Susanna B. Berkouwer

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Research fields

Primary: Development economics, environmental economics

Secondary: Behavioral economics, political economy

Academic appointments

Fellow, The Coase Project

2020-
2022 – 2024
2023 -
2023 -
2023-
2023 -
2022 -

Education

Ph.D., Agricultural and Resource Economics, University of California, Berkeley	2014 – 2020
M.A., International and Development Economics, Yale University	2012 – 2013
B.Sc., Statistics (with Economics), University College London	2007 - 2010

Teaching

Wharton MBA Core: BEPP 6110, Microeconomics for Managers (previously MGEC 6110)

Fall 2020, 2021, 2022, 2023, 2024

2022 -

Journal publications

Berkouwer, S., P. Biscaye, E. Hsu, O. Kim, K. Lee, E. Miguel, C. Wolfram. 2023. "Money or power? Choosing Covid-19 Aid in Kenya." *Energy Economics* 127(B)107036. Available here.

Berkouwer, S. and J. Dean. 2022. "Credit, attention, and externalities in the adoption of energy efficient technologies by low-income households." *American Economic Review* 122(10)1–41. Available here.

Berkouwer, S., P. Biscaye, S. Puller, C. Wolfram. 2022. "Disbursing emergency relief through utilities: Evidence from Ghana." *Journal of Development Economics* 156(C)102826. Available here.

Berkouwer, S. 2020. "Electric heating and the effects of temperature on household electricity consumption in South Africa." *The Energy Journal* 41(4)209–230. Available here.

Working papers

Wolfram, C., E. Miguel, E. Hsu, S. Berkouwer (r). 2023. "Contracting structures in public procurement: Evidence from donor-funded electrification in Kenya." <u>Submitted</u>. Available here. NBER WP #30948.

Berkouwer, S. and J. Dean. 2023. "Cooking, health, and daily exposure to pollution spikes." <u>Submitted</u>. Available here. NBER WP #31614.

Wolfram, C., S. Berkouwer, F. Vial, E. Hsu, O. Kim, E. Miguel©. 2024. "The distribution of power: Decentralization and favoritism in public infrastructure." <u>Submitted</u>. Available here.

Berkouwer, S., P. Biscaye, M. Mikdash, S. Puller, and C. Wolfram. 2024. "Voltage quality and economic activity." <u>Submitted</u>. Available here.

Selected research in progress

- "Electric cookstove adoption in Tanzania" with J. Dean
- "Offsets and the global cost of climate change mitigation" with J. Dean
- "Additionality and carbon offsets" with J. Dean
- "Can the world's electric grids support an energy transition? Evidence from Africa" with M. Bariya, M. Odero, N. Klugman, J. Adkins, and G. Flaspohler

Other publications

- Klugman, N. J. Adkins, S. Berkouwer, K. Abrokwah, M. Podolsky, P. Pannuto, C. Wolfram, J. Taneja, and P. Dutta. 2023. "Measuring Grid Reliability in Ghana." in T. Madon et al (Eds.), *Introduction to Development Engineering: A Framework with Applications from the Field.* Springer. Open Access. Available here.
- Klugman, N. J. Adkins, S. Berkouwer, K. Abrokwah, I. Bobashev, P. Pannuto, M. Podolsky, A. Suseno, R. Thatte, C. Wolfram, J. Taneja, and P. Dutta. 2019. "Hardware, Apps, and Surveys at Scale: Insights from Measuring Grid Reliability in Accra, Ghana." *Proceedings of the 2nd ACM Conference on Computing & Sustainable Societies. COMPASS'19.* Available here.
- Berkouwer, S., A. Sultan, and S. Yehia. 2014. "Homosexuality in Sudan and Egypt: Stories of the Struggle for Survival." *LGBTQ Policy Journal*, Vol. IV, pp. 66–76. Available here.

External grants

J-PAL Social Protection Initiative, 2023 (\$7,500) with Joshua Dean

Millenium Challenge Corporation, 2021 (\$1,550,000) with Duncan Callaway and Steven Puller

USAID Power Africa, 2021 (\$55,000) with Edward Miguel

International Growth Centre-Sierra Leone, 2020 (\$77,000) with Steven Puller and Catherine Wolfram

International Growth Centre–Kenya, 2020 (\$25,000) with Eric Hsu, Oliver Kim, Kenneth Lee, Edward Miguel, and Catherine Wolfram

Private Enterprise Development in Low-income Countries (PEDL), 2020 (\$46,500) with Eric Hsu, Kenneth Lee, Edward Miguel, and Catherine Wolfram

DFID Energy for Economic Growth, 2020 (\$29,000) with Edward Miguel and Catherine Wolfram

International Growth Center-Kenya, 2018 (\$24,300), with Joshua Dean

Weiss Fund for Research in Development Economics, 2018 (\$31,544), with Joshua Dean

