

Syllabus Fall 2020
Harvard Kennedy School of Government
Harvard University

**ECONOMIC DEVELOPMENT: THEORY, EVIDENCE AND POLICY DESIGN
DEV-101**

Class in Fall 2020: Mon/Wed 9:00-10:15am Eastern Time (EST)
Fall Review Sessions: Wednesday, 12.30-1.15pm EST

First day of class is Wednesday, September 2nd, 2020

Professor Eliana Carranza

Office hours:
Wednesdays, 11.30-12:30 or by appointment
(sign up [here](#))

Assistant: Kevin Drumm,
kdrumm@hks.harvard.edu

Professor Dani Rodrik

Office hours:
Tuesdays, 10-11:30 or by appointment
(sign up [here](#))

Assistant: Jessica De Simone,
jessica_de_simone@hks.harvard.edu

COURSE INFORMATION

DEV-101 is a semester-long course that evaluates theories of economic (under)development and scrutinizes empirical evidence to understand key features of the economic development processes across countries. The course will utilize analytical frameworks, grounded in economic theory, that examine the determinants of (a) factor accumulation by individuals, firms and societies, and (b) productivity and efficiency of resource allocation across activities and time. Drawing on empirical evidence on individual and societal behavior, we will evaluate the relevance of these frameworks for diagnosing root causes of economic development. We will use country illustrations and mini case studies to develop an understanding of how the judicious use of theory and empirics can provide guidance for economic policy reforms. The course is organized along the following broad sections: (i) a methodological overview, with an emphasis on analytical frameworks for understanding economic growth, factor accumulation and institutional outcomes; (ii) an historical overview of comparative economic development, with focus on the Industrial Revolution, the Great Divergence, and colonialism; (iii) individual determinants and returns to investment in human capital (health and education), and financial capital (credit markets, savings behavior), and constraints to factor accumulation; (iv) determinants of productivity, with emphasis on resource misallocation within and across households/firms, poverty traps, learning and coordination and their impacts on productivity; (v) principles of economic reform and introduction to policy design.

Teaching fellow:

Shweta Bhogale sbhogale@g.harvard.edu

Office Hours:

Wed-Thurs, Time: TBD

Course assistants:

Roukaya El Houda
Alex Domash
Eki Ramadhan

Office Hours: TBD

COURSE REQUIREMENTS AND GRADING

General requirements

Students are expected to prepare for each class by doing the required readings (see below) and watching the pre-class video (if any) for that class, available on Canvas.

Grading rubric

| Component | Grade X Unit | Total Grade |
|-------------|--------------|-------------|
| Quizzes | 5 x 7 | 35 |
| Assignments | 10 x 2 | 20 |
| Midterm | | 20 |
| Final | | 25 |
| Total | | 100 |

Assignments and exams

The assignments and exams will test understanding of concepts taught in pre-class videos, class lectures and discussions, and required readings (covered in class), and the ability to apply these insights to policy situations. We will have two long assignments and seven shorter quizzes. Assignments and quizzes must be submitted online on Canvas before the scheduled time. Points will be deducted for late assignments. (However, if you face technical difficulties in submitting then get in touch with the teaching team immediately.)

Regrading policy

On receiving your exam or assignment score, look carefully through the suggested answers and comments provided by the teaching team. Students who still wish to give their answer sheets for regrading, should write a detailed email to the teaching team explaining their reason to contest a score **within one week** from the date that the graded assignment is returned to the class. The teaching team will assign a different grader from the original one and re-evaluate the **entire** assignment/exam and determine whether a change in points is mandated across any question, including the ones not highlighted/contested by the student. This process may take up to a week and the outcome will be final. Keep in mind, that the teaching team puts in a great deal of thought and effort in their assessments and you are encouraged to be cautious/prudent in raising a re-grading issue.

TF review sections

The live review section will be every Wednesday 12.30-1.15 pm EST. They will go over concepts covered in class that may need more elaboration/discussion. As and when required, they will cover short summaries of additional empirical work that is closely related to what we have studied and can help in expanding your knowledge base. The additional material covered can enrich your responses to questions in the exams or problem sets but it will not be directly tested upon and you are not required to read the papers on which it will be based. The live section will be recorded, indexed for topic, and uploaded to Canvas by 5 pm, every Wednesday. The TF will hold office hours on Wednesdays nights EST (time TBD), in case any students would like to go over section content.

