

E599 Empirical Environmental Economics

Master in Economics
University of Mannheim

Fall Term 2016

Prof. Ulrich Wagner, PhD

This seminar covers recent empirical research in Environmental Economics, in particular on air pollution control. Each student will present a paper chosen from the reading list to the class and write a report critiquing the paper. The emphasis will be on identifying the central questions addressed in the paper, evaluating the methodology and data, and making suggestions for improvements and extensions.

Organizational Meeting: Tuesday, September 15 at noon in L9, 1-2, room 002
Block seminar: October 28 and 29, 9am-6 pm in L9, 1-2, room 002

Each paper can be assigned no more than once for presentation or refereeing. The assignment will be on a first come, first served basis.

Deadlines:

- Choose a paper to present by September 30.
- Submit your presentation by October 26, 7am
- Choose a paper to referee by November 15
- Submit your report by December 20

Evaluation criteria: Presentation (40%), report (40%), class room discussion (20%)

READING LIST (electronic copies available on ILIAS)

Air pollution control

Greenstone, M. (2002). "The Impacts of Environmental Regulations on Industrial Activity: Evidence from the 1970 and 1977 Clean Air Act Amendments and the Census of Manufactures." *Journal of Political Economy*, 110(6): 1175-1219.
<http://www.jstor.org/stable/10.1086/342808>

Walker, W.R. (2013). "The Transitional Costs of Sectoral Reallocation: Evidence from the Clean Air Act and the Workforce." *The Quarterly Journal of Economics*, 128(4): 1787-1835.
http://faculty.haas.berkeley.edu/rwalker/research/walker_transitional_costs_CAA.pdf

Auffhammer, M. and Kellogg, R. (2011). "Clearing the Air? The Effects of Gasoline Content Regulation on Air Quality." *American Economic Review*, 101(6): 2687-2722.
http://www.jstor.org/stable/23045655?seq=1#page_scan_tab_contents

Davis, L.W. (2008). "The Effect of Driving Restrictions on Air Quality in Mexico City." *Journal of Political Economy*, 116(1): 38-81.
<https://www.jstor.org/stable/10.1086/529398>

Wolff, H. (2014). "Keep Your Clunker in the Suburb: Low-emission Zones and Adoption of Green Vehicles." *The Economic Journal*, 124(578): F481-F512.
<http://onlinelibrary.wiley.com/doi/10.1111/eoj.12091/pdf>

Health impacts of air pollution

Currie, J. and Neidell, M. (2005). "Air Pollution and Infant Health: What Can We Learn from California's Recent Experience?" *The Quarterly Journal of Economics*, 120(3): 1003-1030.

http://www.jstor.org/stable/25098761?seq=1#page_scan_tab_contents

Chay, K.Y. and Greenstone, M. (2003). "The Impact of Air Pollution on Infant Mortality: Evidence from Geographic Variation in Pollution Shocks Induced by a Recession." *The Quarterly Journal of Economics*, 118(3): 1121-1167.

http://www.jstor.org/stable/25053932?seq=1#page_scan_tab_contents

Currie, J., Neidell, M. and Schmieder, J.F. (2009). "Air pollution and infant health: Lessons from New Jersey." *Journal of Health Economics*, 28(3): 688-703.

http://www.princeton.edu/~jcurrie/publications/Air_Pollution&Infant_Health_NJ.pdf

Foster, A., Gutierrez, E. and Kumar, N. (2009). "Voluntary Compliance, Pollution Levels, and Infant Mortality in Mexico." *American Economic Review*, 99(2): 191-197.

http://www.jstor.org/stable/25592398?seq=1#page_scan_tab_contents

Arceo, E., Hanna, R. and Oliva, P. (2014). "Does the Effect of Pollution on Infant Mortality Differ Between Developing and Developed Countries? Evidence from Mexico City." accepted at *The Economic Journal*.

<http://onlinelibrary.wiley.com/doi/10.1111/eoj.12273/abstract>

Schlenker, W. and Walker, W.R. (2016). "Airports, Air Pollution, and Contemporaneous Health." *The Review of Economic Studies*, 83(2): 768-809.

