

# Joshua S. Graff Zivin

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## ACADEMIC POSITIONS

- Professor, School of Global Policy & Strategy (formerly School of International Relations and Pacific Studies), UCSD, 2012 – present
- Professor, Department of Economics, UCSD, 2012 – present
- Associate Professor (tenured), School of International Relations and Pacific Studies, UCSD, 2008 – present
- Associate Dean for Faculty, School of Global Policy & Strategy, UCSD, 2016 – 2018
- Associate Professor (tenured) and Director of Sustainable Development PhD Program, Columbia University, School of International and Public Affairs, 2007 - 2008
- Associate Professor (tenured), Columbia University, Department of Health Policy and Management 2006 – 2008
- Assistant Professor, Columbia University, Department of Health Policy and Management 1998 – 2006

## PROFESSIONAL APPOINTMENTS

- Chief Economist, Rockefeller Foundation Economic Council of Planetary Health, 2017 – present.
- Associate Director, Global Health Initiative, UC San Diego, 2009 – present.
- Research Director for Health and Environment, UC Institute on Global Conflict and Cooperation, 2008 – present
- Research Associate, Health Economics, Health Care, Environmental Economics, and Productivity, Innovation and Entrepreneurship, National Bureau of Economic Research (NBER), 2008 – present.
- Faculty Research Fellow, Health Economics, Health Care, and Environmental Economics, National Bureau of Economic Research (NBER), 2003 – 2008
- Senior Economist, The President's Council of Economic Advisers, Executive Office of the President, Washington, D.C., 2004 – 2005
- Director, The Columbia-Stanford Consortium on Pharmaceutical Innovation, 2002 – 2005
- Senior Research Fellow, Columbia University, International Center for Health Outcomes and Innovation Research, 1998 – 2008

## EDUCATION

- University of California at Berkeley, Ph.D., Agricultural & Resource Economics, 1998
- University of California at Berkeley, M.S., Agricultural & Resource Economics, 1994.
- Rutgers College, Rutgers University, B.A., Economics and Psychology, 1993.

## AWARDS, HONORS, AND FELLOWSHIPS

- Faculty Graduate Teaching Award, Department of Economics, UCSD, 2015-2016
- American Society of Health-System Pharmacists Foundation Research Award, 2011
- Interdisciplinary Collaboratories Fellowship, UC San Diego, 2010.
- Calderone Junior Faculty Research Prize, Columbia University, 2003
- Outstanding Journal Article: American Journal of Agricultural Economics, 2000
- Outstanding Graduate Student Instructor Award, University of California, 1998
- Edward Bloustein Distinguished Scholar, Rutgers University, 1991, 1992, 1993

## PROFESSIONAL ACTIVITIES

- Associate Editor, Review of Economics and Statistics, 2013 – present
- Member, International Water Resource Economics Consortium, 2010 – present
- Member, Center for Evaluation and Global Action, UC Berkeley, 2009 – present
- Member, Board of Directors, UC-wide Global Health Initiative 2010 – 2016
- Program Committee Member, Association of Environmental & Resource Economists, 2011-2014
- Editorial Board, Journal of Economic Literature, 2010 – 2013
- Member, National Academies' National Research Council Committee on Health Impact Assessment, 2010 – 2012
- Program Committee Member, National Tax Association Annual Meeting, 2009.
- Member, Steering Committee for NSF Expert Roundtable on Critical Research Priorities in Sustainable Development, 2007 – 2009.

## JOURNAL ARTICLES – ECONOMICS (AND RELATED SOCIAL SCIENCE)

1. Azoulay, P, C Fons-Rosen, and J Graff Zivin, “Does Science Advance One Funeral at a Time?” *American Economic Review*, forthcoming.
2. Azoulay, P, J Graff Zivin, D Li, and B Sampat, “Public R&D Investments and Private Sector Patenting: Evidence from NIH Funding,” *Review of Economic Studies*, 86(2019): 117–152.
3. Chang, T, J Graff Zivin T Gross, and M Neidell, “The Effect of Pollution on Worker Productivity: Evidence from Call-Center Workers in China,” *American Economic Journal: Applied Economics*, 11(2019): 151-172.
4. Graff Zivin, J, S Hsiang, and M Neidell, “Temperature and Human Capital in the Short- and Long-Run,” *Journal of the Association of Environmental and Resource Economists*, 5(2018): 77–105.
5. Bharadwaj, P, M Gibson, J Graff Zivin, and C Neilson “Gray Matters: Fetal Pollution Exposure and Human Capital Formation,” *Journal of the Association of Environmental and Resource Economists*, 4(2017): 505-542.

