

12E006

Development Economics

Term 2 - 6 ECTS

Elective Course

Prof. A. Tarozzi

Prof. G. León

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**COURSE NAME** 12E006 Development Economics

**INSTRUCTORS** Part I: Alessandro Tarozzi, [alessandro.tarozzi@upf.com](mailto:alessandro.tarozzi@upf.com)  
 Office: Jaume I, 20.2E12, Office hours: by appointment  
 Part II: Gianmarco León-Ciliotta, [gianmarco.leon@upf.edu](mailto:gianmarco.leon@upf.edu)  
 Office: Jaume I, 20.2E16, Office hours: by appointment

**Class:** Monday and Wednesday 8:30-10:30am. Room 24.009

**TA Sessions** with Laurenz Baertsch, [laurenz.baertsch@upf.edu](mailto:laurenz.baertsch@upf.edu)

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TERM	Spring	ECTS	6	HOURS	40
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**OVERVIEW** The primary goal of this course is to provide an introduction to **the micro-economics of development**. Development Economics is an immense and exciting field that includes contributions from virtually all fields of Economics. We will thus have to make choices, and focus on a specific but still broad set of topics. The course will also cover in some details a number of key methodological issues that are essential to study such topics empirically, including in the context of Randomized Controlled Trials (RCTs).

The focus will be on empirical results and methodologies, so **a good working knowledge of econometrics is required**: you should have a solid understanding of the material on cross-section econometrics in a relatively basic textbook such as Stock and Watson.

We will mostly focus on *micro* topics. Of course there are also essential *macro* aspects of development economics, such as growth and trade, and if you are interested in them you should check out other courses.

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**SECTIONS** Weekly sections held by Laurenz Baertsch will be devoted to: (1) give you a primer on Stata and a brush up on econometrics; (2) review and complement material covered in class; (3) provide guidance on assignments.

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**EVALUATION SYSTEM** You are expected to read key papers, which will be identified prior to the class in which the papers will be discussed. Every student is expected to participate in all aspects of the class. While you will not be formally graded on your classroom participation, the value to you and your colleagues of asking questions and raising new ideas cannot be over-stated.

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**The formal evaluation will be based on a final exam and on a series of group**

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**projects. Each group can be composed of up to four students, and each project can be completed by a different group of students.** The overall grade will be determined as follows:

**30% Problem Sets.** There will be two problem sets, with a mix of empirical and methodological questions. The first PS is due on Jan 27<sup>th</sup> and the second on March 9<sup>th</sup>.

**20%: Group presentation.** Each group will do a presentation of an unpublished paper. The presentation is expected to (i) describe the research question and its relevance, (ii) mention the key contribution to the relevant literature, (iii) present the data and empirical strategy (or theoretical model), (iv) describe the results, (v) provide critical comments. In addition, each group should hand in a referee report on the paper. The format of a referee report will be discussed in the sections.

**50%: Final Exam.** This will be a **closed book** exam. The exam will ask you to both show your critical understanding of the literature covered in the course and your ability to think rigorously about specific problems. The final is on **April 1<sup>st</sup>, 10-13hrs.**

**Students enrolled in the Econ MRes will also be required to write one empirical project. Please discuss this with the professors.**

## COURSE OUTLINE

**The reading list is endless, but you are obviously not required to read everything.**

The 'starred' papers are required readings, and we will cover all of them in varying degrees of detail. In contrast, you are not expected to read the non-starred references, although we will sometimes discuss specific findings from these studies in class, and you are expected to know what we discuss in class. But these additional papers are only for your information in case you are interested in studying specific topics in more depth. Even so, countless more references could be added so if you wish to know about additional sources for your own enjoyment or professional/research agenda just let us know.

### BACKGROUND REFERENCES:

Banerjee, Abhijit and Esther Duflo (2011). *Poor Economics*. Public Affairs, NY.

Banerjee A. and E. Duflo (2009). "The Experimental Approach to Development Economics", *Annual Review of Economics* 1(1), 151-178.

Bardhan, Pranab and Christopher Udry. (2000). *Development Microeconomics*. Oxford

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University Press: New York.

Deaton, Angus (1997). *The Analysis of Household Surveys: A Micro-econometric Approach to Development Policy*. Johns Hopkins University Press: Baltimore, Maryland.

