




# Karl Dunkle Werner

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 [karldw.org](http://karldw.org)  
 [karldw](https://github.com/karldw)

## Education

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- Expected May 2021 ■ UC Berkeley, PhD Candidate, Agricultural and Resource Economics
  - JMP: [Hard to Measure Well: Can Feasible Policies Reduce Methane Emissions?](#)
  - Energy and environmental economics; public economics; applied econometrics
- 2017 ■ UC Berkeley, Master of Science, Agricultural and Resource Economics
- 2013 ■ University of Michigan, Bachelor of Science with distinction
  - Economics and Interdisciplinary Physics, minor in Complex Systems

## Work Experience

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- May 2016–Present ■ Graduate student researcher, [UC Energy Institute](#)
  - Self-led research projects:*
    - Design and conduct statistical analysis using public and proprietary data
    - Model economic and environmental impacts of enforceable and innovative policies
    - Present context and findings with policymakers and across academic fields
    - Write results clearly in succinct research briefs and detailed technical reports
    - Train and mentor research assistants in policy context and data analysis
  - Work on faculty-led projects:*
    - Meet and discuss policy with stakeholders in utilities and state government
    - Collect data, conduct analysis, and present results internally
    - Contribute to environmental policy research
    - Assist other researchers with computing, air modeling, and statistical methods
- June 2019–Aug 2019 ■ Summer associate, The Brattle Group
  - Characterize policy proposals for regulators, detailing the incentives and behaviors they would create in electricity markets, utilities, and customers
  - Present Brattle research to academics and utility stakeholders at [CRRRI](#) 2019
  - Analyze surveys and introduce machine learning techniques to colleagues
- Jan–May 2017, Aug–Oct 2018 ■ Reader and Graduate Student Instructor for MBA courses “Energy and Environmental Markets” and “Data and Decisions”
  - Teach essential statistical tools and write course materials
  - Run an electricity strategy game for students to trade in electricity and CO<sub>2</sub>
- June 2013–June 2015 ■ Senior research assistant, Federal Reserve Board, Short-Term Funding Markets
  - Collect, clean, analyze, and present data on short-term debt markets, contributing to the Board’s market risk monitoring and decision-making
  - Analyze the effect of information disclosure requirements on bond markets
  - Collaborate with other regulatory agencies and across the Federal Reserve

## Research in Progress

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- JMP ■ “[Hard to Measure Well: Can Feasible Policies Reduce Methane Emissions?](#)”  
With Wenfeng Qiu
- “Hedonic Valuation of Flood Risk on Agricultural Land”  
With Oliver Browne, Alyssa Neidhart, and David Sunding
- “Rate of Return Regulation Revisited” with Stephen Jarvis
- “Should We Keep it in the Ground? A Welfare Analysis of Drilling on Public Lands”  
With Eva Lyubich
- “Nuclear Closures and Air Pollution”

## Service and Mentoring

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- 2015–20 ■ VITA tax preparation volunteer
- 2018–20 ■ Organize econometrics reading group
- 2018–20 ■ Berkeley Energy and Resources Collaborative department liaison
- 2018–19 ■ Berkeley Graduate Assembly department representative
- 2018–19 ■ Mentoring through Berkeley’s Students of Color in Economics
- 2018–20 ■ Chancellor’s Oversight Committee on Parking and Transportation
- 2018 ■ Mentoring through Berkeley’s [Student Mentoring and Research Teams](#)

## Awards

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- 2019–2021 ■ NBER Pre-doctoral Fellowship in Energy Economics
- 2018 ■ Sacheti Family Fellowship
- 2014 ■ “Extraordinary” personnel evaluation at the Federal Reserve Board
- 2013 ■ Michigan’s Ferrando Prize and Sims Scholarship in Economics

## Languages

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- Favorites ■ Python, R,  $\text{\LaTeX}$ , Git, *English* (native)
- Familiar ■ Stata, PostgreSQL, AWS, Bash, Google Earth Engine, SAS, *Spanish* (conversant)

## References

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- PhD Chair ■ Jim Sallee: [sallee@berkeley.edu](mailto:sallee@berkeley.edu)
- Committee ■ Meredith Fowlie: [fowlie@berkeley.edu](mailto:fowlie@berkeley.edu)
- Committee ■ Severin Borenstein: [severinborenstein@berkeley.edu](mailto:severinborenstein@berkeley.edu)