

# Joshua W. Deutschmann

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## Academic Employment

Postdoctoral Scholar and Lead Researcher, Development Innovation Lab,  
Kenneth C. Griffin Department of Economics, University of Chicago, July 2021–

## Education

Ph.D. Agricultural & Applied Economics, University of Wisconsin–Madison, 2021

*Fields:* Development, Applied Econometrics, Industrial Organization

M.A. Economics, Boston University, 2013

B.A. Economics (Honors Scholar), B.S. Mathematics (In Honors), *Magna Cum Laude*,  
Virginia Polytechnic Institute & State University, 2012

## Peer-Reviewed Publications

Measuring willingness to pay for reliable electricity: Evidence from Senegal  
*with Agnieszka Postepska and Leopold Sarr. World Development*, Vol. 138, 2021.

The reform of energy subsidies in Iran: The role of cash transfers,  
*with Djavad Salehi–Isfahani and Bryce Stucki. Emerging Markets Finance and Trade*, Vol. 51,  
Issue 6, 2015.

## Working Papers

Subsidies and the sustainability of technology adoption: Evidence from the sanitation services market in Dakar

Privatization of public goods: Evidence from the sanitation sector in Senegal  
(*Revise & Resubmit, Journal of Development Economics*)

*with Jared Gars, Jean–François Houde, Molly Lipscomb, and Laura Schechter. NBER Working Paper No. 29295*

Contracting and quality upgrading: Evidence from an experiment in Senegal  
*with Tanguy Bernard and Ouambi Yameogo.*

*Blog and podcast coverage:* [World Bank Development Impact Blog](#); [NOVAFRICA Development Economics Job Market Talks Podcast](#)

Spillovers without social interactions in urban sanitation (*under review*)

*with Molly Lipscomb, Laura Schechter, and Siyao Jessica Zhu.*

Can smallholder extension transform African agriculture?

*with Maya Duru, Kim Siegal, and Emilia Tjernström. NBER Working Paper No. 26054*

## **Press Appearances**

“The Poop Cartel,” July 25, 2018: [Planet Money](#) (Episode 855); July 27, 2018: [All Things Considered](#) and [Goats and Soda](#). NPR

## **Grants & Fellowships**

Wellspring-DIL Ag fund (2022): *Social learning and technology diffusion over the medium run*, with Michael Kremer [\$250,000]

PEDL-CDC Major Research Grant (2022): *Credit for climate change: Water tanks as a means of resilience*, with Tomoko Harigaya and Michael Kremer [\$610,000]

J-PAL King Climate Action Initiative (2021): *Promoting asset-collateralized loans using digital advisory services*, with Tomoko Harigaya and Michael Kremer [\$208,000]

J-PAL King Climate Action Initiative (2021): *Sustainable spillovers: the health and environmental impacts of solar energy adoption*, with Lori Beaman, R Subramanian, and Emilia Tjernström [\$62,000]

PEDL Exploratory Research Grant (2020): *The effect of government relief measures on SME employment and survival in Burkina Faso during the COVID-19 crisis*, with Soumaila Gansonre, Louise Guillouet, and Aristide Ouedraogo [\$40,000]

Agricultural Technology Adoption Initiative (2019): *Credit, uncertainty, and monitoring for technology adoption: The case of Aflasafe in Senegal*, with Tanguy Bernard, Laura Schechter, and Ouambi Yameogo [\$141,000]

PEDL Capacity Building Grant (2019): *Exploring the structure of maize markets in Burkina Faso*, with Soumaila Gansonre, Louise Guillouet, and Aristide Ouedraogo [\$6,000]

CGIAR Research Program on Policies, Institutions, and Markets (2019): *Enhancing returns to technology adoption through independent certification: the case of Aflasafe in Senegal*, with Tahirou Abdoulaye, Tanguy Bernard, Konlambigue Matieyedou, Laura Schechter, and Ouambi Yameogo [\$315,000]

Kenneth and Pauline Parsons Graduate Fellowship Fund Research Travel Grant (2019)

UW-Madison Student Conference Travel Grant (2020)