READING LIST INFORMATION

The reading list below includes the URLs for those papers that can be downloaded from the internet. The majority of the papers and articles for this course are available on the Canvas site. If the links become broken then you can find the articles by searching Harvard library's E-Journals using the following link: http://sfx.hul.harvard.edu/sfx_local/az/. Type in the journal name and select a database

that has issues for the year of the article. Each database is set up differently, but the citation will have all the information necessary to obtain the article.

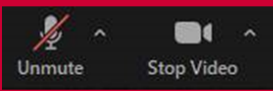
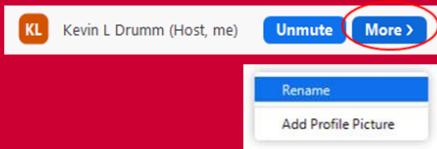
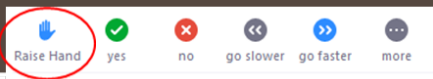
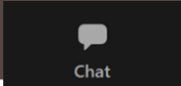
All required reading for this course is available on the class page on Canvas. ***Please check Canvas frequently for announcements and other information.***

Readings marked with ** are required readings for this class. These are usually papers that set the tone for a module or provide an overarching understanding of the material that will be covered in class. Readings with * are readings that are strongly recommended; these will deepen your understanding of the material and will provide you with additional material you can use in writing better answers in exams. Some readings without any stars may also be referred to in the lectures or review sessions. These papers may be important examples of the material being discussed and contribute towards enriching your knowledge on the topic. While you don't need to read these papers, you will be expected to know their content to the extent that is covered in the lectures and review sessions. Keep in mind that the goal of the syllabus is to create a resource for you that you can use to extend the breadth and depth of your knowledge on development economics throughout your MPAID studies and beyond.

ELIGIBILITY

The class is a core requirement for students in the MPA/ID program. Non-MPA/ID students will not be admitted to the course. Auditors are not allowed.

ZOOMROOM POLICY

| | |
|--|--|
| <p>START VIDEO, MUTE AUDIO</p> <ul style="list-style-type: none"> Unless you have a good reason not to, please keep your video on. Be prepared to unmute yourself when you are called upon. | <p>UPDATE YOUR SCREEN NAME</p> <ul style="list-style-type: none"> Display your full name and country of origin. Example: Carol Finney (USA) |
|  |  |
| <p>TO ASK TO SPEAK, USE THE 'RAISE HAND' FEATURE</p> <ul style="list-style-type: none"> Located in the Participants tab. Make sure to 'lower hand' after your question is answered. | <p>USE OF CHAT</p> <ul style="list-style-type: none"> Use publicly only for comments/questions directly related to the discussion |
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ACADEMIC INTEGRITY

Students are encouraged to work together and discuss class material and assignments. What is important is the eventual understanding of material achieved, and less about how that is achieved. Any exam, paper or assignment you submit is presumed to be your own original work, so if you do – as you will – use words or ideas written by other people, please make sure to cite these appropriately, and to indicate other students with whom you have collaborated. More information about Harvard's policies on academic integrity may be found in the Student Handbook