DFID Economic Development and Institutions, 2018 (\$361,000) with Edward Miguel and Catherine Wolfram

Awards & Scholarships

AAEA, Outstanding Doctoral Dissertation, Honorable Mention, 2021

US/International Association for Energy Economics, Best Student Paper Award, 2019

Art Rosenfeld Award for Energy Efficiency, 2018

Prins Bernhard Cultuurfonds, 2014

Dr Hendrik Muller's Vaderlandsch Fonds, 2012

Internal grants

- 2024 Wharton ESG Initiative (\$10,000), Wharton Global Initiatives (\$8,000)
- 2023 Tanoto ASEAN Initiative (\$60,000), Wharton ESG Initiative (\$26,042), Kleinman Center for Energy Policy (\$17,570, \$7,500), Global Initiatives (\$13,000), Wharton Dean's Fund (\$9,000), Wharton Analytics (\$5,000)
- 2022 Mack Institute for Innovation Management (\$62,000), Penn Global (\$74,000), Analytics at Wharton (\$17,000), Kleinman Center for Energy Policy (\$15,000), Wharton Dean's Fund (\$8,500), Chicago DEC/BFI (\$10,000)
- 2021 Ripple Blockchain Research Fund (\$40,000), Wharton Dean's Fund (\$20,000), Kleinman Center for Energy Policy (\$15,000), Mack Institute for Innovation Management (\$10,000), Analytics at Wharton (\$10,000), Wharton Global Initiatives (\$8,000), Wharton Risk Center (\$7,500)
- 2020 Kleinman Center for Energy Policy (\$15,000), Analytics at Wharton (\$15,000)
- 2019 Rocca Dissertation Research Fellowship (\$6,000)
- 2018 Rocca Dissertation Research Fellowship (\$6,000), Xlab Behavioral Research Grant (\$3,000), ARE Graduate Student Travel Grant (\$1,500)

Prior Rocca Pre-dissertation Research Fellowship (\$4,000), Xlab Behavioral Research Grant (\$3,000), Levin Family Seed Grant (\$2,000), ARE Graduate Student Travel Grant (\$1,500), Graduate Assembly Travel Award (\$300), ARE Graduate Student Travel Grant (\$1,500)

Blog posts and policy briefs

- 23. Building to Last: Impacts of a Philadelphia energy-efficiency housing rehabilitation program for low-income households, *Kleinman Center Policy Digest*, 4/24/2024
- 22. Strengthening the electricity grid in Ghana, MCC Evaluation Brief, 3/2024
- 21. Improving voltage quality through transformer construction in Accra, Ghana, *Kleinman Center Policy Digest*, 3/21/2024
- 20. The health impacts of average vs peak pollution exposure: Evidence from cooking in Kenya, VoxDev, 2/22/2024
- 19. Private actions in the presence of externalities: The health impacts of reducing air pollution peaks but not ambient exposure, Becker Friedman Institute Research Brief, 10/3/2023
- 18. Improved cookstoves halve air pollution peaks, but ambient exposure dampens health benefits, *Kleinman Center Policy Digest*, 10/2/2023
- 17. How do multilateral agencies' contracting structures affect the quality, timeliness, and cost of large-scale infrastructure projects? *Penn Program on Regulation*, 8/2023
- 16. How contracting structures affect project outcomes in public procurement, VoxEU, 8/2023
- 15. Comparing two approaches to procurement, NBER Digest, 5/2023
- 14. Power quality in donor-funded infrastructure projects, Energy for Growth Hub memo, 2/2023
- 13. "Lights on, Lights off": Evaluating outages, voltage, and economic impacts of grid investments in Accra, Ghana, *Center for Effective Global Action*, 8/12/2022
- 12. Emergency utility subsidies can help citizens weather economic crises, but may exclude the poorest citizens, World Bank Sustainable Energy for All, 7/18/2022
- 11. Money or Power? Financial infrastructure and optimal policy, Private Enterprise Development in Low-Income Countries, 4/22/2022
- 10. Parametric hurricane protection in Dominica: Insights from initial adopters, Wharton Risk Center blog, 2/11/2022
- 9. What's reliability without voltage quality? Energy for Growth Hub memo, 11/29/2021
- 8. Barriers to energy efficiency adoption in low-income communities, $Kleinman\ Center\ Policy\ Digest,$ 12/9/2021
- 7. Money or power? Choosing Covid-19 aid in Kenya, *International Growth Centre Blog*, 5/25/2021
- 6. Does donor conditionality improve infrastructure construction quality? DFID Economic Development & Institutions Blog, 3/1/2021
- 5. Subsidizing electricity during a pandemic: Lessons from Ghana, $Energy\ Institute\ at\ Haas\ Blog,\ 7/20/2020$
- 4. Can energy efficiency subsidies improve welfare in low-income countries? Evidence from Kenya says yes, VoxDev, 5/25/2020
- 3. What causes under-adoption of profitable energy efficient technologies in Kenya? World Bank Blog, 11/26/2019
- 2. How do credit and psychology affect the adoption of profitable energy efficient technologies in Kenya? International Growth Centre Policy Brief, 8/1/2019
- 1. Can cell phones help improve electricity reliability? *Energy Institute at Haas Blog*, 2/18/2019

