor, PI) MPI \$

30,000, 3/1/2013-2/28/2015

Links between Social Equity and Indicators of Environmental Quality: To conduct a systematic review the literature and empirical analysis examining links between social equity, environmental quality, and health. Role: Co-PI.

Hewlett Foundation MPI

\$75,000, 11/1/2013-10/30/2015

Social Equity and Vulnerability to Climate Change: To conduct research on links between segregation, income inequality and community vulnerability to climate change. Role: Co-PI.

SES -0822724

\$346,000, 9/1/08-8/30/12

National Science Foundation

Toxic Ignorance and the New Right-to-Know

To understand how the proliferation of biomonitoring data and analytical technology is driving stakeholder debates over the future of regulatory science in US and European, evidentiary standards in toxic tort cases in US courts and industrial production decisions. Collaborator: Alastair Iles (UC Berkeley). Role: PI

California Wellness Foundation (MPI)

\$250,000, 1/01/10-12/31/12

The Maternal and Infant Environmental Exposures Project (MIEEP)

To conduct a pilot study of chemical exposures of mothers and their infants, assess sources of exposures and develop transparent, scientifically valid and ethical methods of report-back of study results to individual study participants. Collaborators: Tracey Woodruff (UCSF), Michael Lipsett, (Biomonitoring California.) Role: Co-PI

Hewlett Foundation

Endangered Communities and the Climate Gap

\$55,000, 2/28/2010-3/30/2012

To conduct science – policy research to inform policy-making in California on climate change and environmental justice with a specific connection to AB32 implementation (\$55,000). Collaborators Manuel Pastor (University of Southern California), James Sadd (Occidental College). Role: Co-PI

US Environmental Protection Agency, Regional Applied Research Effort (RARE)

\$89,000, 7/1/08-6/30/10

Integrating Measures of Cumulative Impact and Community-level Vulnerability in a Study of the Association between Adverse Birth Outcomes and Traffic Density in California

To examine the relationship between adverse birth outcomes and exposure to traffic density in California. Collaborators: James Sadd, Occidental College and Manuel Pastor, University of Southern California. Role: Co-PI

California Environmental Protection Agency
Building Interdisciplinary Infrastructure to Conduct Research on Environmental Justice and Climate Change in California
\$480,000, 6/1/2008-5/31/2011
To analyze the equity impacts of climate change and AB32 implementation in California. Collaborators: Manuel Pastor (University of Southern California), James Sadd (Occidental College): Role: PI

#ES-03-007 (R25) (MPI)
\$960,000, 9/1/04-8/31/08
National Institute of Environmental Health Sciences (NIEHS)
Merging Breast Cancer and Environmental Justice
To link breast cancer and environmental justice issues through a household exposure study for endocrine disrupting chemicals linked to breast cancer. Collaborators: Bill Gallegos, Communities for a Better Environment (Co-Investigator), Julia Brody, Silent Spring Institute (Principal Investigator) and Phil Brown (co-Principal Investigator). Role: Co-PI

National Science Foundation
(MPI)
\$299,999, 3/1/05-12/31/08
The "Research Right-to-Know": Ethics and Values in Communicating Environmental Health Study Results to Individuals and Communities
To examine ethical issues in reporting personal chemical exposure results to individual study participants, and whole communities, through comparison of two study communities that differ widely on race and class composition. Collaborators: Julia Brody, Executive Director of the Silent Spring Institute and Phil Brown, Department of Sociology, Brown University. Role: co-PI.

California Air Resources Board Research Program
Air Pollution and Environmental Justice: Integrating Exposure, Demographics, and Land Use into Regulatory Decision-making and Preventive Screening
\$610,000, 9/1/2005-6/30/2010
To: 1) refine methods of environmental equity analysis by assessing spatial auto-correlation and examining the impacts of industrial, commercial and transportation land use; 2) develop indicators of neighborhood-scale cumulative impact, community vulnerability, and environmental inequity that can be integrated into regulatory decision-making and enforcement activities; and 3) Address data needs identified in the Cal/EPA EJ Advisory Committee Recommendations Report (\$750,000). Collaborators: Manuel Pastor, Latin American/Latino Studies (UC Santa Cruz) and James Sadd, Environmental Sciences and Studies (Occidental College). Role; Co-PI.

Centers for Disease Control
National Environmental Public Health Tracking Program – Network Implementation
1/1/2007-12/31/2009
Assist California's Environmental Public Health Tracking (EPHT) Network by improving the availability and utility of existing data and facilitating the creation of new data to ensure the accessibility of core and other EPHT measures; to leverage EPHT systems to inform policies, practices, and other actions to prevent or reduce illnesses, injury and death related to environmental risk factors. Collaborator (Principal

Investigator): Paul English, Senior Scientist, California Department of Health, Environmental Health Investigations Branch. Role: Consultant

National Science Foundation

Disaster, Resilience, and the Built Environment on the Gulf Coast

\$157,032, 1/1/2007-12/31/2009

To study the resilience of the ecological and built environments in coastal communities that endures chronic wind and water damage from hurricanes. This interdisciplinary project builds upon current research on the impacts of Hurricane Katrina, which has identified the places including urban neighborhoods and rural counties that were most affected and has begun to trace the socioeconomic and political process of recovery and rebuilding. Collaborators: John Logan (PI), and Co-PIs Phil Brown (Sociology), Steven Hamburg (Ecology & Evolutionary Biology), John Mustard (Geological Sciences), Scott Bell (Sociology), Brown University. Role: Co-I

National Science Foundation

Hurricane Katrina and the Built Environment:

An Eco-Social Framework for Assessing Spatial and Social Impacts

\$100,000, 12/1/2005-11/30/2006

To study the impacts of Hurricane Katrina, along with the recovery and reconstruction process as it unfolds. Project integrated remotely sensed ecological data with environmental hazard information as well as demographic and socioeconomic data to understand the social and ecological vulnerabilities of impacted communities by race, class and other SES measures. Collaborators included: John Logan (Principal Investigator), Phil Brown (Co-Investigator), Department of Sociology, Steve Hamburg (Co-Investigator) Ecology and Evolutionary Biology, John Mustard (Geological Sciences), Brown University, Role: Co-I

California Environmental Protection Agency—Office of Environmental Health Hazard Assessment

Understanding and Addressing Cumulative Impacts on California Communities

\$449,875, 12/1/2008-11/30/2009

To develop scientifically valid and publicly transparent analytical methods that identify disparities in environmental hazard exposures and health status for key population groups (by race/ethnicity, socioeconomic status, and other vulnerability indicators) to inform regulatory decision-making, enforcement, activities and policy. Collaborators: Amy Kyle (UC Berkeley—Principal Investigator) and Michael Jerrett (UC Berkeley—Co-Investigator). Role: Co-I

The California Endowment

Building a Regional Voice for Environmental Health in Southern California-- Phase II:

\$960,000, 1/1/2007-12/31/2009

To build on gains and lessons learned, leverage new opportunities, and grow the *Building a Regional Voice for Environmental Health Collaborative's* (capacity to impact health and wellness of at-risk communities of color in Southern California. This Collaborative involves an academic/community-based partnership (3 academic collaborators—UC Berkeley, UC Santa Cruz, and Occidental College-- and 5 community collaborators) combining economic and environmental health research, policy advocacy, and public education to improve environmental health in low-income communities of color in Southern California. Role: Co-PI.

Centers for Disease Control and Prevention

Centers of Excellence for Environmental Public Health Tracking, University of California, Berkeley

\$40,000, 9/1/2002-8/31/2005 and 9/1/2005-8/31/2008

To design methods that identify and assess disparities in environmental exposures and health status, including developing methods to assess patterns of emissions, exposures, and disease by key population

groupings, including race/ethnicity and socio economic status, to allow for assessment of disparate patterns. Role: Consultant

The California Endowment:

San Francisco Bay Area Environmental Health Collaborative:

\$600,000, 7/1/2004-6/30/2007

To support academic research, secondary grant-making, community organizing, advocacy, and public education with the aim of impacting public policies and improving health outcomes for environmentally at-risk communities in the San Francisco Bay Area. The project partners were: Communities for a Better Environment (CBE); the Center for Justice, Tolerance and Community at the University of California at Santa Cruz (CJTC); and The San Francisco Foundation. Role: Co-PI.

Brown University Office of Research Administration, Research Seed Grant Award

Middle East Environmental Futures: Management of the Wadi Khalil/Nahal Besor Environmental Borderscape

\$60,000, 9/1/2004-8/31/2005

To convene an interdisciplinary environmental investigation of a transboundary Israeli-Palestinian watershed. The as part of the Middle East Environmental Futures project, an interdisciplinary group of Israeli and Palestinian scholars convened by environmental and sociology researchers at Brown University's Watson Institute of International Studies. Collaborators included: Steven Hamburg (PI) (Environmental Studies, Ecology and Evolutionary Biology, and Watson Institute), Brian O'Neill (Watson Institute), Jeff Albert (Geological Sciences and Environmental Studies), and Calvin Goldscheider (Sociology and Judaic Studies) Role: Consultant

California Wellness Foundation

Children's Health and Environmental Justice

\$100,000, 10/1/2001-11/30/2004

Supported research on the distribution of toxics and associated cancer and non-cancer health risks among school children in California. Academic collaborators: Manuel Pastor (University of California, Santa Cruz) and James Sadd (Occidental College). Role: Co-PI.

Brown University Salomon Research Grant

Social Inequalities and Links to Disparities in Community Environmental Health.

\$15,000, 6/1/2003-11/30/2004.

Seed monies to conduct quantitative analysis and develop political economy frameworks for understanding the origins of environmental inequality and elucidating possible paths for intervention and policy-making to address disparities in community exposures to air pollution and their associated health risks. Role: PI (\$15,000)

The Ford Foundation

Regional Equity, Public Health and Environmental Justice: Assessing Opportunities for Research and Policy \$20,000, 7/1/2003-3/31/2004

Conduct a survey of current advocacy work and academic research initiatives that seek to integrate issues of regional economic equity, environmental health, and social justice. Issues of measurement, data collection strategies as well as policy tactics will be examined. Role: PI

The California Endowment

Building a Regional Community-Based Voice for Environmental Health and Justice, Phase I

\$975,000, 9/1/2001-3/30/2004

To support an academic/community-based partnership combining economic and environmental health research, policy advocacy, and public education to improve environmental health in low-income

communities of color in Southern California. Collaborative partners included researchers from the University of California, Santa Cruz, Occidental College, Communities for a Better Environment, and Liberty Hill Foundation Collaborators on this grant (\$975,000 of which \$270,000 was for research) were Manuel Pastor (University of California, Santa Cruz) and James Sadd (Occidental College). Role: Co-PI.

National Science Foundation Research Starter Grant

\$30,000, 5/1/2001-6/30/ 2002

To launch academic research initiative on environmental health inequalities. Role: PI

US Environmental Protection Agency, Washington, DC

Air Toxics and Children's Health

\$15,000, 9/1/2000-8/31/2001

To examine the impacts of outdoor air toxics on children's health, including chronic and acute respiratory illnesses such as asthma. Work with agency scientists includes the development of new, policy-relevant indicators to assess health outcomes and respiratory risks. Role: PI.