IMPORTANT DATES AND COURSE STRUCTURE

| | Day | Date | Topic | Professor |
|--|-----|---------|---|-----------|
| Part 1: Introduction and framework | | | | |
| 1 | Wed | Sept 2 | Doing development policy: Our approach | DR |
| | Fri | Sept 4 | Case Discussion in DEV-401: COVID-19 <i>Quiz #1 – Send in your response by 5pm</i> | |
| 2 | Wed | Sept 9 | Productivity: Proximate and deep determinants | DR |
| Part 2: History and comparative development | | | | |
| 3 | Fri | Sept 11 | The Industrial Revolution and its sources | DR |
| | Fri | Sept 11 | <i>Quiz #2 – Send in your response by 5pm</i> | |
| 4 | Mon | Sept 14 | Colonialism, the great divergence, and its present-day ramifications | DR |
| 5 | Wed | Sept 16 | Recent patterns of economic growth in the developing world | DR |
| | Fri | Sept 18 | <i>Assignment #1 – Growth accounting exercise due at 8.30am</i> | |
| Part 3: Factor Accumulation | | | | |
| 6 | Mon | Sept 21 | Physical capital: Investment, intermediation and saving (1) | EC |
| 7 | Wed | Sept 23 | Physical capital: Investment, intermediation and saving (2) | EC |
| | Fri | Sept 25 | <i>Quiz #3 – Send in your response by 5pm</i> | |
| 8 | Mon | Sept 28 | Human capital: Education (1) | EC |
| 9 | Wed | Sept 30 | Human capital: Education (2) | EC |
| | Fri | Oct 2 | Case Discussion in DEV-401: Education and the challenge of service delivery in India <i>Quiz #4 – Send in your response by 5pm</i> | |
| 10 | Mon | Oct 5 | Human capital: Health (1) | EC |
| 11 | Wed | Oct 7 | Human capital: Health (2) | EC |
| Part 4: Productivity growth | | | | |
| 12 | Wed | Oct 14 | Microeconomics and technology adoption | EC |
| 13 | Mon | Oct 19 | Misallocation, learning and coordination (1) | DR |
| 14 | Wed | Oct 21 | MIDTERM | |
| | Fri | Oct 23 | Case Discussion in DEV-401: Risk management and social protection in Ethiopia <i>Quiz #5 – Send in your response by 5pm</i> | |
| 15 | Mon | Oct 26 | Misallocation, learning and coordination (2) | DR |
| 16 | Wed | Oct 28 | Land: Misallocation, productivity and policy | EC |
| | Fri | Oct 30 | <i>Assignment #2 – Factor accumulation due at 8.30 am</i> | |
| 17 | Mon | Nov 2 | Labor: Misallocation, productivity and policy | EC |
| 18 | Wed | Nov 4 | Productive development policies | DR |
| | Fri | Nov 6 | <i>Quiz #6 – Send in your response by 5pm</i> | |
| Part 5: Economic reform | | | | |
| 19 | Mon | Nov 9 | Analytics of economic reform: Theory of second best | DR |
| | Fri | Nov 13 | <i>Quiz #7 – Send in your response by 5pm</i> | |
| 20 | Mon | Nov 16 | Analytics of economic reform: Diagnostics in practice | DR |
| 21 | Wed | Nov 18 | Political economy of institutions | DR |
| | Fri | Nov 20 | Case Discussion in DEV-401: Political economy of development (India, Colombia, China, or tbd) | |
| 22 | Mon | Nov 23 | Political economy of ideas and interests | DR |
| Part 6: The global context | | | | |
| 23 | Mon | Nov 30 | International institutions, the world economy, and development | DR |
| 24 | Wed | Dec 2 | Wrap-up | EC/DR |
| | Wed | Dec 9 | FINAL EXAM (8-11am) | |

COURSE OUTLINE AND READINGS

**** = required readings (before lecture); * = strongly recommended readings;
no stars = additional reading for further background**

Most required readings are available online (by clicking on the title). Required readings that are not linked in this syllabus can be found on Canvas.

PART 1: INTRODUCTION AND FRAMEWORK

1. Doing development policy: Our approach (Sept 2, DR)

** Rodrik, Dani. 2009. "[The New Development Economics: We Shall Experiment, but How Shall we Learn?](#)" in J. Cohen and W. Easterly, eds., *What Works in Development? Thinking Big and Thinking Small*, Brookings Institution Press, Washington, DC.

* Page, Lucy and Rohini Pande. 2018. "[Ending Global Poverty: Why money isn't enough](#)," *Journal of Economic Perspectives*, 32(4): 173-200.

World Bank. 2020. "[Projected Poverty Impacts of COVID-19](#)." June 18.

Mkandawire, Thandika. 2010. "[How the New Poverty Agenda Neglected Social and Employment Policies in Africa](#)." *Journal of Human Development and Capabilities*, 11 (1). pp. 37-55.

Thorbecke, Erik. 2019. "[The History and Evolution of the Development Doctrine, 1950-2017](#)," in M. Nissanke and J. Ocampo, eds., *The Palgrave Handbook of Development Economics*, 61-108.

Milanovic, Branko. 2012. "[Global Income Inequality in Numbers: in History and Now--An Overview](#)." World Bank Working paper 6259, November.

Milanovic, Branko. 2020. "[After the financial crisis: the evolution of the global income distribution between 2008 and 2013](#)," July.

Rodrik, Dani, 2015. *Economics Rules: The Rights and Wrongs of the Dismal Science*, W.W. Norton, chaps. 1-4.