Deaton, Angus (2010). "Instruments, randomization, and learning about development", *Journal of Economic Literature*, 48(2): 424-455.

Deaton, Angus (2013). *The Great Escape: Health, Wealth, and the Origins of Inequality*. Princeton University Press.

Duflo, Esther, Rachel Glennerster, and Michael Kremer. (2006). "Using Randomization in Development Economics Research: A Toolkit", NBER Technical Working Paper #333 [http://www.nber.org/papers/t0333]

*Handbook of Development Economics*: Most chapters in Volumes I, III (A and B) and IV. Elsevier.

Ray, Debraj (1998) *Development economics*, Princeton University Press.

#### **SOME USEFUL REFERENCES FOR ECONOMETRICS**

Bertrand, M., E. Duflo, and S. Mullainathan. (2004). How much should we trust differences-in-differences estimates? *Quarterly Journal of Economics* 119, 249–276.

Brownstone and Valletta (2001), The Bootstrap and Multiple Imputations: Harnessing Increased Computing Power for Improved Statistical Tests. *Journal of Economic Perspectives*, 15(4), 129-141.

Bruhn, M. and D. McKenzie (2010). In pursuit of balance: Randomization in practice in development field experiments. *American Economic Journal: Applied Economics*, Volume 1, Number 4, October 2009 , 200-232.

Camerer and Miller (2013). A Practitioner's Guide to Cluster-Robust Inference. Forthcoming *Journal of Human Resources*.

Imbens, Guido and Jeff Wooldridge (2008) "Recent Developments in the Econometrics of Program Evaluation", NBER Working paper #14251.

Several blogs feature frequent discussions of new development working papers:

<http://blogs.worldbank.org/impactevaluations/>

<http://blogs.cgdev.org/globaldevelopment/>

<http://blogs.cgdev.org/globalhealth/>

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<http://africacan.worldbank.org/>  
<http://psdblog.worldbank.org/psdblog/>  
<http://chrisblattman.com/>  
<http://karengrepin.blogspot.com/>  
<http://www.owen.org/>  
<http://sahelblog.wordpress.com/>  
<http://marcfbellemare.com/wordpress/>

#### READING LIST

#### PART 1: GIANMARCO LEÓN-CILIOTTA

#### LECTURES 1 AND 2: RETURNS TO EDUCATION, CONSTRAINTS TO HUMAN CAPITAL ACCUMULATION (JANUARY 8<sup>TH</sup> AND 13<sup>TH</sup>)

\* PE, Chapter 4

- Duflo, Esther. (2001). "Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence from an Unusual Policy Experiment," *American Economic Review*, 91(4), 795-813. (understand well the methodology)
- Krueger, Alan and Mikael Lindahl. (2001). "Education for Growth: Why and For Whom?" *Journal of Economic Literature*, 39 (4), 1101-1136. (Focus on the main insights, basically the intro and conclusion)
- Muralidharan, Karthik and Venkatesh Sundararaman. (2011). "Teacher Performance Pay: Experimental Evidence from India", *Journal of Political Economy*. (all of it)
- Jensen, Robert (2010). "The (Perceived) Returns to Education and the Demand for Schooling," *Quarterly Journal of Economics*, 125(2), 515-548. (understand the main mechanisms and the model in the appendix)
- Baird, Sarah, Craig McIntosh, and Berk Ozler. (2011). "Cash or condition? Evidence from a Randomized Cash Transfer Program", *Quarterly Journal of Economics*, 126(4), 1709-1753. (read all of it)
- Kremer, Michael, Rebecca Thornton, and Edward Miguel. (2008). "Incentives to Learn", *Review of Economics and Statistics*. (only what is in the slides)

#### Additional readings

- Banerjee, Abhijit V., Shawn Cole, Esther Duflo, and Leigh Linden. (2007). "Remedying Education: Evidence from Two Randomized Experiments in India", *Quarterly Journal of Economics*, 122(3), 1235-1264. [<http://www.mitpressjournals.org/doi/abs/10.1162/qjec.122.3.1235>]
- Jensen, Robert. 2012. "Do Labor Market Opportunities Affect Young Women's Work and Family Decisions? Experimental Evidence from India," *Quarterly Journal of Economics*, 127(2): 753-792.
- Jayachandran, Seema and A. Lleras-Muney. 2009. "Life Expectancy and Human Capital

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Investments: Evidence from Maternal Mortality Declines," Quarterly Journal of Economics, 124(1): 349-397.