SERVICE

UNIVERSITY SERVICE

UC Berkeley Budget and Interdepartmental Relations (BIR) Committee, 2021-Present

UC Berkeley Faculty Leadership Academy 2020-2021

Climate Equity and Environmental Justice Faculty Cluster Initiative, co-lead and executive committee member, equity adviser 2019-Present

UC President's Postdoctoral Program, Advisory Committee Representative, 2019-Present

Graduate Student Diversity Task Force, 2019-2020

Faculty Link Program, Core Advisor, 2019-Present

Associate Vice Provost of the Faculty Search committee, 2020

Energy and Resources Group, Faculty Affiliate, 2010-Present

Environmental Health Sciences Graduate Group, Faculty Affiliate, 2008-Present

Berkeley Institute of the Environment, Search Committee, 2011-2012

American Cultures Curriculum Review Committee, Berkeley Academic Senate, 2011-2015

Library Prize Selection Committee, 2011, 2012, 2013

Ciriacy Wantrup Post-doctoral Fellowship Selection Committee, 2011-2016

Center for Latino Policy Research, Faculty Affiliate 2008-Present

Haas Diversity Research Initiative, Member of Health Diversity Cluster 2007-Present and Search Committee Member and Diversity Officer, September 2007-April 2008.

School of Public Health:

Director, Doctor of Public Health Program, 2010-2013

Management Committee, DrPH Program, May 2008-2018

Minority Opportunities Committee, Member, January 2008-Present.

Division of Community Health Science, MPH Graduate Admissions Committee, 2007-Present

Robert Wood Johnson Foundation Health & Society Scholars Program, Faculty Affiliate, July 2008-2016

Labor and Occupational Health Program, Faculty Advisory Committee, September 2009-Present

Department of Environmental Science, Policy and Management:

Diversity Equity and Inclusion Committee Member, 2015-2018; 2020-2021

Chair, Society and Environment Division, Department of Environmental Science, Policy and Management, 2014-2019

ESPM Council, 2014-2019

Equity Officer, 2012-2015

Endowed Chair Award Committee, 2011-2016

Adkins Center for Weight and Health Advisory Committee, 2015

Undergraduate Program Committee, September 2007-2015

Executive Committee, College of Natural Resources 2009-2013

Co-convener, Science Technology and Environment Working Group in Society & Environment Division

COMMUNITY SERVICE

Grist Magazine (<http://www.grist.org/>), Board of Trustees, Seattle, WA, 2008-Present

Switzer Foundation, Board of Trustees, 2019-Present

Breast Cancer Action (www.bcaction.org), San Francisco, CA

Scientific Advisory Board member, 2001-Present

Former board chair 2000-2002

Breast Cancer Fund, San Francisco, CA

Scientific Advisory Panel member, 2010-Present

Collaborative on Health and the Environment, Cumulative Impacts Working Group

Scientific Advisor, 2011-Present

Environmental Leadership Program (www.ELPnet.org), Boston, MA

Co-Founder and Board of Trustees Chair, 1999- 2005

PROFESSIONAL SERVICE & CONSULTANCIES

Editorial Review Board, *Environmental Health Perspectives*, 2009-2019

Editorial Review Board, *Environmental Health*, 2010-Present

California Department of Public Health

Richmond, California

July 1, 2008-June 30, 2010

To provide research and technical support to the California Environmental Contaminant Biomonitoring Program (CECBP) personnel in developing plans for results communication for biomonitoring participants.

Breast Cancer and Chemicals Policy Expert Panel

San Francisco, California

April 2009-September 2010

A multidisciplinary panel to evaluate the existing scientific literature on causal pathways and suspected chemicals implicated in breast cancer and to identify significant gaps in current knowledge. The panel will outline a strategy for identifying chemicals suspected in the development of breast cancer and how toxicity testing methods can be used by California to pursue more effective management of chemicals

Research Screening Committee, California Air Resources Board (CARB)

Sacramento, California

August 2003-Present

This committee of scientists reviews proposals and allocates state funds to support research on air quality and human health in the state of California.

California Breast Cancer Research Program, New Research Initiatives Strategic Planning Team

Oakland, California

September 2006-December 2008

This scientific committee will develop a new research funding initiatives for the CBCRP, which is the largest state-funded breast cancer research program in the country. Since 1994 the Program has funded over \$174 million in research grants to 89 institutions across the state.

Environmental Scorecard (www.scorecard.org)

1997-2001

Environmental Defense Fund, Oakland, CA

William Pease, Research Scientist and Project Director

To develop the Hazardous Air Pollutant and environmental health and justice data layers for *Environmental Scorecard*, a project that consolidates databases and health risk information related to environmental pollution in a way that is accessible to community-based organizations and policy-makers on the Internet.

Natural Assets Project

November, 2000-2001

Political Economy Research Institute

Department of Economics, University of Massachusetts, Amherst

Executive Director, Professor James K. Boyce

Supported by the Ford Foundation, project aims to promote critical analysis, research and cross-disciplinary discussion of the potential for natural assets building to advance the goals of poverty reduction, environmental protection, and environmental justice.

Environmental Health and Justice Project

January, 2001-May 2002

Silicon Valley Toxics Coalition, San Jose, CA

Executive Director, Ted Smith; Program Director, Jay Mendoza

Consulting on a Silicon Valley environmental justice community partnership that seeks to address the health risks and social impact of the computer industry on residents and semi-conductor workers. The National Institute of Environmental Health Sciences (NIEHS) awarded the partnership a three-year grant.