2. Productivity: Proximate and deep determinants (Sept 9, DR)

** Rodrik, Dani. 2010. "[Diagnostics before Prescription](#)," *Journal of Economic Perspectives*, 24(3): 33-44.

** Caselli, Francesco. 2005. "[Accounting for Income Differences Across Countries](#)," chapter 9 in P. Aghion and S. Durlauf, eds., *Handbook of Economic Growth*, 1A. North Holland.

* Barro, Robert J. 1998. "[Notes on Growth Accounting](#)," NBER Working Paper No. 6654, National Bureau of Economic Research.

Conference Board, Total Economy Database, [Growth Accounting and Total Factor Productivity, 1990-2018](#). (This is a database. Look at and understand the growth decompositions for four countries that interest you.)

Bosworth, Barry and Susan M. Collins. 2003. "[The Empirics of Growth: An Update](#)," *Brookings Papers*

on Economic Activity, 2: 113-206.

Hall, Robert E. and Charles I. Jones. 1999. "[Why Do Some Countries Produce So Much More Output Per Worker Than Others?](#)" Quarterly Journal of Economics, 114(1): 83-116.

Hsieh, Chang-Tai and Peter Klenow. 2007. "[Relative Prices and Relative Prosperity](#)," American Economic Review, 97(3): 562-585.

Felipe, Jesus and John McCombie. 2017. "[The Debate about the Sources of Growth in East Asia after a Quarter of a Century: much ado about nothing](#)," Asian Development Bank, Working Paper No. 512.

Clemens, Michael, Claudio Montenegro and Lant Pritchett. 2009. "[The Place Premium: Wage Differences for Identical Workers Across the US Border](#)." World Development Bank Report Background Paper.

PART 2: HISTORY AND COMPARATIVE DEVELOPMENT

3. The Industrial Revolution and its sources (Sept 11, DR)

** Allen, Robert C. 2011. Global Economic History: A Very Short Introduction, Oxford University Press, [chapter 3](#): 27-39.

** Mokyr, Joel. 2011. "[The European Enlightenment, the Industrial Revolution, and Modern Economic Growth](#)," in P. Zumbansen and G.P. Calliess, eds., *Law, Economics and Evolutionary Theory*. Edward Elgar Publishing.

** Acemoglu, Daron, Simon Johnson, and James A. Robinson. 2005. "[The Rise of Europe: Atlantic Trade, Institutional Change, and Economic Growth](#)," American Economic Review, 95(3): 546-579.

North, Douglass C. 1990. *Institutions, Institutional Change and Economic Performance*. New York: Cambridge University Press.

Mukherjee, Aditya. 2010. "[Empire: How Colonial India Made Modern Britain](#)." Economic and Political Weekly. December 11-17, Vol. 45, No. 50, pp. 73-82.

Acemoglu, Daron, Simon Johnson, and James A. Robinson. 2002. "[Reversal of Fortune: Geography and Institutions in the Making of the Modern World Income Distribution](#)." Quarterly Journal of Economics, 117:1231-9.

Clark, Gregory. 2007. [A Farewell to Alms: A Brief Economic History of the World](#). Princeton University Press, chapters 10-13.

4. Colonialism, the great divergence, and its present-day ramifications (Sept 14, DR)

** Engerman, Stanley L., and Kenneth L. Sokoloff. 2002. "[Factor Endowments, Inequality, and Paths of Development among New World Economies.](#)" *Economia*, 3, pp. 41–88.

** Nunn, Nathan. 2008. "[The Long-Term Effects of Africa's Slave Trades.](#)" *Quarterly Journal of Economics*. 2008; 123 (1): 139-176.

* Dell, Melissa. 2010. "[The Persistent Effects of Peru's Mining Mita.](#)" *Econometrica*, Vol. 78, No. 6 (November, 2010), 1863–1903.

* Acemoglu, Daron, Simon Johnson, and James A. Robinson. 2001. "[The Colonial Origins of Comparative Development: An Empirical Investigation.](#)" *American Economic Review*. 91:1369–1401.

Banerjee, Abhijit, and Lakshmi Iyer. 2005. "[History, Institutions, and Economic Performance: The Legacy of Colonial Land Tenure Systems in India.](#)" *The American Economic Review*, Vol. 95, No. 4, September, pp. 1190-1213.

Iyer, Lakshmi. 2010. "[Direct versus Indirect Colonial Rule in India: Long-Term Consequences.](#)" *The Review of Economics and Statistics*, MIT Press, vol. 92(4), pages 693-713, November.