6. Azoulay, P, I Ganguli, and J Graff Zivin, "The Mobility of Elite Life Scientists: Professional and Personal Determinants," *Research Policy*, 46(2017): 573–590.
7. Chang T, J Graff Zivin, T Gross, and M Neidell, "Particulate Pollution and the Productivity of Pear Packers," *American Economic Journal: Economic Policy*, 8(2016): 141–169.
8. Graff Zivin, J, M Damon, and H Thirumurthy "Health Shocks and Natural Resource Management: Evidence from Western Kenya." *Journal of Environmental Economics and Management*, 69(2015): 36-52.
9. Gilbert, B and J Graff Zivin, "Dynamic Salience with Intermittent Billing: Evidence from Smart Electricity Meters." *Journal of Economic Behavior and Organization*, 107(2014): 176-190.
10. Graff Zivin, J, M Kotchen, and E Mansur, "Temporal and Spatial Heterogeneity of Marginal Emissions: Implications for Electric Cars and Other Electricity-Shifting Policies." *Journal of Economic Behavior and Organization*, 107(2014): 248-268.
11. Currie, J, J Graff Zivin, J Mullins, and M Neidell, "What Do We Know About Short- and Long-Term Effects of Early Life Exposure to Pollution?" *Annual Review of Resource Economics*, 6(2014): 217-247.
12. Graff Zivin, J and M Neidell, "Temperature and the Allocation of Time: Implications for Climate Change," *Journal of Labor Economics*, 32(2014): 1-26.
13. Graff Zivin, J and M Neidell, "Environment, Health, and Human Capital" *Journal of Economic Literature*, 51(2013): 689-730.
14. Currie, Janet Joshua Graff Zivin, Katherine Meckel, Matthew Neidell and Wolfram Schlenker, "Something in the Water: Contaminated Drinking Water and Infant Health," *Canadian Journal of Economics*, 46(2013): 791-810.
15. Goldstein, M, J Graff Zivin, J Habyarimana, C Pop-Eleches, and H Thirumurthy, "The Effect of Absenteeism and Clinic Protocol on Health Outcomes: The Case of Mother-to-Child Transmission of HIV in Kenya" *American Economic Journal: Applied Economics*, 5(2013): 58–85.
16. Graff Zivin, J and M Neidell, "The Impact of Pollution on Worker Productivity" *American Economic Review*, 102(2012): 3652–3673.
17. Thirumurthy, H and J Graff Zivin "Health and Labor Supply in the Context of HIV/AIDS: The Long-Run Economic Impacts on Antiretroviral Therapy" *Economic Development and Cultural Change*, 61(2012): 73-96.
18. Dastrup, S, J Graff Zivin, D Costa, and M Kahn, "Understanding the Solar Home Price Premium: Electricity Generation and 'Green' Social Status." *European Economic Review*, 56(2012): 961-973.