San Francisco Foundation, San Francisco, CA

December 2000-February 2001

Jane Rogers, Environmental Program Officer

December 2001-February 2002

One of four grant reviewers that determined distribution of \$400,000 in grants from the Bay Fund, to support research, restoration and pollution prevention efforts for the San Francisco Bay Estuary and its watersheds.

The California Endowment, Los Angeles, CA

March-August, 1999

Jai-Lee Wong, Program Officer

Researched and co-authored concept paper and annotated bibliography for the Board of Trustees of the Foundation to support the formation of a Multi-Cultural Health Institute.

Environmental Health Coalition, San Diego, CA

February-March, 1999

Diane Takvorian, Executive Director

Conducted risk assessments on ambient air toxics data for San Diego County. Consulted on the development of press materials and display maps to publicly release study results for a Clean Air Summit.

Department of Defense Breast Cancer Research Program, Washington, D.C.

October, 1998 & August, 1999

Member of scientific review panel that allocated federal grants in support of breast cancer research.
Reviewed research proposals in the fields of radiation oncology and molecular genetics.

Líderes Campesinas (Women Farm Worker Leadership Project), Pomona, CA, 1996-1997

Consulted on development of a certification program to train women farm workers to conduct community education on the federal worker protection standard for pesticide use.

Environmental Law Foundation, Oakland, CA

1993-95

Conducted a distributional analysis of air toxics emissions from manufacturing and non-manufacturing facilities in the San Francisco Bay Area. Co-authored a technical report.

PROFESSIONAL MEMBERSHIPS

American Public Health Association
Society for Risk Analysis
International Society for Environmental Epidemiology
American Association for the Advancement of Science

REFEREE (PARTIAL LIST)

American Journal of Public Health
Antipode
Applied Environmental Science and Public Health
Atmospheric Environment
Bulletin of the World Health Organization
Climatic Change
Environmental Health Perspectives
Environmental Health
Environmental Research
Environment and Planning A
Environment and Planning C
Environmental Science and Technology
International Journal of Toxicology
Lancet
MIT Planning Journal (Special Editorial Board)
Nature Climate Change
Jossey-Bass
Journal of the Air and Waste Management Association
Journal of Exposure Assessment and Epidemiology
Journal of Epidemiology and Community Health
Journal of Urban Affairs
Minnesota Press
PNAS
Social Problems
Social Science Quarterly
Temple University Press
UC Press
University of Arizona Press

University of Chicago Press
Urban Affairs Review

AD HOC REVIEWER

National Institute of Environmental Health Sciences
National Institute of Minority Health and Health Disparities
National Science Foundation

FELLOWSHIPS, HONORS AND AWARDS

White House Environmental Justice Advisory Council, 2021-Present

National Academies Committee on Anticipatory Research for EPA's Research and Development
Enterprise to Inform Future Environmental Protection, 2021-2022

Rachel Carson Award, Silent Spring Institute, 2020

Chancellor's Award for Advancing Institutional Excellence and Equity, University of California,
Berkeley, 2018

Committee on Teaching Excellence Award, University of California, Berkeley School of Public Health,
Spring 2015 and 2017

Chancellor's Award for Research in Public Service, University of California, Berkeley, 2012

Damu Smith Environmental Health Achievement Award, Environment Section, American Public Health
Association, 2010.

William G. McLoughlin Award for Teaching Excellence in the Social Sciences, Brown University, 2006

Richard and Nancy Carney Endowed Chair, Brown University, 2004

Salomon Research Grant, Brown University Office of Research Administration, 2003-2004

National Science Foundation Research Starter Grant, 2001-2002

Professional Research and Development Award, San Francisco State University, 2001

US EPA's Science and Technology Achievement (STAR) Award for the Cumulative Exposure Project.
(with Tracey Woodruff, Daniel Axelrad, Jane Caldwell & Arlene Rosenbaum) Nominees chosen by the
US EPA's Science Advisory Board for scientific publications of high scientific quality that provide an
important contribution to the policy process), 2001

National Science Foundation Post-doctoral Fellowship, 1999-2000

California Public Health Association – Award for Outstanding Student Contribution to Community-
based Research, 1999

University of California President's Post-doctoral Fellowship, 1998-1999

Switzer Environmental Leadership Award, The San Francisco Foundation, 1997

Phi Beta Kappa Fellowship, 1997

Russell M. Grossman Endowment Award, University of California, Berkeley School of Public Health,
1996-97

Toxic Substances Research and Teaching Program Fellowship,

University of California, 1995-97

Switzer Environmental Fellowship, The San Francisco Foundation, 1995-96

Outstanding Graduate Student Instructor Award, 1995

Mentored Research Fellowship, UC Berkeley, 1994-95

Graduate Opportunity Program Fellowship, UC Berkeley, 1993-94

Public Health Traineeship Award, UC Berkeley, 1992-93

TEACHING

UC Berkeley

ESPM 197/PH 160: *Environmental Health and Development*

Upper Division Undergraduate Course examines the health impacts of environmental alterations resulting from development efforts and other human activities in developing and developed countries and regions. The class employs methodological development and case studies to understand and interpret scientific information and to incorporate a global perspective on environmentally mediated diseases in diverse populations. Case studies explore the health implications of water management and treatment; population change; toxics and industrial disasters; energy resource development; indoor and outdoor air pollution; climate change; industrial agriculture and chemical/pesticide use; the global food chain and environmental inequality. Enrollment: ~190-220 students