Nunn Nathan, and Leonard Wantchekon. 2011. "[The Slave Trade and the Origins of Mistrust in Africa.](#)" *American Economic Review*. 101 (7): 3221-3252.

Kelly, Morgan. 2019. "[The Standard Errors of Persistence.](#)"

5. Recent patterns of economic growth in the developing world (Sept 16, DR)

** Rodrik, Dani. 2014. "[The Past, Present, and Future of Economic Growth.](#)" in Franklin Allen et al., *Towards a Better Global Economy: Policy Implications for Citizens Worldwide in the 21st Century*, Oxford University Press, Oxford and New York.

* Diao, Xinshen, Margaret McMillan, and Dani Rodrik. 2019. "The Recent Growth Boom in Developing Economies: A Structural-Change Perspective," in M. Nissanke and J. Ocampo, eds., [The Palgrave Handbook of Development Economics](#), 281-384.

Egger, Dennis, Johannes Haushofer, Edward Miguel, Paul Niehaus, and Michael Walker. 2019. "[General Equilibrium Effects of Cash Transfers: Experimental Evidence from Kenya.](#)" December 18.

Jones, Charles I. 2015. "[The Facts of Economic Growth.](#)" NBER Working Paper No. 21142, National Bureau of Economic Research.

Rodrik, Dani. 2013. "[Unconditional Convergence in Manufacturing.](#)" *Quarterly Journal of Economics*, 128 (1): 165-204.

Rodrik, Dani. 2016. "[Premature Deindustrialization.](#)" *Journal of Economic Growth*, 21: 1-33.

PART 3: FACTOR ACCUMULATION

6, 7. Physical capital: Investment, intermediation and saving (Sept 21-23, EC)

Returns to capital: macro and micro

** Levine, Ross .1997. "[Financial Development and Economic Growth: Views and Agenda](#)," *Journal of Economic Literature*, American Economic Association, 35(2): 688-726.

** Lucas, Robert E., Jr. 1990. "[Why Doesn't Capital Flow from Rich to Poor Countries?](#)," *American Economic Review*, 80(2): 92-96.

Bernhardt, Arielle, Erica Field, Rohini Pande, Natalia Rigol. 2019. "[Household Matters: Revisiting the Returns to Capital among Female Micro-Entrepreneurs](#)." *American Economic Review: Insights*, 1(2): 141-160.

Bertrand, Marianne, Paras Mehta and Sendhil Mullainathan. 2002. "[Ferretting Out Tunneling: An Application To Indian Business Groups](#)." *Quarterly Journal of Economics*, 117(1): 121-148.

Caselli, Francesco. 2007. "[The Marginal Product of Capital](#)." *The Quarterly Journal of Economics*, 122(2): 535-568.

De Mel, Suresh, David McKenzie, and Christopher Woodruff. 2008. "[Returns to Capital in Microenterprises: Evidence from a Field Experiment](#)," *Quarterly Journal of Economics*, 123(4): 1329-1372.

Fafchamps, Marcel, David McKenzie, Simon Quinn and Christopher Woodruff. 2014. "[Microenterprise growth and the flypaper effect: Evidence from a randomized experiment in Ghana](#)." *Journal of Development Economics*, 106: 211-226.

McKenzie, David and Christopher Woodruff. 2006. "[Do Entry Costs Provide an Empirical Basis for Poverty Traps? Evidence from Mexican Microenterprises](#)." *Economic Development and Cultural Change*, 55 (1): 3-42.

Galor, Oded and Omer Moav. 2004. "[From Physical to Human Capital Accumulation: Inequality and the Process of Development](#)." *The Review of Economic Studies*, 71(4): 1001–1026.

Rajan, Raghuram and Luigi Zingales. 1998. "[Financial Dependence and Growth](#)." *American Economic Review*, American Economic Association, 88(3): 559-86.

Udry, Christopher and Santosh Anagol. 2006. "[The Return to Capital in Ghana](#)," *American Economic Review*, 96(2): 388-393.

Constraints to financial capital accumulation

* Robin Burgess & Rohini Pande. 2005. "[Do Rural Banks Matter? Evidence from the Indian Social Banking Experiment](#)," *American Economic Review*, American Economic Association, 95(3): 780-795.