<http://restud.oxfordjournals.org/content/83/2/768>

Karlsson, M., Schmitt, M. and Ziebarth N.R. (2015). "The Short-Term Population Health Effects of Weather and Pollution." Working Paper.

<http://www.human.cornell.edu/pam/people/upload/2015-7-25-Health-Effects-of-Weather-and-Pollution.pdf>

Currie, J., Davis, L., Greenstone, M. and Walker, R. (2015). "Environmental Health Risks and Housing Values: Evidence from 1,600 Toxic Plant Openings and Closings." *American Economic Review*, 105(2): 678-709.

<https://www.aeaweb.org/articles.php?doi=10.1257/aer.20121656>

Greenstone, M. and Hanna, R. (2014). "Environmental Regulations, Air and Water Pollution, and Infant Mortality in India." *American Economic Review*, 104(10): 3038-3072.

http://scholar.harvard.edu/files/remahanna/files/10_aer_enviro_reg.pdf

Air quality and labor supply

- Hanna, R. and Oliva, P. (2015). "The effect of pollution on labor supply: Evidence from a natural experiment in Mexico City." *Journal of Public Economics*, 122: 68-79.
<http://www.sciencedirect.com/science/article/pii/S0047272714002096>
- Currie, J., Hanushek, E.A., Kahn, E.M., Neidell, M. and Rivkin, S.G. (2009). "Does Pollution Increase School Absences?" *The Review of Economics and Statistics*, 91(4): 682-694.
http://www.jstor.org/stable/25651370?seq=1#page_scan_tab_contents
- Graff Zivin, J. and Neidell, M. (2012). "The Impact of Pollution on Worker Productivity." *American Economic Review*, 102(7): 3652-3673.
http://www.jstor.org/stable/41724649?seq=1#page_scan_tab_contents
- Lavy, V., Ebenstein, A. and Roth, S. (2015) "The Long Run Economic Consequences of High-Stakes Examinations: Evidence from Transitory Variation in Pollution." *American Economic Journal: Applied Economics* (forthcoming).
https://www2.warwick.ac.uk/fac/soc/economics/staff/vlavy/ebenstein_lavy_roth_polluti_on_testscores_dec2015.pdf

Valuation of air quality

- Chay, K.Y. and Greenstone, M. (2005). "Does Air Quality Matter? Evidence from the Housing Market." *Journal of Political Economy*, 113(2): 376-424.
<http://www.jstor.org/stable/10.1086/427462>
- Bayer, P., Keohane, N. and Timmins, C. (2009). "Migration and Hedonic Valuation: The Case of Air Quality." *Journal of Environmental Economics and Management*, 58(1): 1-14.
<http://www.sciencedirect.com/science/article/pii/S0095069609000035>
- Timmins, C. (2007). "If You Can't Take the Heat, Get Out of the Cerrado... Recovering the Equilibrium Amenity Cost of Non-Marginal Climate Change in Brazil." *Journal of Regional Science*, 47(1): 1-25.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9787.2007.00497.x/pdf>
- Sieg, H., Smith, V.K., Banzhaf, H.S. and Walsh, R. (2004). "Estimating the General Equilibrium Benefits of Large Changes in Spatially Delineated Public Goods." *International Economic Review*, 45(4): 1047-1077.
http://www.jstor.org/stable/3663619?seq=1#page_scan_tab_contents
- Levinson, A. (2012). "Valuing public goods using happiness data: The case of air quality." *Journal of Public Economics*, 96(9-10): 869-880.
<http://www.sciencedirect.com/science/article/pii/S0047272712000709>
- Reif, J., Deryugina, T., Heutel, G., Miller, N., and Molitor, D. (2016). "The Mortality and Medical Costs of Air Pollution: Evidence from Changes in Wind Direction." *Working Paper*.
http://conference.iza.org/conference_files/environ_2016/reif_j24230.pdf