19. Graff Zivin, J and M Damon “Environmental Policy and Political Realities: Fisheries Management & Job Creation in the Pacific Islands” *Journal of Environment and Development*, 21(2012): 198 - 218.
20. Thirumurthy, H, C Pop-Eleches, J Habyarimana, M Goldstein, and J Graff Zivin “Behavioral Responses of Patients in AIDS Treatment Programs: Sexual Behavior in Kenya” *Forum for Health Economics and Policy*, 15(2012): 1-29.
21. Azoulay, P, J Graff Zivin, and G Manso, “Incentives and Creativity: Evidence from the Howard Hughes Medical Investigator Program” *The RAND Journal of Economics*, 42(2011): 527-554.
22. Graff Zivin, J, M Neidell, and W Schlenker, "Water Quality Violations and Avoidance Behavior: Evidence from Bottled Water Consumption" *American Economic Review Papers and Proceedings*, 101(2011): 448-453.
23. Azoulay, P, J Graff Zivin, J Wang “Superstar Extinction,” *Quarterly Journal of Economics*, 25(2010): 549-589.
24. Graff Zivin, J and M Neidell, “Medical Technology Adoption, Uncertainty, and Irreversibilities: Is a Bird in the Hand Really Worth More than the Bush?” *Health Economics*, 19(2010): 142-153.
25. Graff Zivin, J and M Neidell, “Days of Haze: Environmental Information Disclosure and Intertemporal Avoidance Behavior,” *Journal of Environmental Economics and Management*, 58(2009): 119-128.
26. Graff Zivin, J, H Thirumurthy, and M Goldstein, “AIDS Treatment and Intrahousehold Resource Allocation: Children’s Nutrition and Schooling in Kenya,” *Journal of Public Economics*, 93(2009): 1008-1015.
27. d’Adda, G, M Goldstein, J Graff Zivin, M Nangami, and H Thirumurthy, “ARV Treatment and Time Allocation to Household Tasks: Evidence from Kenya,” *African Development Review*, 21(2009): 180-208.
28. Graff Zivin J and L Lipper, “Poverty, Risk, and the Adoption of Soil Carbon Sequestration,” *Environment and Development Economics*, 13(2008): 353-373.
29. Thirumurthy H, J Graff Zivin and M Goldstein, “The Economic Impact of AIDS Treatment: Labor Supply in Western Kenya,” *Journal of Human Resources*, 43(2008): 511-552.
30. Sage, W, J Graff Zivin, and N Chase, “Bridging the Relational-Regulatory Gap: A Pragmatic Information Policy for Patient Safety and Medical Malpractice,” *Vanderbilt Law Review*, 59(2006): 1263-1308.

31. Graff Zivin, J, R Just, and D Zilberman, "Risk Aversion, Liability Rules, and Safety," *International Review of Law and Economics*, 4(2006): 604-623.
32. Azoulay, P, A Stellman and J Graff Zivin, "PublicationHarvester: An Open-Source Software Tool for Science Policy Research," *Research Policy*, 35(2006): 970-974.
33. Graff Zivin J, "Ensuring a Safe Food Supply: The Importance of Heterogeneity," *Journal of Agricultural and Food Industrial Organization*, 4(2006).
34. Graff Zivin J and A Small, "A Modigliani-Miller Theory of Altruistic Corporate Social Responsibility," *Topics in Economic Analysis and Policy* 5(2005).
35. Leonard, K and J Graff Zivin, "Outcome versus Service Based Payments in Health Care: Lessons from African Traditional Healers," *Health Economics*, 14(2005): 575-593.
36. Graff Zivin, J and A Pfaff, "To Err on Humans is Not Benign: Incentives for Adoption of Medical Error Reporting Systems," *Journal of Health Economics*, 23(2004): 935-949.
37. Remler, D, J Graff Zivin, and S Glied, "Modeling Health Insurance Expansions: Effects of Alternate Approaches," *Journal of Policy Analysis and Management*, 23(2004): 291-313.
38. Graff Zivin, J and A Small "Risk Sharing in Coasean Contracts," *Journal of Environmental Economics and Management*, 45(2003): 394-415.
39. Glied, S, D Remler and J Graff Zivin, "Inside the Sausage Factory: Improving Estimates of the Effects of Health Insurance Expansion Proposals," *Milbank Quarterly* 80(2002): 603-635.
40. Graff Zivin, J and J Bridges, "Addressing Risk Preferences in Cost-Effectiveness Analyses," *Applied Health Economics and Health Policy* 1(2002): 135-139.
41. Graff Zivin, J and D Zilberman, "Optimal Environmental Health Regulations with Heterogeneous Populations: Treatment versus 'Tagging'," *Journal of Environmental Economics and Management* 43(2002): 455-476.
42. Glied, S and J Graff Zivin, "How Do Doctors Behave When Some (But Not All) of Their Patients are in Managed Care?" *Journal of Health Economics* 21(2002): 337-353.
43. Gelijns, A, J Graff Zivin, and R Nelson, "Uncertainty and Technological Change in Medicine," *Journal of Health Politics, Policy, and Law* 26(2001): 913-924.
44. Graff Zivin, J, "Cost-Effectiveness Analysis with Risk Aversion," *Health Economics* 10(2001): 499-508.
45. Sunding, D, and J Zivin, "Insect Population Dynamics, Pesticide Use and Farmworker Health," *American Journal of Agricultural Economics* 82(2000): 527-540.

46. Zivin, J, B Hueth, and D Zilberman, "Managing a Multiple Use Resource: The Case of Feral Pig Management in California Rangeland," *Journal of Environmental Economics and Management* 39(2000): 189-204.

