**Field exam study guide: ARE 261 Module 1**

The field exam will cover topics covered during lectures and paper discussions. Question format will be similar to previous years. Past exams should be available from Carmen. To prepare for the exam, review your lecture notes and related empirical papers which demonstrate applications. In what follows I list a subset of the papers referenced on the syllabus to focus on (in the order in which we covered them).

*Field experiments*

Fowlie, Meredith, Michael Greenstone, and Catherine Wolfram (2018). “Do Energy Efficiency Investments Deliver? Evidence from the Weatherization Assistance Program”, *Quarterly Journal of Economics*.

Greer K. Gosnell, John A. List, and Robert D. Metcalf (2020) "[The Impact of Managerial Practices on Employee Productivity: A Field Experiment with Airline Captains](https://www.journals.uchicago.edu/doi/abs/10.1086/705375)”. *Journal of Political Economy,* Vol 18(4).

Berkouwer, Susanna and Joshua Dean (2019). “Credit and Attention in the Adoption of Profitable Energy Efficient Technologies in Kenya.” UC Berkeley Working Paper.

Carranza, Eliana and Robyn Meeks (2020). “Energy Efficiency and Electricity Reliability”. *Review of Economics and Statistics.*

*Quasi-experimental research designs*

Chay, Kenneth and Michael Greenstone (2005). "[Does Air Quality Matter? Evidence from the Housing Market,](http://ideas.repec.org/a/ucp/jpolec/v113y2005i2p376-424.html)" *Journal of Political Economy*, University of Chicago Press, vol. 113(2), pages 376-424, April.

Deryugina, Tatyana, Garth Heutel, Nolan H. Miller, David Molitor, and Julian Reif. 2019. "The Mortality and Medical Costs of Air Pollution: Evidence from Changes in Wind Direction." *American Economic Review*, 109 (12): 4178-4219.

Cicala, Steve (2022) “Imperfect Markets versus Imperfect Regulation in U.S. Electricity Generation,” *American Economic Review.*

Davis, Lucas W. and Catherine D. Wolfram. 2012. “Deregulation, Consolidation and Efficiency: Evidence from U.S. Nuclear Power,” American Economic Journal: Applied Economics, 2012, 4(4), 194-225

Ito, Koichiro (2014). “Do Consumers Respond to Marginal or Average Price? Evidence from Nonlinear Electricity Pricing.” *American Economic Review*.

Hernandez-Cortes, Danae and Kyle Meng (2020). “Do Environmental Markets Cause Environmental Injustice? Evidence from California's Carbon Market”. NBER WP27205.

Lo Prete, Chiara, Ashis Tyagi, and Qingyu Xu (2021) “California’s cap-and-trade program and emission leakage in the Western Interconnection: comparing econometric and partial equilibrium model estimates”

Mansur, Erin and Glenn Sheriff (2021) “On the measurement of environmental inequality: Ranking emissions distributions generated by different policy instruments.” Forthcoming in the *Journal of the Association of Environmental and Resource Economists,* 6(5).

Discrete choice models

Burgess, Robin, Michael Greenstone, Nicholas Ryan, Anant Sudarshan (2020). “The Role of Decentralized Solar in Completing Indian Electrification”

Davis, Lucas (2021). “What Matters for Electrification? Evidence from 70 Years of US Home Heating Choices.

Revelt, David, and Kenneth Train (1998). “Mixed logit with repeated choices: households’ choices of appliance efficiency level.” *Review of Economics and Statistics* 80.4: 647-657.

Berry, Steve, James Levinsohn and Ariel Pakes (1995), " Automobile Prices in Market Equilibrium", Econometrica 63 (July 1995), 841-890.

Berry, Steven, James Levinsohn, and Ariel Pakes (2004). “Differentiated products demand systems from a combination of micro and macro data: The new car market.” *Journal of Political Economy* 112(1): 68-105.

Busse, Meghan R., Christopher R. Knittel, and Florian Zettelmeyer (2013). "Are Consumers Myopic? Evidence from New and Used Car Purchases." *American Economic Review*, 103(1): 220-56.

Grigolon, Laura, Mathias Reynaert, and Frank Verboven (2018). “Consumer Valuation of Fuel Costs and the Effectiveness of Tax Policy - Evidence from the European Car Market”, *American Economic Journal: Economic Policy*, vol. 10, n. 3, August 2018, pp. 193–225.

Ito, Koichiro and Shuang (2020) “Zhang Willingness to Pay for Clean Air: Evidence from Air Purifier Markets in China”. *Journal of Political Economy.*

Banzhaf, Spencer, Lala Ma, and Christopher Timmins (2019). “Environmental Justice: The Economics of Race, Place, and Pollution”. *Journal of Economic Perspectives*

Depro, Brooks, Christopher Timmins, and Maggie O’Neil (2015) "White Flight and Coming to the Nuisance: Can Residential Mobility Explain Environmental Injustice?," *Journal of the Association of Environmental and Resource Economists* 2, no. 3 (September 2015): 439-468**.**

Kuminoff, Nicolai V, V. Kerry Smith and Christopher Timmins (2013). "The New Economics of Equilibrium Sorting and Policy Evaluation Using Housing Markets." *Journal of Economic Literature*, 51(4): 1007-62.