ECON 242 Macroeconomics of Development Fall 2020 Syllabus

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9:30 p.m. - 10:50 p.m. T/Th @ ZOOM

COURSE DESCRIPTION

This course starts the year-long graduate sequence in development economics. The focus this quarter is on macroeconomic themes, although we will often cover both macro and micro approaches to studying them. Topics include cross-country income differences, long-run growth, misallocation, consumption, population, and institutions.

You are expected to attend the trade and development seminar series, which immediately follows the class period.

ASSIGNMENTS AND GRADING

Readings. Each lecture has a set of associated readings. Those marked with a * or a [†] are required. For those marked with a [†], you will prepare three slides:

- (1) Good stuff: what the paper does well.
- (2) Bad stuff: what the paper doesn't do well.
- (3) Extensions: what you could do to extend the paper.

Upload your slides to Google Drive before lecture. To start each class, a randomly-chosen student will present their three slides.

Class presentations. You will present one paper marked with a * during the semester. You should aim for a 20-minute presentation that clearly lays out the main contribution of the paper. Please e-mail me by the end of the first week with a preference-ordered list of three starred papers you would be open to presenting. Upload your slides to Google Drive before lecture.

Research ideas. Every 3-4 weeks, you will develop a new research idea, which you will summarize in a single paragraph, **250 words or less**. After the due date, you will be assigned to review another student's research idea. Within a week, you will post commentary on the other student's idea. I will then follow up with comments of my own. The goal is to start brainstorming for dissertation ideas and to learn how to comment constructively on your peers' work. You should of course strive for original, interesting, and implementable research ideas, but it is okay if some of your ideas turn out to fall short of those goals. In commenting on your classmates' ideas, you can be critical, but you should always constructive. Do not put down your classmates.

Research ideas (comments) are due: 10/16 (10/23), 11/6 (11/13), 12/4 (12/11).

Grades. Your grade will be determined by your presentation (30%), your classroom participation including three-slide commentaries (30%), and your research idea correspondence (40%).

I. Development, Growth, and Aggregate Factor Accumulation

Lecture 1 (10/1): Basic Facts and Questions

- * Acemoglu, D. (2010). Chapter 1, "Economic Growth and Economic Development: The Questions." *Introduction to Modern Economic Growth*.
- * Jones, C. (2016). "The Facts of Economic Growth" (esp. Section 4). Handbook of Macroeconomics.
- Jones, B., and B. Olken. (2008). "The Anatomy of Start-Stop Growth." *Review of Economics and Statistics* 90(3): 582-587.
- * Lucas, R. (1990). "Why Capital Doesn't Flow from Rich to Poor Countries?" *American Economic Review* 80(2): 92-96.
- Lucas, R. (2005). "The Industrial Revolution: Past and Future." *Region, Federal Reserve Bank of Minneapolis*.
- Pritchett, L. (1997). "Divergence, Big Time." Journal of Economic Perspectives 11(3): 3-17.

Lecture 2 (10/6): Measuring Development

- Allen, R. (2017). "Absolute Poverty: When Necessity Displaces Desire." *American Economic Review* 107(12): 3690-3721.
- Chen, S., and M. Ravallion. (2010). "The Developing World Is Poorer than We Thought, But No Less Successful in the Fight Against Poverty." *Quarterly Journal of Economics* 125(4): 1577-1625.
- [†] Deaton, A. (2005). "Measuring Poverty in a Growing World (or Measuring Growth in a Poor World." *Review of Economics and Statistics* 87(1): 1-19.
- Deaton, A., and O. Dupriez. (2011). "Purchasing Power Parity Exchange Rates for the Global Poor." *American Economic Journal: Applied Economics* 3(2): 137-66.
- Deaton, A., and A. Heston. (2010). "Understanding PPPs and PPP-Based National Accounts." *American Economic Journal: Macroeconomics* 2(4): 1-35.
- Feenstra, R., R. Inklaar, and M. Timmer. (2015). "The Next Generation of the Penn World Table." *American Economic Review* 105(10): 3150-82.
- Jean, N., et al. (2016). "Combining satellite imagery and machine learning to predict poverty." *Science* 353(6301): 790-794.
- * Jones, C., and P. Klenow. (2016). "Beyond GDP: Welfare Across Countries and Time." *American Economic Review* 106: 2426-2457.
- Henderson, J., T. Squires, A. Storeygard, and D. Weil. (2012). "Measuring Economic Growth from Outer Space." *American Economic Review* 102(2): 994-1028.
- Pinkovskiy, M., and X. Sala-i-Martin. (2016). "Lights, Camera... Income! Illuminating the National Accounts-Household Surveys Debate." *Quarterly Journal of Economics* 131(2): 579-631.
- * Young, A. (2012). "The African Growth Miracle." Journal of Political Economy 120: 696-739.