#### JOURNAL ARTICLES – SCIENCE

1. Graff Zivin J, Lyons E, "Increasing STEM Undergraduate Participation in Innovative Activities: Field Experimental Evidence," *PLoS ONE* 14(2019): e0214155.
2. Guirguis, K, R Basu, W Al-Delaimy, T Benmarhnia, R Clemesha, I Corcos, J Guzman-Morales, B Hailey, I Small, A Tardy, D Vashishtha, J Graff Zivin, and A Gershunov, "Heat, Disparities, and Health Outcomes in San Diego County's Diverse Climate Zones," *GeoHealth*, 2(2018): 212–223.
3. Milner-Gulland EJ, S Garcia S, W Arlidge , J Bull, A Charles, L Dagorn, S Fordham, J Graff Zivin, M Hall, J Shrader, N Vestergaard, C Wilcox, and D Squires, "Translating the Terrestrial Mitigation Hierarchy to Marine Megafauna Bycatch," *Fish and Fisheries*, 19(2018): 547-561.
4. Graff Zivin, J, M Neidell, "Air Pollution's Hidden Impacts," *Science*, 359(2018): 39-40.
5. Hoen, B, S Adomatis, T Jackson, J Graff Zivin, M Thayer, and G Klise, "Multi-State Residential Transaction Estimates of Solar Photovoltaic System Premiums," *Renewable Energy Focus*, 19-20(2017): 90-103.
6. Bharadwaj, P, J Graff Zivin, J Mullins, and M Neidell, "Early Life Exposure to the Great Smog of 1952 and the Development of Asthma," *American Journal of Respiratory and Critical Care Medicine*, 194(2016): 1475–1482.
7. Marsh, K, M Ganz, E Nørtoft, N Lund, J Graff Zivin, "Incorporating Environmental Outcomes into a Health Economic Model," *International Journal of Technology Assessment in Health Care*, 32(2016): 400–406.
8. Hoenigl, M, A Chaillon, SR Mehta, DM Smith, J Graff Zivin, and SJ Little, "Screening for Acute HIV Infection in Community-based Settings: Cost Effectiveness and Impact on Transmissions" *Journal of Infection*, 73(2016): 476-484.
9. Graff Zivin, J and K Novan, "Upgrading Efficiency and Behavior: Electricity Savings from Residential Weatherization Programs," *The Energy Journal*, 37(2016): 1-23.
10. Thirumurthy H, SH Masters, S Rao, K Murray, R Prasad, J Graff Zivin, E Omanga, and K Agot, "The Effects of Providing Fixed Compensation and Lottery-Based Rewards on Uptake of Medical Male Circumcision in Kenya: A Randomized Trial," *JAIDS*, 72(2016): S309-S315.
11. Allen, R, J Graff Zivin, and J Shrader, "Forecasting in the Presence of Expectations," *The European Physical Journal Special Topics*, 225(2016): 539-550.

12. Graff Zivin, J and J Shrader. "Temperature Extremes, Health, and Human Capital." *The Future of Children*, 26, no. 1 (2016): 31-50.
13. Burke et al. "Opportunities for Advances in Climate Change Economics," *Science*, 6283(2016): 292-293.
14. Burgos, J, T Patterson, J Graff Zivin, J Kahn, G Rangel, R Lozada, H Staines, and S Strathdee, "Cost-Effectiveness of Combined Sexual and Injection Risk Reduction Interventions Among Female Sex Workers Who Inject Drugs in Two Very Distinct Mexican Border Cities" *PLoS One*, 11(2), e0147719.
15. Hoenigl, M, J Graff Zivin, and S Little, "Costs per Diagnosis of Acute HIV Infection in Community-Based Screening Strategies: A Comparative Analysis of Four Screening Algorithms," *Clinical Infectious Diseases*, 62(2016): 501-511.
16. Taylor-Weiner, H, and J Graff Zivin, "Medicine's Wild West — Unlicensed Stem-Cell Clinics in the United States," *New England Journal of Medicine*, 373(2015): 985-987.
17. Graff Zivin, J and J Mullins, "Vessel Buybacks in Fisheries: The Role of Auction and Financing Structures," *Marine Policy*, 53(2015) 188–197.
18. Lichtenberg, E, J Graff Zivin, M Hrnčir, and J Nieh, "Eavesdropping Selects for Conspicuous Signals," *Current Biology*, 24(2014) 598-599.
19. Chisholm-Burns, MA, CA Spivey, J Graff Zivin, JK Lee, E Sredzinski, and EA Tolley, "Improving Outcomes of Renal Transplant Recipients with Behavioral Adherence Contracts: A Randomized Controlled Trial," *American Journal of Transplantation*, 13(2013): 2364–2373.
20. Jandorf, L, L Stossel, J Cooperman, J Graff Zivin, U Ladabaum, D Hall, L Thelemaque, W Redd, and S Itzkowitz, "Cost Analysis of a Patient Navigation System to Increase Screening Colonoscopy Adherence among Urban Minorities" *Cancer*, 119(2013): 612-620.
21. Schnur, J, J Graff Zivin, D Mattson, S Green, L Jandorf, AG Wernicke, and G Montgomery, "Acute Skin Toxicity-Related, Out-of-Pocket Expenses in Patients with Breast Cancer Treated with External Beam Radiotherapy" *Supportive Care Cancer*, 20(2012): 3105-3113.
22. Pop-Eleches C, H Thirumurthy, J Habyarimana, J Graff Zivin, M Goldstein, D de Walque, L MacKeen, J Haberer, J Sidle, D Ngare, and D Bangsberg, "Mobile Phone Technologies Improve Adherence to Antiretroviral Treatment in Resource-Limited Settings: A Randomized Controlled Trial of Text Message Reminders," *AIDS*, 25(2011): 825-834.