**LECTURE 3: RESOURCE ALLOCATION AND FIRM PRODUCTIVITY  
(JANUARY 15<sup>TH</sup>)**

Hsieh, Chang-Tai, and Peter Klenow. (2007). "Misallocation and Manufacturing TFP In China and India", Quarterly Journal of Economics. (main insights, motivations and findings, basically intro and conclusions)

Bloom, Nicholas, Benn Eifert, Aprajit Mahajan, David McKenzie, and John Roberts (2013). "Does Management Matter? Evidence from India." Quarterly Journal of Economics 128(1): 1-51. (all)

McKenzie, David, and Chris Woodruff. (2007). "Returns to Capital in Microenterprises: Evidence from a Field Experiment", Quarterly Journal of Economics, 123(4), 1329-1372. (what is in the slides + measurement)

Atkin et. al. (2017). (What is in the slides + intro of the paper)

**Additional readings**

Goldstein, Markus and Chris Udry. 2008. "The Profits of Power: Land Rights and Agricultural Investment in Ghana," Journal of Political Economy, 116(6): 981-1022.

Bardhan, Pranab and Chris Udry. 1999. "Household Economics," chapter 2 in Development Microeconomics. Oxford University Press. 8-18.

Udry, Christopher. 1996. "Gender, Agricultural Production, and the Theory of the Household," Journal of Political Economy, 104(5): 1010-104.

Hsieh, Chang-Tai and Peter J. Klenow. 2012. "The Life Cycle of Plants in India and Mexico".

**LECTURE 4: LABOR MARKETS AND MIGRATION  
(JANUARY 20<sup>TH</sup>)**

Bryan, Gharad, Shyamal Chaudhuri, and A. Mushfiq Mobarak (2014), "Under-investment in a Profitable Technology: The Case of Seasonal Migration in Bangladesh," Econometrica. (all)

Imbert, Clement and John Papp (2016) "Short-term Migration, Rural Workfare Programs and Urban Labor Markets: Evidence from India" (slides)

**Additional readings**

Banerjee, Abhijit, and Andrew Newman. (1998). "Information, the Dual Economy, and Development", Review of Economic Studies, 65 (4), 631-653.

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- Rosenzweig, Mark. (1988). "Chapter 15: Labor markets in low-income countries", Handbook of Development Economics Vol 1, Hollis Chenery and T.N. Srinivasan (ed.s). [<http://econpapers.repec.org/bookchap/eedevhes/1.htm>]
- Yang, Dean (2006), "Why Do Migrants Return to Poor Countries? Evidence from Philippine Migrants' Responses to Exchange Rate Shocks," *Review of Economics and Statistics*, 88(4), pp. 715-735.
- McKenzie, David, Caroline Theoharides, and Dean Yang (2011), "Distortions in the International Migrant Labor Market: Evidence from Filipino Migration and Wage Responses to Destination Country Economic Shocks," *American Economic Journal: Applied Economics*.
- Munshi, Kaivan, and Mark Rosenzweig. (2006). "Traditional Institutions Meet the Modern World: Caste, Gender, and Schooling in a Globalizing Economy", *American Economic Review*, 96(4), 1225-1252.
- Mckenzie, David and Hillel Rapoport (2010), "Self-Selection Patterns in Mexico-U.S. Migration: The Role of Migration Networks," *Review of Economics and Statistics*, 92(4), pp. 811-821.
- Woodruff, Christopher and Rene Zenteno, "Migrant Networks and Microenterprises in Mexico," *Journal of Development Economics*, 82(2), 2007, pp. 509-528.