PH 202B/ESPM 290: *Ethnicity, Race, and Culture in Health Status*

Graduate seminar examines ethnic and cultural differences in health status and behavior among historically marginalized communities in the United States, including African-Americans, Latinos, Asian-Americans, Native Americans as well as sexual minorities and groups from non-Western societies. Materials and lectures draw from the epidemiological, anthropological, and demographic literature as well as relevant social theory (e.g. social class, acculturation, race theory and class theory) to understand the influence of ethnicity, socio-cultural, and class background on concepts of health, illness, and health seeking behaviors among diverse communities. The implications of cultural diversity for public health policy and intervention programs are also explored. Enrollment: ~15-25 students

ESPM 198: *Senior Capstone Seminar in Society and Environment Major*, Department of Environmental Science, Policy and Management

Course goal is for students to formulate and pursue a research question associated with their concentration area in the Society and Environment major and prepare an oral presentation of their work at the end of the semester. Enrollment: ~25-35 students

ESPM 194: *Capstone Seminar in Conservation and Resource Studies*, College of Natural Resources

Course goals for students included: 1) prepare a research seminar and a paper on a topic directly related to their "Area of Interest" (AOI); 2) contribute information, critiques and opinions in seminars and discussions led by other members of the class; 3) strengthen library and internet research skills for work on environmental topics pursued in their future careers; 5) strengthen capacity to communicate complex scientific ideas and environmental perspectives to a broader public through a media outlet. Enrollment: ~20-25 students.

Brown University:

ES 172: *Environmental Justice: The Science and Political Economy of Environmental Health and Social Justice* (Center for Environmental Studies, Department of Community Health, School of Medicine, and the Center for the Study of Race and Ethnicity in America, Brown University)

This course seeks to engage students to develop theoretical and quantitative approaches for understanding the origins and persistence of environmental discrimination. The course examines the regulatory, institutional, structural, political, and economic forces that underlie patterns of race and class-based

discrimination and their implications for human health impacts among diverse communities. Students explore competing theoretical, historical, and legal frameworks for understanding the intersection of race/racism and class formation in the United States and their relationship to current patterns of environmental discrimination. Empirical evidence is then examined regarding: distributions of environmental quality and health; access to resources to influence and resist siting decisions and industrial development; and the broader political-economy of decision-making regarding environmental and health issues. Subject areas include: siting of locally unwanted land uses; disparate impact of environmental hazards on human health among the poor and people of color; conflicts in urban planning and regional development; workplace health and safety; and concepts of international environmental justice in the context of global warming debates and the international trade of wastes.

ES-171 *Environmental Health and Policy* (Center for Environmental Studies and Department of Community Health, School of Medicine, Brown University) This course examines the scientific and public policy conflicts for addressing environmental factors impacting human health. Students develop a basic knowledge of the methods of risk assessment and communication needed in interdisciplinary contexts to address environmental problems. The first part of the course covers environmental hazard identification; exposure assessment and fate and transport of environmental toxics; risk assessment, management and communication; and principles of data interpretation and application to environmental policy-making. Problem sets and a midterm examination help students practice and develop their skills in specific qualitative and quantitative risk assessment methods for cancer and non-cancer risk assessment, and concepts of exposure assessment and hazard identification. The second part of the course covers science-policy issues and case studies in order to present methodological information in the context of specific problems in the environmental policy-making arena. Issues related to the role of science in environmental policy-making, regulatory enforcement activities and community organizing will be elucidated by examining various issue areas, including: air and water pollution, environmental justice, the precautionary principle, and market-based regulation.

San Francisco State University

HED-825 *Epidemiological Methods* (College of Health and Human Services, San Francisco State University)

Graduate-level survey course of epidemiological principles and methods for master's of public health and nursing students. Includes a history and overview of the field, using contemporary case studies and an examination of the methods used to study disease distributions in diverse human populations. Curriculum emphasizes theories of disease causation, concepts of risk, transmission, and prevention. Quantitative approaches to study design and data analysis are also covered. I also taught a modified version of this course for undergraduate students.

HED-855 *Environmental Health* (College of Health and Human Services, San Francisco State University)

Graduate-level course gives students with a comprehensive understanding of the environmental factors impacting human and ecological health, including the consequences of natural and anthropogenic hazards. The relative contributions of individual consumer choices, (e.g., household recycling) and government policies, (e.g., enforcement of Superfund legislation) to local, national and global environmental health, are explored. A common thread running through the course will be the incorporation of a global perspective on burden of disease with environmental justice principles.

UC Berkeley (Graduate School and Post-doctoral Fellowship)

PH-220C *Risk Assessment, Policy, and Toxics Regulation* (School of Public Health, UC Berkeley, team taught with Professors James Robinson and William Pease)

Graduate-level course introduces basic scientific components of environmental and occupational risk assessment and the policy context in which decisions to manage environmental health risks are made. Course provides broad overview of environmental and occupational health laws.

PH –202 *Ethnic and Cultural Diversity in Health Status and Behavior* (School of Public Health, University of California, Berkeley) Graduate course examines relevant sociological and anthropological theories on the influence of ethnic, cultural, and class backgrounds on concepts of health, illness, and health seeking behavior among US minority communities.