* Khwaja, Asim and Atif Mian. 2008. "[Tracing the Impact of Bank Liquidity Shocks: Evidence from an Emerging Market](#)." *American Economic Review*, 98(4): 1413-1442.

- * Banerjee, Abhijit V. and Esther Duflo. 2014. [“Do Firms Want to Borrow More? Testing Credit Constraints Using a Directed Lending Program Department of Economics.”](#) *Review of Economic Studies* (2014) 81: 572–607.
- * Mullainathan, Sendhil. 2006. [“Development Economics Through the Lens of Psychology,”](#) Proceedings of the Annual Bank Conference on Development Economics.
- Ashraf, Nava. 2009. [“Spousal Control and Intra-household Decision Making: An Experimental Study in the Philippines.”](#) *American Economic Review* 99(4): 1245–1277.
- Ashraf, Nava, Dean Karlan and Wesley Yin. 2006. [“Tying Odysseus to the Mast: Evidence from a Commitment Savings Product in the Philippines.”](#) *Quarterly Journal of Economics*, 121(2): 635-672.
- Berg, Gunhild and Bilal Zia. 2017. [“Harnessing Emotional Connections to Improve Financial Decisions: Evaluating the Impact of Financial Education in Mainstream Media,”](#) *Journal of the European Economic Association*, 15(5): 1025–1055.
- Bertrand, Marianne, Dean Karlan, Sendhil Mullainathan, Eldar Shafir and Jonathan Zinman. 2010. [“What’s Advertising Content Worth? Evidence from a Consumer Credit Marketing Field Experiment,”](#) *The Quarterly Journal of Economics*, 125(1): 263–306.
- Blumenstock, Joshua, Michael Callen, and Tarek Ghani. 2018. [“Why Do Defaults Affect Behavior? Experimental Evidence from Afghanistan.”](#) *American Economic Review*, 108 (10): 2868-2901.
- Cole, Shawn, Thomas Sampson and Bilal Zia. 2011. [“Prices or Knowledge? What Drives Demand for Financial Services in Emerging Markets?”](#) *The Journal of Finance*, 66(6): 1933-1967.
- Dupas, Pascaline, Dean Karlan, Jonathan Robinson, and Diego Ubfal. 2018. [“Banking the Unbanked? Evidence from Three Countries.”](#) *American Economic Journal: Applied Economics*, 10 (2): 257-97.
- Dupas, Pascaline and Jonathan Robinson. 2013. [“Why Don't the Poor Save More? Evidence from Health Savings Experiments.”](#) *American Economic Review*, 103(4): 1138-1171.
- Field, Erica, Rohini Pande, John Papp, and Natalia Rigol. 2013. [“Does the Classic Microfinance Model Discourage Entrepreneurship among the Poor? Experimental Evidence from India.”](#) *American Economic Review*, 103 (6): 2196-2226.
- Karlan, Dean, and Jonathan Zinman. 2009. [“Observing Unobservables: Identifying Information Asymmetries with Consumer Credit Field Experiment.”](#) *Econometrica*, 77(6), 1993–2008.
- Karlan, Dean, and Jonathan Zinman. 2010. [“Expanding Credit Access: Using Randomized Supply Decisions to Estimate the Impacts,”](#) *The Review of Financial Studies*, 23(1): 433–464.

8, 9. Human capital: Education (Sept 28-30, EC)

Returns to education: macro and micro

- ** Rossi, Federico. 2020. [Human Capital and Macroeconomic Development: A Review of the Evidence.](#) *The World Bank Research Observer*, 35 (2): 227–262.

* Psacharopoulos, George and Harry Anthony Patrinos. 2018. "[Returns to Investment in Education: A Decennial Review of the Global Literature](#)," Policy Research Working Paper No. 8402. World Bank, Washington, DC.

* Pritchett, Lant. 2001. "[Where Has All The Education Gone?](#)" World Bank Economic Review, 15(3): 367-391.

Acemoglu, Daron and Joshua Angrist. 2001. "[How Large are Human Capital Externalities? Evidence from Compulsory Schooling Laws](#)," NBER Macroeconomics Annual 2000, 15: 9-74.

Card, David. 2001. "[Estimating the Return to Schooling: Progress on Some Persistent Econometric Problems](#)," *Econometrica*, 69(5): 1127-1160.

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.