**LECTURE 5: PERSONNEL ECONOMICS OF THE STATE  
 (JANUARY 22<sup>ND</sup>)**

- Khan, Adnan Q., Asim I. Khwaja, and Benjamin A. Olken. 2016. "Tax Farming Redux: Experimental Evidence on Performance Pay for Tax Collectors." *Quarterly Journal of Economics*. (slides)
- Frederico Finan, Benjamin A. Olken, and Rohini Pande (2017) "The Personnel Economics of the State" (all)
- Dal Bó, Ernesto, Frederico Finan, and Martín A. Rossi. 2013. "Strengthening State Capabilities: The Role of Financial Incentives in the Call to Public Service." *Quarterly Journal of Economics* 128 (3): 1169- 1218. (slides + motivation + measurement of main variables and main results)

**Additional readings**

- Callen, Michael, Saad Gulzar, Ali Hasanain, Yasir Khan, and Arman Rezaee. 2015. "Personalities and Public Sector Performance: Evidence from a Health Experiment in Pakistan." NBER Working Paper 21180.
- Ashraf, Nava, Oriana Bandiera, and B. Kelsey Jack. 2014. "No Margin, No Mission? A Field Experiment on Incentives for Public Service Delivery." *Journal of Public Economics* 120: 1-17.
- Rasul, Imran and Daniel Rogger. 2015. "Management of Bureaucrats and Public Service Delivery: Evidence from the Nigerian Civil Service." Working Paper.
- Deserranno, Erika. 2015. "Financial Incentives as Signals: Experimental Evidence from the Recruitment of Health Workers." Working Paper.

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Dhaliwal, Iqbal and Rema Hanna. 2014. "Deal with the Devil: The Successes and Limitations of Bureaucratic Reform in India." NBER Working Paper 20482.

Hanna, Rema and Shing-Yi Wang. 2014. "Dishonesty and Selection into Public Service: Evidence from India." NBER Working paper 19649.

Bandiera, Oriana, Michael Best, Adnan Khan, and Andrea Prat. 2015. "Motivating Bureaucrats: Autonomy vs. Performance Pay for Public Procurement in Pakistan." Ongoing.

Bénabou, Roland, and Jean Tirole. 2006. "Incentives and Prosocial Behavior." *American Economic Review*, 96 (5): 1652-1678.

Besley, Timothy and Maitreesh Ghatak. 2005. "Competition and Incentives with Motivated Agents." *American Economic Review* 95 (3): 616-636.

Duflo, Esther, Rema Hanna, and Stephen P. Ryan. 2012. "Incentives Work: Getting Teachers to Come to School." *American Economic Review* 102 (4): 1241-1278.

**LECTURE 6: DEMOCRACY, ACCOUNTABILITY AND DEVELOPMENT  
(JANUARY 27<sup>TH</sup>)**

Acemoglu, Daron, Suresh Naidu, Pascual Restrepo, James Robinson (2015) "Democracy does cause growth," *Journal of Political Economy*. (motivation + measurement of main variables + main findings)

Ferraz & Finan AER 2011 (all)

Ferraz, Claudio, and Fred Finan. (2008). "Exposing Corruption politicians: The Effects of Brazil's Publicly Released Audits on Electoral Outcomes", *Quarterly Journal of Economics*, 123(2), 703-745. (slides)

**Additional readings**

Martinez Bravo et al – democracy in china and public good provision

Dal Bó, Pedro, Andrew Foster, Louis Putterman (2010) "Institutions and Behavior: Experimental Evidence on the Effects of Democracy", *American Economic Review*, 100(5), 2205-2229.

Acemoglu, Daron, Simon Johnson, James Robinson, and Pierre Yared. (2008). "Income and Democracy", *American Economic Review*, 98(3), 808-842.

Casey, Katherine, Rachel Glennerster, and Edward Miguel. (2012). "Reshaping institutions: Evidence on aid impacts using a pre-analysis plan", *Quarterly Journal of Economics*, 127(4), 1755-1812.

**LECTURE 7: THE POLITICAL ECONOMY OF CIVIL CONFLICT**



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(JANUARY 29<sup>TH</sup>)

- Dube, Oeindrila and Juan Vargas (2011) "Commodity Price Shocks and Civil Conflict: Evidence from Colombia". *Review of Economic Studies* (all)
- Powell, Robert. (2006). "War as a Commitment Problem", *International Organization*, 60, 169-203. (introduction, conclusions + slides)