23. Chisholm-Burns MA, JK Lee, CA Spivey, M Slack, R Herrier, E Hall-Lipsy, J Graff Zivin, I Abraham, J Palmer, JR Martin, S Kramer, and T Wunz, "U.S. Pharmacists' Effects as Team Members on Patient Care: Systematic Review and Meta-Analyses," *Medical Care*, 48(2010): 923-933.
24. Chisholm-Burns, MA, J Graff Zivin, JK Lee, C Spivey, M Slack, R Herrier, E Hall-Lipsy, I Abraham, and J Palmer, "Economic Effects of Pharmacists on Health Outcomes in the United States: A Systematic Review," *American Journal of Health-System Pharmacy*, 67(2010): 1624-1634.
25. Shankaran V, TH Luu, N Nonzee, E Richey, J McKoy, J Graff Zivin, A Ashford, R Lantigua, H Frucht, M Scoppettone, CL Bennett, and S Sheinfeld Gorin, "Costs and Cost-Effectiveness of a Health Care Provider-Directed Intervention to Promote Colorectal Cancer Screening" *Journal of Clinical Oncology*, 27( 2009): 5370-5375.
26. Vitale MA, MG Vitale, J Graff Zivin, J Braman, L Bigliani, and E Flatow, "Rotator Cuff Repair: An Analysis of Utility Scores and Cost-Effectiveness," *Journal of Shoulder and Elbow Surgery*, 16(2008): 181-187.
27. Jackson K, K Scott, J Graff Zivin, D Bateman, J Flynn, J Keenan, M Chiang, "Cost-Utility Analysis of Telemedicine and Ophthalmoscopy for Retinopathy of Prematurity Management," *Archives of Ophthalmology*, 126(2008): 493-499.
28. Lee A, D Ng, J Graff Zivin, and P Green, "Economic Burden of a Gluten-Free Diet," *Journal of Human Nutrition and Dietetics*, 20(2007): 423-430.
29. Montgomery G, D Bovbjerg, J Schnur, D David, A Goldfarb, C Wertz, C Schechter, J Graff Zivin, K Tatrow , D Price, and J Silverstein, "A Randomized Clinical Trial of A Brief Hypnosis Intervention to Control Side Effects in Breast Surgery Patients," *Journal of the National Cancer Institute*, 99(2007): 1304-1312.
30. Anderson, K, J Jacobson, D Heitjan, J Graff Zivin, D Hershman, A Neugut, and V Grann, "Cost-effectiveness of Preventive Strategies for Women with a BRCA1 or a BRCA2 Mutation," *Annals of Internal Medicine*, 6(2006): 397-406.
31. Angevine P, J Graff Zivin, and P McCormick, "Cost-Effectiveness of Single-Level Anterior Cervical Discectomy and Fusion for Cervical Spondylosis," *Spine*, 17(2005): 1989-1997.
32. Khan K, P Muennig, M Gardam and J Graff Zivin, "Optimizing Clinical Management of Febrile Respiratory Illnesses During a SARS Outbreak in Respiratory Season," *Emerging Infectious Diseases*, 11(2005): 191-200.
33. Shih C, Graff Zivin J, Trokel S, Tsai J, "Clinical Impact of Central Corneal Thickness in the Management of Glaucoma," *Archives of Ophthalmology*, 122(2004): 1270-1275.