DOCTORAL, MASTER, AND UNDERGRADUATE ADVISING – UNIVERSITY OF CALIFORNIA, BERKELEY

Doctoral (Ph.D. and DrPH): [* denotes dissertation chair]

Completed:

*Chryl Corbin, Dissertation Chair

Department of Environmental Science, Policy and Management, 2015-2020

NSF Dissertation Fellowship Recipient

Assistant Professor, Department of Urban Planning, Portland State University

*Jessica Trowbridge, Dissertation Chair

Division of Environmental Health Sciences, School of Public Health 2015-2020

TRT Fellowship Recipient

Switzer Environmental Fellow

Postdoctoral Fellow, UCSF, Program on Reproductive Health and the Environment

*Kathy V. Tran, Dissertation Chair

Division of Environmental Health Sciences, School of Public Health, 2014-2020

Member on EPA's youth climate change advisory committee

NSF SAGE Fellowship Recipient

Research Scientist, Amgen

*Freyja Knapp, Dissertation Chair

Department of Environmental Science, Policy and Management, 2008-2020

EPA STAR Fellowship Recipient

Research Scientist, US EPA, Region 9

Jessica Aun, Orals Exam Chair and Dissertation Committee Inside Member

Division of Environmental Health Sciences, School of Public Health 2016-2020

Candace Vahlsing, Orals Exam Chair and Dissertation Committee Inside Member

Division of Environmental Health Sciences, School of Public Health, 2016-2020

Associate Director for Climate, Energy, Environment, and Science, White House Office of Management and Budget

Melina Packer, Orals Committee Inside Member and Dissertation Committee Inside member

Department of Environmental Science, Policy and Management, 2014-2020

UC President's Postdoctoral Fellow, UC Irvine

Akos Kokai, Orals Committee member and Dissertation Committee inside Member

Department of Environmental Science, Policy and Management, 2015-2020

Environmental and Data Analytics Engineer, Apple

Yang Ju, Orals Committee outside member and dissertation committee outside member

Department of Landscape Architecture and Planning, 2015-2020

Postdoctoral Fellow Department of Landscape Architecture and Planning and Department of Environmental Science, Policy and Management, University of California Berkeley

Rosemarie de la Rosa, Orals committee member and dissertation committee inside member

School of Public Health, Environmental Health Sciences Division, 2015-2019

UC President's Postdoctoral Fellow, Department of Medicine, UCSF

Assistant Professor, UC Berkeley School of Public Health, Environmental Health Sciences Division

*Jessica Goddard, Orals Committee member and Dissertation Co-Chair

- Energy and Resources Group, 2017-2019
Chief Science Officer, SimpleWater
- Regan Patterson, Orals committee member and outside dissertation committee member
Department of Civil and Environmental Engineering, 2014-2019
Postdoctoral Fellow, School of Public Health, University of Michigan
Assistant Professor, Department of Civil and Environmental Engineering, University of California, Los Angeles
- Diane Garcia Gonzales, Oral Exam Chair and Dissertation committee inside member
Division of Environmental Health Sciences, School of Public Health, 2015-2019
Postdoctoral Fellow, UCLA
- *Julia Varshavsky, Dissertation Chair
Division of Environmental Health Sciences, School of Public Health, 2011-2017
EPA STAR Fellowship Recipient
NSF SAGE Fellowship Recipient
Post-doctoral Fellow, UCSF Program on Reproductive Health and the Environment
Research Scientist, Cal-EPA Office of Environmental Health Hazard Assessment
Assistant Professor, Departments of Civil and Environmental Engineering and Health Sciences, Northeastern University
- *Carolina Prado, Dissertation Co-Chair, Orals exam committee member.
Department of Environmental Science, Policy and Management, 2013- 2017
NSF Dissertation Fellowship Recipient
Ford Foundation Doctoral Fellowship Recipient
Switzer Environmental Fellowship Recipient
Switzer Environmental Leadership Post-doctoral Fellow
Assistant Professor, San Jose State University, Department of Environmental Studies
- Miriam Solis, Dissertation committee outside member
Department of City and Regional Planning, 2017-2018
Assistant Professor of Planning and Architecture, University of Texas, Austin.
- Jane Flegal, Dissertation Committee inside member
Department of Environmental Science, Policy and Management, 2016-2018
Senior Director for Industrial Emissions, White House Office of Domestic Climate Policy
- *Guillermo Jaimes, Dissertation Chair
Department of Environmental Science, Policy and Management, 2011-2017
Chancellor's Opportunity Fellowship
Fogarty Post-doctoral Fellow
Assistant Professor, Pomona College
- Michael Harvey, Orals Committee Chair and Dissertation committee inside member
Doctor of Public Health Program, UC Berkeley School of Public Health, 2015-2017
Assistant Professor of Health Education, San Jose State University
- Heather Arata, Outside Dissertation Committee Member
Department of City and Regional Planning, 2015-2016
Community Health Planner, San Mateo County Department of Public Health
- Melody Tulier, Orals Exam Chair, 2016
Doctor of Public Health Program, School of Public Health
Postdoctoral fellow, Center for Interdisciplinary Research on AIDS, Yale University
- *Lara Cushing, Dissertation Chair and orals exam committee member
Energy and Resources Group, 2011-2015
EPA STAR Fellowship Recipient
Switzer Environmental Fellowship Recipient
Former Assistant Professor, San Francisco State University, Department of Health Education