**Additional readings**

- Miguel, Edward, Shanker Satyanath, and Ernest Sergenti. (2004). "Economic Shocks and Civil Conflict: An Instrumental Variables Approach", *Journal of Political Economy*, 112(4), 725-753. [Read also the critique by Ciccone et al and the response by Miguel et al]
- Blattman, Christopher and Edward Miguel (2010). "Civil War", *Journal of Economic Literature*, 48(1): 3-57.
- Hsiang, Solomon, Marshall Burke, and Edward Miguel. (2013). "Quantifying the Influence of Climate on Human Conflict", *Science*, 10.1126/science.1235367.
- Besley, Timothy and Torsten Persson (2010) "State Capacity, Conflict and Development", *Econometrica*, 78, 1-34.
- Davis, Donald R., and David Weinstein. (2002). "Bones, Bombs, and Breakpoints: The Geography of Economic Activity", *American Economic Review*, 92(5).
- Chassang, Sylvain, and Gerard Padro-i-Miquel. (2007). "Mutual Fear and Civil War", unpublished working paper.
- Chassang, Sylvain, and Gerard Padro-i-Miquel. (2010). "Economic Shocks and Civil War", *Quarterly Journal of Political Science*, 4(3), 211-228.
- Grossman, Herschell I. (1991). "A General Equilibrium Model of Insurrections", *American Economic Review*, 81(4), 912-921.
- Fearon, James (1995), "Rationalist Explanations for War," *International Organization* 49, 379-414.
- Dal Bo, Ernesto and Pedro Dal Bo (2004), "Workers, Warriors, and Criminals: Social Conflict in General Equilibrium", mimeo, UC Berkeley.
- Ellman, Matthew, and Leonard Wantchekon. (2000). "Electoral Competition under the Threat of Political Unrest", *Quarterly Journal of Economics*, 115(2), 499-531.
- Esteban, Joan and Debraj Ray (2008), "On the Saliency of Ethnic Conflict", *American Economic Review* 98 (5), pp. 2185-2202.
- Caselli, Francesco and John Coleman (2006), "On the Theory of Ethnic Conflict," mimeo, LSE.
- World Bank. 2003. "Chapter 1: Civil War as Development in Reverse." In *Breaking the Conflict Trap*, p13-32.
- Collier, Paul. 2009. "Development in Dangerous Places: A Forum on Global Poverty and Intervention." *Boston Review*, Not in reader, but can be accessed online,



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<http://new.bostonreview.net/BR34.4/collier.php>

**LECTURE 8: ETHNIC AND SOCIAL DIVISIONS  
(FEBRUARY 3<sup>RD</sup>)**

Burgess, Robin, Remi Jedwab, Edward Miguel, Ameet Morjaria, Gerard Padro-i-Miquel. (2015). "The Value of Democracy: Evidence from Road Building in Kenya", forthcoming American Economic Review. (all)

Hjort, Jonas. (2014). "Ethnic Divisions and Production in Firms", Quarterly Journal of Economics, 1899-1946. (intro + conclusions + main insights)

Easterly, William, and Ross Levine. (1997). "Africa's growth tragedy: policies and ethnic divisions", Quarterly Journal of Economics, 112 (4), 1203-1250. (Main Insights)

**Additional readings**

Miguel, Edward. (2004). "Tribe or Nation? Nation-building and Public Goods in Kenya versus Tanzania", World Politics, 56, 327-362.

Rao, Gautam. (2017). "Familiarity does not breed contempt: Diversity, Discrimination and Generosity in Delhi Schools", unpublished working paper. [<https://sites.google.com/site/graoeconomics/>]

Habyarimana, James, Macartan Humphreys, Daniel Posner, and Jeremy Weinstein. (2007). "Why Does Ethnic Diversity Undermine Public Goods Provision? An Experimental Approach", American Political Science Review, 101(4), 709-725.

Pande, Rohini. (2003). "Can Mandated Political Representation Increase Policy Influence for Disadvantaged Minorities? Theory and Evidence from India," American Economic Review, 93(4), 1132-1151.

**FEBRUARY 5<sup>TH</sup> AND 10<sup>TH</sup>: STUDENT PRESENTATIONS (THIS WILL LIKELY CHANGE)**

**PART 2: ALESSANDRO TAROZZI**

Below PE is a shortcut for "Poor Economics."

**ECONOMIC DEVELOPMENT AND NUTRITION  
LECTURES 9 & 10**

\* PE, Chapter 2.