Duflo, Esther. 2004. "[The Medium Run Consequences of Educational Expansion: Evidence from a Large School Construction Program in Indonesia](#)," *Journal of Development Economics*, 74(1): 163-197.

Constraints to education accumulation

* Jensen, Robert. 2010. "[The \(Perceived\) Return to Education and the Demand for Schooling](#)," *Quarterly Journal of Economics*, 125(2): 515-548.

* 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.

* Dizon-Ross, Rebecca. 2019. "[Parents' Beliefs about Their Children's Academic Ability: Implications for Educational Investments](#)," *American Economic Review*, 109 (8): 2728-65.

Attanasio, Orazio, Teodora Boneva, Christopher Rauh. 2019. "[Parental Beliefs about Returns to Different Types of Investments in School Children](#)," NBER Working Paper No. 25513

Becker, Gary S., and Nigel Tomes. "[Child Endowments and the Quantity and Quality of Children](#)," *Journal of Political Economy*, vol. 84, no. 4, 1976, pp. S143–S162.

Burde, Dana, and Leigh L Linden. 2013. "[Bringing education to Afghan girls: A Randomized Controlled Trial of Village-Based Schools](#)," *American Economic Journal: Applied Economics*, 5: 27-40.

Hanan G. Jacoby and Ghazala Mansuri. 2011. [Crossing Boundaries: Gender, Caste and Schooling in Rural Pakistan](#). World Bank Policy Research Working Papers.

Heath, Rachel and A. Mushfiq Mobarak. 2012. "[Does Demand or Supply Constrain Investments in Education? Evidence from Garment Sector Jobs in Bangladesh](#)," Working paper.

Jayachandran, Seema and A. Lleras-Muney. 2009. "[Life Expectancy and Human Capital Investments: Evidence from Maternal Mortality Declines](#)," *Quarterly Journal of Economics*, 124(1): 349-397.

Jensen, Robert and Emily Oster. 2009. "[The Power of TV: Cable Television and Women's Status in India](#)," *Quarterly Journal of Economics*, 124(3): 1057-1094.

Kremer, Michael, Edward Miguel, and Rebecca Thornton. 2009. "[Incentives to Learn](#)," *Review of Economics and Statistics* 91 (1): 437- 456.

Roy, Sanchari. 2015. "[Empowering women? Inheritance rights, female education and dowry payments in India.](#)" *Journal of Development Economics*, 114: 233-251.

Wantchekon, Leonard, Marko Klašnja, Natalija Novta. 2015. "[Education and Human Capital Externalities: Evidence from Colonial Benin.](#)" *The Quarterly Journal of Economics*, 130 (2): 703–757.

10, 11. Human capital: Health (Oct 5-7, EC)

Returns to health: macro and micro

** Bloom, David E., Michael Kuhn and Klaus Prettner. 2018. "[Health and Economic Growth.](#)" IZA Discussion Paper Series No. 11939.

Barro, Robert J., José F. Ursúa and Joanna Weng. 2020. "[The Coronavirus and the Great Influenza Pandemic: Lessons from the Spanish Flu for the Coronavirus's Potential Effects on Mortality and Economic Activity.](#)" NBER Working Paper No. 26866.

Bleakley, Hoyt. 2010. "[Health, Human Capital, and Development.](#)" *Annual Reviews of Economics*, 2: 283-310.

Bloom, David E., David Canning, Rainer Kotschy, Klaus Prettner, and Johannes J. Schünemann. 2019. "[Health And Economic Growth: Reconciling The Micro And Macro Evidence](#)". NBER Working Paper No. 26003, National Bureau of Economic Research.

Dasgupta, Partha, and Debraj Ray. 1986. "[Inequality as a Determinant of Malnutrition and Unemployment: Theory.](#)" *The Economic Journal*, 96 (384), 1011–1034.

Deaton, Angus, and Shankar Subramanian. 1996. "[The Demand for Food and Calories.](#)" *Journal of Political Economy* 104 (1): 133-162.

Lopez, A.D. and C. D. Mathers. 2006. "[Measuring the global burden of disease and epidemiological transitions: 2002–2030.](#)" *Annals of Tropical Medicine & Parasitology*, 100 (5), 481–499.

Pritchett, Lant, and Martina Viarengo. 2010. "[Explaining the Cross-National Time Series Variation in Life Expectancy: Income, Women's Education, Shifts, and What Else?](#)" Human Development Research Paper. UNDP

Constraints to health accumulation

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