34. Mojtabai, R and J Graff Zivin, "Effectiveness and Cost-Effectiveness of Four Treatment Modalities for Substance Disorders: A Propensity Score Analysis," *Health Services Research*, 38:1(2003): 233-259.
35. Khan, K, P Muennig, M Behta, and J Graff Zivin, "Globalization and Infectious Diseases: Integrating Country of Origin into the Clinical Management of Latent Tuberculosis Infection," *New England Journal of Medicine*, 347(2002): 1850-1859.

## BOOKS

1. Graff Zivin, J and J Perloff (Eds.). *The Intended and Unintended Effects of U.S. Agricultural and Biotechnology Policies*. The University of Chicago Press, March 2012.

## BOOK CHAPTERS

1. Mullins J, J Graff Zivin, A Cattaneo, A Paolantonio, and R Cavatassi, "The Adoption of Climate Smart Agriculture: The Role of Information and Insurance under Climate Change," in *Climate Smart Agriculture - Building Resilience to Climate Change*, D Zilberman, L Lipper, N McCarthy, S Asfaw, and G Branca (Eds.), Springer, forthcoming.
2. Graff Zivin, J and M Neidell, "Pollution and Health," in *Encyclopedia of Health Economics*, Volume 3, Tony Culyer (Ed.), Elsevier, 2014.
3. Azoulay, P, J Graff Zivin, and G Manso, "NIH Peer Review: Challenges and Avenues for Reform," in *Innovation Policy and the Economy*, Volume 13, J Lerner and S Stern (Eds.), University of Chicago Press, 2013.
4. Azoulay, P, J Graff Zivin, and B Sampat, "The Diffusion of Scientific Knowledge across Time and Space: Evidence from Professional Transitions for the Superstars of Medicine," in *The Rate and Direction of Inventive Activity: A New Agenda*, J Lerner and S Stern (Eds.), April 2012.
5. Goldstein M, J Graff Zivin and H Thirumurthy, "The Household Impacts of Treating HIV/AIDS in Developing Countries," in *Annual World Bank Conference on Development Economics 2009: People, Politics, and Globalization*, YL Justin, and B Pleskovic (Eds.), World Bank Publications, June 2010.
6. Graff Zivin J, M Neidell, and L Feldman, "Treatment Uncertainty and Irreversibility in Medical Care: Implications for Cost-Effectiveness Analysis," in *The Economics of New Health Technologies - Incentives, Organization and Financing*, J Costa-Font, C Courbage, and A McGuire (Eds.), Oxford University Press, June 2009.
7. Graff Zivin, J, and D Sunding, "A Comparison of Policies to Reduce Pesticide Poisoning Combining Economic and Toxicological Data," in D Hall and J Moffit (Eds.), *Advances in the Economics of Environmental Resources: Economics of Pesticides, Sustainable Food Production and Organic Food Markets, Volume 4*, Elsevier Science Ltd., New York, NY 2002.

8. Moskowitz, A, D Williams, A Tierney, R Levitan, J Zivin, and A Gelijns, "Economic Considerations of Left Ventricular Assist Device (LVAD) Implantation," in M. Oz and D. Goldstein (Eds.), *Cardiac Assist Devices*, Futura Publishing Company, Inc., Armonk, NY, December 1999.
9. Zivin, J, D Zilberman, and J Siebert, "Agriculture at the Urban Fringe: A Competition for Scarce Resources," *California Agriculture: Issues and Challenges*, A Publication for the Association of Agricultural Economists XXIII Conference, Giannini Foundation, University of California, Berkeley, August 1997.
10. Zilberman, D, J Siebert, and J Zivin, "Externalities in California Agriculture," *California Agriculture: Issues and Challenges*, A Publication for the Association of Agricultural Economists XXIII Conference, Giannini Foundation, University of California, Berkeley, August 1997.