\* Subramanian, S. and Angus Deaton (1996). "The Demand for Food and Calories." *Journal of*

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*Political Economy* 104(1), 133-162.

\* Deaton, Angus and Jean Drèze (2009). "Food and Nutrition in India: Facts and Interpretations", *Economic and Political Weekly*, v. 44, no. 7, pp. 42-65.

\* Fogel, Robert W. 1994, "Economic Growth, Population Theory, and Physiology: The Bearing of Long-Term Processes on the Making of Economic Policy", *The American Economic Review*. 84.3: 369-395.

**Additional readings**

Atkin (2016). "The caloric cost of culture: evidence from Indian migrants." *American Economic Review* 106(4): 1144–1181.

Behrman, Jere R., and Deolalikar, Anil B. (1987). "Will Developing Country Nutrition Improve with Income? A Case Study for Rural South India." *Journal of Political Economy* 95, 108-38.

Bouis, Howarth E., and Haddad, Lawrence J. (1992). "Are Estimates of Calorie-Income Elasticities Too High? A Recalibration of the Plausible Range." *Journal of Development Economics*. 39, 333-64.

Duh and Spears (2016). "Health and hunger: Disease, energy needs, and the Indian calorie consumption puzzle." Forthcoming *The Economic Journal*.

Eli S and N Li (2015). "Caloric requirements and food consumption patterns of the poor." NBER Working Paper 21697.

Jensen and Miller (2008). "Giffen Behavior and Subsistence Consumption", *American Economic Review* 98(4), 1553–1577.

Jensen, Rob and Nolan Miller. 2011. "Do Consumer Price Subsidies Really Improve Nutrition?" *Review of Economic Statistics*. 93(4), 1205-1223.

Jensen and Miller (2010) "A revealed preference approach to measuring hunger and undernutrition", *NBER Working Paper* 16555.

Strauss, John (1986). "Does Better Nutrition Raise Farm Productivity?" *Journal of Political Economy* 94, 297–320.

Tarozzi A. (2008). Growth Reference Charts and the Nutritional Status of Indian Children, *Economics and Human Biology*, 6(3), 455-468.

Tarozzi A. (2011) Some Facts about Boy vs. Girl Health Indicators in India: 1992 to 2005. *CESifo Economic Studies*, 58(2), 296-321.

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Tarozzi A. and A. Mahajan (2007). Child Nutrition in India in the Nineties. *Economic Development and Cultural Change*. 55(3), 441-486.

**THE CAUSAL PATHWAY FROM HEALTH TO WEALTH  
 LECTURES 11 & 12**

\* PE, Chapter 2.

\* Godfrey, Keith and David Barker. 2000. "Fetal nutrition and adult disease", *American Journal of Clinical Nutrition*, 71(suppl):1344S-1352S.

\* Crimmins, Eileen and Finch, Caleb. 2006. "Infection, inflammation, height and longevity", *Proceedings of the National Academy of Science*, 103.2: 498-503.

\* Deaton, Angus. 2007. Height, health, and development. *Proceedings of the National Academy of Sciences*, 104.33:13232 – 13237.

\* Hoddinott, Maluccio, Behrman, Flores and Martorell (2008). "Effect of a nutrition intervention during early childhood on economic productivity in Guatemalan adults". *Lancet*. 371, 411-416.

\* Maccini, Sharon and Dean Yang (2009). "Under the weather: Health, schooling and economic consequences of early life rainfall." *American Economic Review* 99(3), 1006-36.

\* Strauss, J. and D. Thomas. 2008. "Health over the life course" in T. Paul Schultz and John Strauss, (eds.), *Handbook of Development Economics Volume 4*, Chapter 54, 3375-3474, 2008, Elsevier Press. **NOTE:** You do not need to read Ch. 2.2, 2.3 and from 4.2 onwards.

\* Thomas, Duncan, Frankenberg, Elizabeth, Friedman, Jed, Habicht, Jean-Pierre, Ingwersen, Nicholas, McKelvey, Christopher, Hakimi, Mohammed, Jaswadi, Pelto, Gretel, Sikoki, Bondan, Seeman, Teresa, Smith, James P., Sumantri, Cecep, Suriastini, Wayan and Wilopo, Siswanto (2006). "Causal effect of health on labor market outcomes: Experimental evidence", Working Paper.