- Assistant Professor, Department of Environmental Health Science, Fielding School of Public Health,
University of California, Los Angeles
- *Solange Gould, Dissertation Chair and orals exam committee member
Doctor of Public Health Program, School of Public Health, 2011-2015
Co-Director, Human Impact Partners
- *Ryan Pettaway, Dissertation Chair and orals exam committee member
Doctor of Public Health Program, School of Public Health, 2011-2015
Graduate Student Mentorship Fellow
Kaiser Permanente Community Scholars Fellow
Lindheim Award Recipient
Assistant Professor, Portland State University, School of Public Health
- Kendra Klein, Dissertation Committee Member, Orals exam committee member
Department of Environmental Science, Policy and Management, 2008-2014
Senior Scientist, Friends of the Earth
- David Holstius, Dissertation Committee member, Orals exam committee chair
EPA STAR Fellowship Recipient (Declined)
Environmental Health Sciences, School of Public Health, 2011-2014
Research Scientist, Bay Area Air Quality Management District
- *Ellen Kersten, Dissertation Chair
EPA STAR Fellowship Recipient
Department of Environmental Science, Policy, and Management, 2009-2014
Research Scientist, University of Washington
- *Miriam Zuk, Dissertation Co-chair, Orals exam committee member
Department of City and Regional Planning, 2009-2013
Senior Fellow, University of California, Berkeley, Department of City and Regional Planning.
- *David Tuller, Dissertation Chair and oral exam committee member
Doctor of Public Health Program, School of Public Health, 2009-2013
Currently Director of the Joint MPH/Masters of Journalism Program, UC Berkeley & Freelance
Science Reporter for *New York Times* and other outlets
- *Seth Shonkoff, Dissertation Chair
Department of Environmental Science, Policy and Management, 2007- 2012
Executive Director, Physicians, Scientists and Engineers for Healthy Energy
- *Bhavna Shamasunder, Dissertation Chair
Department of Environmental Science, Policy and Management, 2007-2011
National Science Foundation Graduate Fellowship Recipient
Associate Professor, Urban Environmental Studies Program, Occidental College
- *Carolina Balazs, Dissertation Co-Chair
Switzer Environmental Fellowship Recipient
EPA STAR Fellowship Recipient
Energy and Resources Group, 2007- 2011
President's Post-doctoral Fellow, University of California, Davis
Research Scientist, Cal-EPA Office of Environmental Health Hazard Assessment
- Analilia Garcia, Orals Committee Chair
Doctor of Public Health Program, School of Public Health, 2009-2011
Lecturer, San Jose State University
Planning Manager, Santa Clara Department of Public Health
- Maggie Ghaddis Wanis, Dissertation Committee Member, and Orals Committee Chair
Doctor of Public Health Program, School of Public Health, 2008-2010
Branch Chief, Office of Policy, US Department of Health and Human Services

Current:

- *Julie Gorecki, Dissertation co-Chair
Department of Environmental Science, Policy and Management, 2015-Present
- *Katherine Wolf, Dissertation Advisor
Department of Environmental Science, Policy and Management, 2018-Present
Berkeleyan Fellow, UC Berkeley Data Science Fellow
- Ataya Cesspooch, Orals exam committee chair and dissertation committee member, 2021-Present
Department of Environmental Science, Policy and Management
NSF Dissertation Fellow
- Brenda Matias, Orals committee member and dissertation committee outside member, 2021-Present
School of Social Welfare
- Arfa Aijazi, Orals committee member, 2021
Department of Architecture
- Cristina Gomez-Vidal, Orals committee member, dissertation committee outside member
School of Social Welfare, 2019-Present
- Noriko Kusumi, Orals Exam Chair, 2016
Department of Environmental Science, Policy and Management
- Frances Roberts Gregory, Orals Exam Chair, 2017
Department of Environmental Science, Policy and Management

Post-doctoral Mentoring:

- David González, University of California, Berkeley, School of Public Health and Department of Environmental Science, Policy and Management, 2021-present
- Clare Pace, University of California Berkeley, 2018-Present
- Dana Goin, UCSF Program on Reproductive Health and the Environment 2019-Present (NIH K99/R00 mentor)
- Dimitri Abrahamsson, UCSF Program on Reproductive Health and the Environment, 2019-2021 (NIH K99/R00 mentor)
- Stephanie Eick, UCSF Program on Reproductive Health and the Environment, 2019-2021
Assistant Professor, Department of Epidemiology, Emory University
- Joan Casey, Robert Wood Johnson Health and Society Program, UCSF and UC Berkeley, 2014-2016; 2016-2019 (NIH K99/R00 mentor)
Assistant Professor, Columbia University, Mailman School of Public Health, Department of Environmental Health Sciences
- Monika Izano, UCSF, Program on Reproductive Health and the Environment, 2017-2019
Research Scientist, Kaiser Research Foundation.
- William Jesdale, School of Public Health and Department of Environmental Science, Policy and Management, UC Berkeley, 2008-2011.
Research Professor, University of Massachusetts, Worcester Medical School.
- Ami R. Zota, Program on Reproductive Health and the Environment, University of California, San Francisco, 2009-2013. (NIH K99/R00 mentor)
Associate Professor of Environmental and Occupational Health at George Washington University School of Public Health
- Carolina Balazs, President's Post-doctoral Fellow, UC Davis, 2012-2014,
Research Scientist, California Environmental Protection Agency, Office of Environmental Health Hazard Assessment

Undergraduate and Master Thesis Advising:

MS, MA, MPH

- Ella Belfer, Master Thesis committee co-chair, Energy and Resources Group, 2019-2020
- Jenny Rempel, Master Thesis committee co-chair, Energy and Resources Group, 2019-2020

Anthony Nardone, Master's Thesis committee inside member,
UC Berkeley/UCSF Joint Medical Program, School of Public Health, 2018-2020
Axel Adams, Master Thesis committee inside member
UC Berkeley/UCSF Joint Medical Program, School of Public Health, 2016-18
Clair Quiner, Master of Public Health Thesis chair, 2014-2015
Epidemiology and Biostatistics Program, UC Berkeley School of Public Health
Julia Varshavsky, MPH Advisor, 2011-2012
Division of Environmental Health Sciences, School of Public Health
Naomi Beyler, MPH/MCP Thesis Advisor, 2009-2011
Division of Community Health and Human Development, School of Public Health and Department of
City and Regional Planning
Dan Meltzer, MPH Thesis Advisor, 2013-2014
Division of Community Health and Human Development, School of Public Health