#### OTHER PUBLICATIONS

1. Azoulay et al. "Toward a More Scientific Science," *Science* 361(2018): 1194-1197.
2. Goldstein, A, P Azoulay, J Graff Zivin, and V Bulovic, "Promoting Energy Innovation with Lessons from Drug Development," The Hamilton Project Policy Proposal No. 2017-16. Brookings Institution (2017).
3. Chang, T, J Graff Zivin, T Gross, and M Neidell, "Air Pollution is Making Office Workers Less Productive," *Harvard Business Review*, September 29, 2016.
4. Chang, T, J Graff Zivin, T Gross, and M Neidell, "The Effect of Pollution on Worker Productivity: Evidence from Call-Centre Workers in China," *VOXEU*, July 15, 2016.
5. Graff Zivin J, M Kotchen, and E Mansur, "Are Electric Cars Greener? Depends on Where You Live" *Los Angeles Times*, November 17, 2014.
6. Azoulay, Pierre and Joshua Graff Zivin, "The Production of Scientific Ideas," *NBER Reporter* 3(2012): 7-9.
7. Committee on Health Impact Assessment, Board on Environmental Studies and Toxicology, National Research Council, *Improving Health in the United States: The Role of Health Impact Assessment*, The National Academy Press, 2011. Member of committee.
8. Graff Zivin J, M Nangami and H Thirumurthy, "Antiretroviral Treatment Improves Health of Economy" *Daily Nation: Kenya's Premier Newspaper*, May 30, 2006.
9. Glied, S, D Remler and J Graff Zivin, "Inside the Sausage Factory: Improving Estimates of the Effects of Health Insurance Expansion Proposals: Reply," *Milbank Quarterly* 81(2003): 165-167.
10. Khan, K, P Muennig, and J Graff Zivin, "Management of Latent Tuberculosis Infection in Immigrants: Reply," *New England Journal of Medicine*, 348(2003): 1291-1292.

11. Zivin, J, "El Optimo Diseño de los Dias de Carencia," *Chile Agrícola*, Santiago, Chile, Noviembre-Diciembre 1995.

#### MANUSCRIPTS IN SUBMISSION

1. Graff Zivin, J, Y Song, Q Tang, and P Zhang, "Temperature and High-Stakes Cognitive Performance: Evidence from the National College Entrance Examination in China," NBER WP # 24821.
2. Gilbert, B and J Graff Zivin, "Dynamic Corrective Taxes with Time-Varying Salience," NBER WP# 25014.

#### RESEARCH IN PROGRESS

1. Graff Zivin, J, L Kahn, and M Neidell, "Contract Design and Employee Learning."
2. Graff Zivin, J and M Kahn, "Industrial Productivity in a Hotter World: The Aggregate Implications of Heterogeneous Firm Investment in Air Conditioning," NBER WP #22962.

#### RESEARCH GRANTS

- Entrepreneurial Motivation: An RCT, Kauffmann Foundation, Co-Principal Investigator, 2018-2019.
- Can Innovators be Created? Field Experimental Evidence from an Innovation Contest, Kauffmann Foundation, Co-Principal Investigator, 2016-2017.
- The Effect of Pollution on Worker Productivity, Economic Preferences, and Strategic Behavior, UCMEXUS-CONACYT, Principal Investigator, 2016-2017.
- Risk, Research Funding Rules, and Social Welfare, National Science Foundation, Principal Investigator, 2016-2019.
- Early Career Choice, Funding Variation and Scientific Output, National Science Foundation, Principal Investigator, 2015-2017.
- Innovation in an Aging Society, National Institutes of Health, Co-Principal Investigator, 2013-2018.
- Idea and Economic Spillovers from Publicly Funded Biomedical Research, National Science Foundation, Principal Investigator, 2011-2014.
- Optimizing the use of economic incentives to increase male circumcision demand: a randomized trial to compare fixed vs. lottery-based incentives in Kenya, 3IE, Co-Investigator, 2013-2014.
- The Long-Term Effects of Early Childhood Exposure to Pollution: Evidence from the London Smog Incident of 1952, UC Center for Energy and Environmental Economics, Co-Principal Investigator, 2013.
- The Impact of Environmental Conditions on the Productivity of Agricultural Workers, National Institutes of Health, Co-Principal Investigator, 2011-2012.
- The Role of Environment in Human Capital Formation, UC Center for Energy and Environmental Economics, Co-Principal Investigator, 2012.