**Additional readings:**

Almond, Douglas. 2006. "Is the 1918 Influenza pandemic over? Long-term effects of *in utero* exposure in the post-1940 US population", *Journal of Political Economy*, 114.4:672-712.

Baird, Sara, Joan Hicks, Michael Kremer and Edward Miguel (2015). "Worms at Work: Long-

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run Impacts of Child Health Gains", NBER Working Paper 21428.

Behrman, Jere R. and Rosenzweig, Mark R. 2004. "Returns to birthweight", *Review of Economics and Statistics*, 86.2:586-601.

Bleakley, Hoyt (2007). "Disease and development: Evidence from hookworm eradication in the American south." *Quarterly Journal of Economics*, February, 122.1.

Bleakley, Hoyt (2010). "Malaria Eradication in the Americas: A Retrospective Analysis of Childhood Exposure." *American Economic Journal: Applied Economics*, 2(2): 1-45.

Bozzoli, C., Angus Deaton and Climent Quintana-Domeque (2009). "Adult Height and Childhood Disease," *Demography*. 46(4): 647–669.

Brown, Ryan and Duncan Thomas (2016). "On the Long Term Effects of the 1918 US Influenza Pandemic". Working Paper, Duke University.

Case, Anne and Christina Paxson. 2008. "Stature and status: Height ability and labor market outcomes", *Journal of Political Economy*, 116(3), 499-532.

Field, E. O. Robles and M. Torero (2009). "Iodine deficiency and schooling attainment in Tanzania." *American Economic Journal: Applied Economics*, 1.4:140-69.

Gertler, Shah, Alzua, Cameron and Martinez (2015). "How Does Health Promotion Work? Evidence from the Dirty Business of Eliminating Open Defecation." NBER Working Paper 20997.

Miguel, Edward and Michael Kremer (2004). "Worms: Identifying Impacts on Education and Health in the Presence of Treatment Externalities", *Econometrica*, 72(1), 159-217.

Pitt, M, M Rosenzweig and N Hassan (2015). "Identifying the hidden costs of a public health success: Arsenic well water contamination and productivity in Bangladesh." NBER Working Paper 21741.

**POOR HEALTH IN POOR COUNTRIES: A PROBLEM OF DEMAND OR A PROBLEM OF SUPPLY?**

**LECTURES 13 & 14**

\* PE, Chapter 3.

\* Ashraf, Nava, James Berry and Jesse Shapiro (2010). "Can Higher Prices Stimulate Product Use?," *American Economics Review* 100(5), 2383-2413.

\* Banerjee, Abhijit, Angus Deaton, and Esther Duflo (2004). "Wealth, Health, and Health

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Services in Rural Rajasthan" *American Economic Review*, 94.2, 326-330.

- \* Das and Hammer (2007). "Money for nothing. The dire straits of medical practice in Delhi, India", *Journal of Development Economics*, 83(1), 1-36.
- \* Frederick, S., G. Loewenstein, and E. D. O'Donoghue (2002). "Time discounting: A critical review." *Journal of Economic Literature* 40 (2), 351–401. Only Sections 4 and 5.
- \* Kremer, Michael and Alaka Holla (2008). "Pricing and Access: Lessons from Randomized Evaluation in Education and Health", Working Paper.
- \* Tarozzi, Mahajan, Blackburn, Kopf, Krishnan and Yoong (2014). "Micro-loans, bednets and malaria: Evidence from a randomized controlled trial in Orissa (India)." *American Economic Review* 104(7), 1909-1941.

**Additional readings:**

- Adhvaryu, Achyuta (2014). "Learning, Misallocation, and Technology Adoption: Evidence from New Malaria Therapy in Tanzania." *Review of Economic Studies* 81(4), 1331-1365.
- Björkman-Nyqvist, M, J Svensson and D Yanagizawa-Drott (2013). "Can Good Products Drive Out Bad? Evidence from Local Markets for (Fake?) Antimalarial Medicine in Uganda". Working Paper.
- Cohen, Jessica and Pascaline Dupas (2010). "Free Distribution or Cost-Sharing? Evidence from a Randomized Malaria Prevention Experiment." *Quarterly Journal of Economics*, 125(1), 1-45.
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#### **MARCH 9-11 STUDENT PRESENTATIONS**