Undergraduate Thesis

Savannah Sturla, McNair Scholars Thesis Advisor, 2020-2021
Department of Environmental Science, Policy and Management, Environmental Sciences
Currently PhD student in Environmental Health Sciences, University of Michigan
Clare Krum, Senior Honors Thesis advisor, 2019-2020
Department of Environmental Science, Policy and Management, Environmental Sciences
Evan Yoshimoto, McNair Scholars Thesis Advisor, 2017-2018
Department of Environmental Science, Policy and Management
Society and Environment Division
Samuel Harry Terrell, Senior Honors Thesis Advisor, 2015-2016
Department of Environmental Science, Policy, and Management, Society and Environment Division,
Minkah Eshe Smith, McNair Scholars Thesis Advisor, 2016-2017
Department of Environmental Science, Policy and Management
Society and Environment Division
Chika Kondo, Senior Honors Thesis Advisor, 2012-13
Department of Environmental Science, Policy and Management
Society and Environment Division
Claire Evans, Senior Honors Thesis Advisor, 2010-2011
Department of Environmental Science, Policy and Management,
Society and Environment Division
Nora Traugher, Senior Honors Thesis Advisor 2010-2011
Department of Environmental Science, Policy and Management, Society and Environment Division,
Drew Leher, Senior Thesis Advisor, 2010-2011
Department of Environmental Science, Policy and Management, Society and Environment Division,
Kirsten Matsumoto, Senior Honors Thesis Advisor, 2008-2009
Department of Environmental Science, Policy, and Management, Society and Environment Division,
Michael Young, Senior Thesis Advisor, 2012-2013
Department of Environmental Science, Policy, and Management, Environmental Sciences

DOCTORAL, MASTER AND UNDERGRADUATE ADVISING – BROWN UNIVERSITY

Doctoral:

Sabrina McCormick, Dissertation Committee Member
Department of Sociology, 2002 –2005
Recipient of the Joukowsky Award for the Best Dissertation in the Social Sciences, Brown
University

AAAS Fellow, US Environmental Protection Agency; Robert Wood Johnson Health Policy Scholar;
Associate Professor, George Washington University, School of Public Health
Brian Mayer, Dissertation Committee Member
Department of Sociology, 2002- 2006
Recipient of the Joukowsky Award for the Best Dissertation in the Social Sciences, Brown University
Professor, University of Arizona, Department of Sociology
Rebecca Gasior Altman, Dissertation Committee Member
Department of Sociology, 2004-2008
Adjunct Professor, Tufts University
Laura Senier, Dissertation Committee Member
Department of Sociology, 2005-2009
Associate Professor Northeastern University, Department of Sociology
William Jesdale, Dissertation Committee Chair
Department of Community Health, School of Medicine, 2003-2006
Research Associate Professor, University of Massachusetts Worcester, MA

MA, MPH, MS:

Christopher Moody, Masters Honors Thesis Reader,
Center for Environmental Studies, 2003
William Space, Masters Thesis Advisor
Center for Environmental Studies, 2003-2004
Nicholas Bianco, Masters Thesis Advisor
Center for Environmental Studies, 2003-2005
Caroline Colesworthy, Masters Thesis Advisor
Center for Environmental Studies, 2004- 2005
Allan Just, Senior Honors Thesis Advisor
Center for Environmental Studies, 2003-2005
Lindsey Ryckman, Masters Thesis Advisor
Center for Environmental Studies, 2005-2006
Angela Hackel, Masters Thesis Reader
Center for Environmental Studies, 2005-2006
Halima Ahmadi, Master of Public Health Thesis Reader
Department of Community Health, 2006-2007
Alison Cohen, Senior Honors Thesis Advisor
Department of Community Health, 2006-2007
William Kern, Masters Thesis Reader
Center for Environmental Studies, 2005-2006
Marc Manseau, Masters of Public Health Honors Thesis Advisor,
Department of Community Health, School of Medicine, 2003-2005

Undergraduate:

Anna Greene, Senior Honors Thesis Advisor
Center for Environmental Studies, 2002- 2004
Rachael Moeller and Amanda Aretz, Masters Honors Thesis, Reader
Center for Environmental Studies, 2002
Christina Mair, Senior Honors Thesis Advisor,
Center for Environmental Studies, 2002-2003
Marian Tsongas, Senior Thesis Advisor
Center for Environmental Studies, 2004-2006

Noura Alturki, Senior Thesis Reader
Center for Environmental Studies, 2004-2005

Anna Fedman, Senior Thesis Reader
Department of Religious Studies, 2004-2005
Recipient of the McVikar Honor Thesis Prize in Religious Studies, Brown University

Seth Federspeil, Senior Thesis Advisor
Center for Environmental Studies, 2006-2007

Margaret Frye, Senior Honors Thesis Reader
Center for Environmental Studies, 2005- 2006

Stephanie Chu, Senior Thesis Advisor
Center for Environmental Studies, 2005-2006

Marissa Molinar, Senior Thesis Advisor
Center for Environmental Studies, 2006-2007

Adam Akullian, Senior Honors Thesis Reader
Center for Environmental Studies, 2006-2007

External Dissertation and Master Thesis Committees:

Alfonso Aranda, Department of Human Ecology, University of California, Davis, Dissertation Qualifying Exam Committee member, 2019

Russell Lopez, Boston University, School of Public Health, Dissertation Committee Member
Department of Environmental Health Sciences, 2003
Research Professor, Boston University, School of Public Health, Division of Environmental Health Sciences

Rana Charafeddine, Boston University, School of Public Health, Dissertation Committee Member
Department of Environmental Health Sciences, Fall 2005

M. Catherine Trimbur, Columbia University School of Public Health, 2006-2007, Masters Thesis Reader