- Energy Efficient Retrofits and the Rebound Effect in Low-Income Housing, UC Center for Energy and Environmental Economics, Principal Investigator, 2011.
- Solar Panel Capitalization into Residential Property Values, UC Center for Energy and Environmental Economics, Principal Investigator, 2010.
- Estimating the Effect of Exposure to Superstar Scientists: Evidence from Academia and the Biopharmaceutical Sector, National Science Foundation, Principal Investigator, 2007-2010.
- Incentives and Creativity: Theory and Evidence, NBER Innovation Policy and the Economy Program, Co-Principal Investigator, 2007-2008.
- Adherence to ARV Treatment and its Effects on Socio-Economic Outcomes: Evidence from Western Kenya, World Bank, Co-Principal Investigator, 2007-2008.
- HIV Testing and Behavioral Change, Hewlett Foundation, Co-Principal Investigator, 2007.
- Determinants of the Adherence to AIDS Treatment Economic in Western Kenya, World Bank, Principal Investigator, 2006.
- The Economic Impacts of Disease and Treatment on Household Welfare in North Rift region of Kenya, USAID, Principal Investigator, 2005-2006.
- Uncertainty in Cost Effectiveness Analysis, Agency for Healthcare Research and Quality, Principal Investigator, 2003-2006.
- The Columbia-Stanford Consortium on Pharmaceutical Innovation, The Merck Company Foundation, Principal Investigator and Director, 2002-2005.
- Dissemination of Cervical Cancer Screening to Primary Care Physicians, Centers for Disease Control, Investigator, 2001-2006.
- The Economic Impacts of Disease and Treatment on Household Welfare in North Rift region of Kenya, World Bank, Principal Investigator, 2004-2005.
- The Economic Impacts of Disease and Treatment on Household Welfare in North Rift region of Kenya, Pfizer Inc., Principal Investigator, 2004-2005.
- Economic Impacts of HIV/AIDS and Treatment, The Economic and Social Research Council, Investigator, 2003-2004.
- Reporting Systems and Learning: Best Practices, Agency for Healthcare Research and Quality, Investigator, 2001-2004.
- The REMATCH Trial, National Heart, Lung, and Blood Institute, Investigator, 1997-2002.
- Protocol Design for Ventricular Assist Device Trial, Arrow Lionhart Corporation, Investigator, 2002.
- The Role of Patients in the Production of their own Health, Institute for Social and Economic Research and Policy, Principal Investigator, 2001.
- Therapeutic Decision Making for DCIS: The Role of Risk Preferences, American Cancer Society, Principal Investigator, 1999-2000.

## CONSULTANCIES

- Rockefeller Foundation, Economic Council on Planetary Health, 2017 – present
- World Wildlife Fund, Global Think Tank on Transboundary Fisheries, 2016 – present
- UN Food & Agriculture Organization, Climate Smart Agricultural Policy, 2013 – present
- The World Bank, Development Impact Evaluation, 2010 - present
- Abt Associates, Projected Labor Market Impacts from Climate Change, 2016-2018
- International Seafood Sustainability Foundation, The Design of Buyback Auctions, 2013.
- The World Bank, AIDS Campaign Team for Africa, 2009 - 2012
- The World Bank, Payment for Environmental Services in Brazil, 2010 - 2011
- UN Food & Agriculture Organization, Economic Growth and Nutrition, 2010-2011
- International Seafood Sustainability Foundation, Economic Development Strategies for Pacific Island Nations and Territories, 2011.
- National Institutes of Health, Office of Science Policy, Scientific Competitiveness Project, 2007-2008.
- The Pew Charitable Trusts, Project on Medical Liability in Pennsylvania, 2002-2004.
- UN Food and Agriculture Organization, Poverty Alleviation through Soil Carbon Sequestration, 2001-2002.

## TEACHING EXPERIENCE

- The Economics of Pollution (PhD-level, Economics)
- Environmental Economics: Health and Human Capital (PhD-level, Economics)
- Environmental and Regulatory Economics (Masters-level, Public Policy)
- Green Technology: Science & Policy (Masters-level, Public Policy)
- International Health Economics (Masters-level, Public Policy)
- Sustainable Development Seminar (PhD-level, Public Policy)
- Natural Resource and Environmental Economics (PhD-level, Economics)
- Cost Benefit Analysis and Health (Masters-level, Public Health/Public Policy)
- Introduction to Health Economics (Masters-level, Public Health)
- Program Evaluation (Masters-level, Public Health)
- Advanced Health Economics (Masters-level, Public Health)
- Approaches to Conservation Economics: (Certificate Program, Ecology)