UW-Madison Student Research Travel Grant (2019)

UW-Madison AAE Conference Presentation Travel Grants (2018, 2020)

UW-Madison / Mellon Foundation Area and International Studies Research Fellowship (2017)

UW-Madison University Fellowship (2015–2016; 2018–2019)

## **Invited Seminars**

2021 Toulouse School of Economics; Sherbrooke University

2020 USDA Economic Research Service

2019 IDinsight Dakar

## **Conference Presentations**

2022 AAEA Annual Meeting\*; Advances with Field Experiments\*

- 2021 AEA/ASSA Annual Meeting (Poster); CEPR STEG 2021 Annual Conference; Oxford Centre for the Study of African Economies; AAEA Annual Meeting (International Section); MWIEDC; NBER Risks in Agricultural Supply Chains; ADBI-IFS Workshop on Sanitation and Development
- 2020 Oxford Centre for the Study of African Economies (cancelled); AAEA Annual Meeting (Selected Presentation, cancelled); LEAP/LdA Virtual Summer School in International and Development Economics; NEUDC; SEA Annual Meeting; APPAM Annual Conference (Poster); PEDL 2020 Conference on Firms in Low-income Countries
- 2019 Midwest International Economic Development Conference; Global Poverty Research Lab Pre-Analysis Plan Mini-Conference
- 2018 Bay Area Behavioral and Experimental Economics Workshop; IDEAS Summer School in Development (Poster); AAEA Annual Meeting (Organized Symposium); North American ESA Conference
- \* planned

## ***Workshop Participation***

- 2019 NBER/African Development Bank: Transforming Rural Africa
- 2018 PEDL/NYU Abu Dhabi Workshop: The Frontiers of Research in Private Enterprise Development in Low-Income Countries; CEAR/Huebner Summer Risk Institute; Bill & Melinda Gates Foundation Dakar WASH MEDS Convening

## ***Research Experience***

University of Wisconsin-Madison

Student PI (Aflasafe Senegal project), 2019-2021

Research Assistant for Emilia Tjernström, 2017-2018

Research Assistant for Laura Schechter, 2015-2016

Innovations for Poverty Action, Dakar Urban Sanitation Project

PIs: Jean-François Houde, Molly Lipscomb, and Laura Schechter, 2013-2016

Virginia Polytechnic Institute & State University

Research Assistant for Djavad Salehi-Isfahani, 2012

## ***Teaching Experience***

TA, World Hunger & Malnutrition, UW-Madison, Spring 2020 (mean evaluation: 4.8/5)

## ***Professional Service***

*Referee Service:* African Journal of Agricultural and Resource Economics, American Economic Journal: Economic Policy, Journal of Development Economics, Journal of Development Effectiveness, Journal of International Development, Journal of the Agricultural & Applied Economics Association, Lahore Journal of Economics, Q Open, Review of Economics and Statistics, Review of Economics of the Household

*Department Service:* Taylor Hibbard Club President (2016-2017); Graduate Committee Student Representative (2017-2018); Coordinator, AAE Development/Political Economy Lab (2017)

## ***Other Professional Experience***

Independent Consultant [Analysis, Survey Programming, Data Management]

Research Analyst, Vela Environmental [now KCoe Isom] (2010–2012)

Intern, groSolar and Chesapeake Solar [now SolarCity/Tesla Solar] (2008, 2009)

Intern, Howard County Library IT Department (2005–2008)

## ***Miscellaneous***

*Affiliations:* American Economic Association, Agricultural & Applied Economics Association, Economic Science Association

*Technical Proficiencies:* Adobe Creative Suite, FrontlineSMS,  $\LaTeX$ , Linux, Matlab, ODK, Python, QGIS, R, Stata, SurveyCTO, Web Design

*Foreign Languages:* English (native), French (fluent), Portuguese (basic, actively learning), Wolof (basic)

*Honors and Awards:* National Merit Scholar, National AP Scholar, Eagle Scout

*Erdős Number:* 6

## ***References***

*Available upon request.*

Last updated: March 29, 2022