Media

- 6. Climate Crisis: Who does climate change hit the hardest? The Ripple Podcast, 4/18/2023
- 5. Research spotlight: Data analytics for economic efficiency in energy policy, *Analytics at Wharton*, 10/5/2022
- 4. Achieving UN SDG #1: No poverty, UPenn Earth Day Teach-in, 4/18/2022
- 3. Climate policy is anti-poverty policy, UPenn 1.5° C Minute Climate Lectures, 9/22/2021

- 2. Power for the people: How should governments develop electric grids? DFID Economic Development & Institutions, 11/21/2019
- 1. Kenya races toward goal of electrifying every household, PBS NewsHour Weekend, 5/20/2017

Written coverage

- 7. The overlooked causes of air pollution, Knowledge at Wharton, 2/19/2024
- 6. Cookstoves reduce charcoal use by 40%, The Carbon Herald, 2/8/2024
- 5. Wharton study finds energy-efficient technologies can help families save money, *The Daily Pennsylvanian*, 12/9/2021
- 4. How to drive energy efficiency among low-income households, *Knowledge at Wharton*, 11/22/2021
- 3. Fuel efficient cookstoves, Giving Green Recommendations, 11/2020
- 2. Could easier credit speed the adoption of energy efficiency? Chicago Booth Review, 9/29/2020
- 1. Closing the energy efficiency gap for low-income households, *Energy Institute at Haas*, 10/21/2020

Seminar and conference presentations (*scheduled)

- 2024 *Wisconsin-Madison, *Michigan State, LSE/Imperial Workshop, UC San Diego, World Bank, NBER (EEE), St. Andrews
- 2023 Yale, NEUDC at Harvard, IAP at USC, PEDL at MIT, Energy Camp at UC Berkeley, Coase Conference at Chicago, EPIC Workshop at Chicago, NBER (EEE), University of Arizona, Inter-American Development Bank, UPenn (PDRI, One Health@Penn)
- 2022 Coase Conference at Chicago, Columbia, BREAD at UCL, Energy Camp at UC Berkeley, Occasional Workshop at UC Santa Barbara, Arizona State, CMU/Pittsburgh, NBER (EEE-discussant), Resources For the Future, Center for Global Development, Busara Center for Behavioral Economics, Working Group on Kenyan Political Economy, Strathmore University, UPenn (Wharton AEW, Africa Symposium, PDRI, Kleinman)
- 2021 Duke, Cornell, University of Hawai'i, Energy Camp at UC Berkeley, IDE Conference at Yale, London School of Economics, Berkeley-Harvard-Yale (EEE), World Bank, ASSA, AERE, GiveWell, PacDev, OSWEET, UPenn (Africa symposium, PDRI)
- 2020 NBER Fall Meetings (DEV), NBER SI (EEE), CEGA E2A (Climate Change & Global Poverty), Early-Career Behavioral Economics, UPenn (Wharton AEW, EEF), Dartmouth, Boston University, Tufts, Sciences Po, University of British Columbia, Johns Hopkins (Carey), World Bank, Stockholm (IIES)
- 2019 NEUDC at Northwestern, WGAPE at University of British Columbia, Occasional Workshop at UC Santa Barbara, Heartland Workshop at UI Urbana-Champaign, USAEE, University of Nevada, Reno, Paris School of Economics (EDI), UC Berkeley (Development Economics, Psychology & Economics, ARE, SEEDEC, X-LAB)
- Prior WGAPE at the University of British Columbia, IPWSD at Columbia, CREEC at Makerere University, Busara Center for Behavioral Economics, UC Berkeley

Conferences & events

- 2024 Panelist, Cutting edge research in environmental and resource economics, AERE Speaker, Wharton ESG Initiative Convening
- 2023 Speaker, Energizing Africa's Future: Pathways to a Just Energy Transition, Wharton Africa Business Forum
 - Speaker, Wharton Climate Prof, Wharton ESG Initiative
 - Speaker, Energy Policy Fireside Chat, Penn Undergraduate Economics Society
- 2022 Moderator, Are Industry Regulators Ready for the Climate Transition?, the Kleinman Center Speaker, Wharton Climate Prof, Wharton ESG Initiative
 - Panelist, Workshop on Global Climate Finance, Perry World House & Wharton Climate Center Panelist, Developing and managing a research agenda, AERE
 - Moderator, Clean Energy in Africa: Unfair & Impractical? Wharton Africa Student Association and the Wharton Energy & Climate Club

2021 Speaker, Coffee Break Webinar, Energy for Growth

Judge, Best Student Paper award, US Association for Energy Economics

Panelist, Wharton Climate Prof, Wharton Risk Center

Panelist, Womxn's Faculty and Alumni panel, Economists for Equity at Berkeley

2020 Panelist, LGBTQ Job Market panel, American Economic Association

Panelist, Women in Energy Event, Wharton Undergraduate Energy Group

Service

2023_2024	Senior /latera	l recruiting committee,	REPP Wharton
ZUZ3-ZUZ4	Semor/latera	i recruiting committee.	DEFF. Wharton

- 2022– Organizer, Penn Development Economics Seminar
- 2020 Co-organizer, Energy Economics & Finance Seminar, Kleinman Center for Energy Policy
- 2022 Organizer, Wharton Applied Economics Workshop
- 2022 Organizer, Penn Development Conference on Climate Change & Environment
- 2021–2022 Junior recruiting committee, BEPP, Wharton
- 2020–2021 Committee on diversity and inclusion, BEPP, Wharton
- 2020–2021 MBA Studies Committee, BEPP, Wharton
- 2017–2018 PhD Admissions committee member, UC Berkeley Agricultural and Resource Economics

Professional activities

2023	Mentor, American Economic Association Committee on the Status of LGBTQ+ Individuals
	in the Economics Profession (AEA CSQIEP)

- 2022 CeMENT Mentee, American Economic Association Committee on the Status of Women in the Economics Profession (AEA CSWEP)
- 2021 Faculty coach, Researcher matching programme, International Growth Centre
- 2017–2019 Leadership board, Women in Economics at Berkeley
- 2013–2014 Member of the editorial board, Harvard LGBTQ Policy Journal

Journal refereeing

American Economic Review, Journal of Political Economy, AEJ: Applied Economics, AEJ: Economic Policy, AER: Insights, Climatic Change, Economic Development and Cultural Change, Economic Journal, Economics Letters, Energy Journal, Energy Economics, Environment and Development Economics, Journal of Development Economics, Journal of Development Economics (pre-results review), Journal of Public Economics, Journal of the Association of Environmental and Resource Economists, Journal of the European Economic Association, Management Science, Nature Climate Change, Review of Economics and Statistics, Utilities Policy, World Bank Economic Review

Grant & conference reviewing

NSF Economics Program, J-PAL King Climate Action Initiative (K-CAI), Alfred P. Sloan Foundation, Fund for Innovation in Development (FID), Private Enterprise Development in Low-Income Countries (PEDL)

Guest lectures

- 2023 Wharton Public Policy Certificate Program (Energy and Environmental Policy) UC Berkeley Summer School in Environmental and Energy Economics University of Pennsylvania (HIST 1370-401 African Environmental History)
- 2022 Wharton Public Policy Certificate Program (Energy and Environmental Policy)
 Strathmore University, Kenya (MS Sustainable Energy Transitions)
 Wharton PhD program (BEPP 941 Development Economics)
 Wharton Executive Education (Economics of Blockchain & Digital Assets)
- 2021 Virginia Tech (AAEC 3324 Environmental & Sustainable Development Economics)
 - Swarthmore University (ECON 044 Behavioral Economics)
- 2020 UC Berkeley (MBA 296 Applied Impact Evaluation)
- 2019 Beahrs Environmental Leadership Program (Impact Evaluation) UC Berkeley (ECON 172 African Economic Development)

2016 CREEC, Makerere University, Uganda (Impact Evaluation)

Other positions

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Yale University, Economic Growth Center – Short-term visitor
UC Berkeley, Data and Decisions (MBA 200) – Graduate Student Instructor
UC Berkeley – Graduate Student Researcher
UC Berkeley – Graduate Student Researcher
Harvard University, Kennedy School of Government – EPoD Research Fellow
Yale University, Economics of Poverty Alleviation (ECON 327) – Teaching Fellow
UC Berkeley – Graduate Student Researcher
Proposition (ECON 327) – Teaching Fellow
The University of Natural Resources (ECON 330) – Teaching Fellow
UC Berkeley, Data and Decisions (MBA 200) – Graduate Student Instructor
UC Berkeley, Data and Decisions (MBA 200) – Graduate Student Instructor
UC Berkeley, Data and Decisions (MBA 200) – Graduate Student Instructor
UC Berkeley, Data and Decisions (MBA 200) – Graduate Student Instructor
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Languages

English (native), Dutch (native), French (advanced), Spanish (advanced), Swahili (conversant)

Citizenship

Netherlands (U.S. Permanent Resident)

June 11, 2024