Lecture 3 (10/8): The Solow Model and Development Accounting

- Acemoglu, D. (2010). Chapter 3, "The Solow Model and the Data." Introduction to Modern Economic Growth.
- [†] Caselli, F. (2005). "Accounting for Cross-Country Income Differences." *Handbook of Economic Growth Volume 1.*

- * Hall, R., and C. Jones. (1999). "Why Do Some Countries Produce So Much More Output per Worker than Others?" *Quarterly Journal of Economics* 114(1): 83-116.
- Hsieh, C., and P. Klenow. (2010). "Development Accounting." American Economic Journal: Macroeconomics 2(1): 207-223.
- * Mankiw, N.G., D. Romer, and D. Weil. (1992). "A Contribution to the Empirics of Economic Growth." *Quarterly Journal of Economics* 107(2): 407-437.

Lecture 4 (10/13): More on the Measurement of Human Capital

- * Bils, M., and P. Klenow. (2002). "Does Schooling Cause Growth?" *American Economic Review* 90(5): 1160-1183.
- Caselli, F., and A. Ciccone. (2019). "The Human Capital Stock: A Generalized Approach: Comment." *American Economic Review* 109(3): 1155-74.
- Hendricks, Lutz. (2002). "How Important Is Human Capital for Development? Evidence from Immigrant Earnings." *American Economic Review* 92(1): 198-219.
- Hendricks, L., and T. Schoellman. (2017). "Human Capital and Development Accounting: New Evidence from Wage Gains at Migration." *Quarterly Journal of Economics* 133(2): 665-700.
- Jones, B. (2014). "The Human Capital Stock: A Generalized Approach." *American Economic Review* 104 (11): 3752-77.
- [†] Lagakos, D., Moll, B., Porzio, T., Qian, N., and T. Schoellman. (2018). "Life Cycle Wage Growth across Countries." *Journal of Political Economy* 126(2): 797-849.
- * Schoellman, T. (2011). "Education Quality and Development Accounting." *Review of Economic Studies* 79(1): 388-417.

II. Beyond the Aggregate Production Function

Lecture 5 (10/15): Complementarities

- * Bleakley, H., and J. Lin. (2012). "Portage and Path Dependence. Quarterly Journal of Economics 127(2): 587-644.
- Durlauf, S. (1993). "Nonergodic Economic Growth." *Review of Economic Studies* 60(20): 349-366.
- * Henderson, J., T. Squires, A. Storeygard, and D. Weil. (2017). "The Global Distribution of Economic Activity: Nature, History, and the Role of Trade." *Quarterly Journal of Economics* 133(1): 357-406.
- Jedwab, R., and A. Moradi. (2016). "The Permanent Effects of Transportation Revolutions in Poor Countries: Evidence from Africa." *Review of Economics and Statistics* 98(2): 268-284.
- Jedwab, R., E. Kerby, E., and A. Moradi. (2017). "History, Path Dependence and Development: Evidence from Colonial Railways, Settlers and Cities in Kenya." *Economic Journal* 127(603): 1467-1494.
- Jones, C.I. (2011). "Intermediate Goods and Weak Links in the Theory of Economic Development." *American Economic Journal: Macroeconomics* 3(2): 1-28.
- [†] Kremer, M. (1993). "The O-Ring Theory of Economic Development." *Quarterly Journal of Economics 108*(3), 551-575.
- Murphy, K., Shleifer, A., and R. Vishny. (1989). "Industrialization and the Big Push." *Journal of Political Economy* 97: 1003-1026.

Lecture 6 (10/20): Inequality and Growth

- Banerjee, A., and E. Duflo. (2003). "Inequality and Growth: What Can the Data Say?" *Journal of Economic Growth* 8(3): 267-299.
- * Banerjee, A., and A. Newman. (1993). "Occupational Choice and the Process of Development." *Journal of Political Economy* 101: 274-298.
- Buera, F., J. Kaboski, and Y. Shin. (2011). "Finance and Development: A Tale of Two Sectors." *American Economic Review* 101(5): 1964-2002.
- * De la Croix, D., and M. Doepke. (2003). "Inequality and Growth: Why Differential Fertility Matters." American Economic Review 93: 1091-1113.
- [†] Galor, O., and J. Zeira. (1993). "Income Distribution and Macroeconomics." *Review of Economic Studies* 60: 30-52.
- Moav, O. (2005). "Cheap Children and the Persistence of Poverty." Economic Journal, 115(500), 88-110.
- Moll, B. (2014). "Productivity Losses from Financial Frictions: Can Self-Financing Undo Capital Misallocation?" *American Economic Review* 104(10): 3186-3221.
- Mookherjee, D., and D. Ray. (2003). "Persistent Inequality." *Review of Economic Studies* 70: 369-394.

Lecture 7 (10/22): Misallocation

- Banerjee, A., and E. Duflo. (2005). "Growth Theory Through the Lens of Development Economics." In *Handbook of Economic Growth Volume 3*.
- Banerjee, A., and B. Moll. (2010). "Why Does Misallocation Persist?" *American Economic Journal: Macroeconomics* 2(1): 189-206.
- Banerjee, A., and K. Munshi. (2004). "How Efficiently is Capital Allocated? Evidence from the Knitted Garment Industry in Tirapur." *Review of Economic Studies* 71(1): 19-42.
- Bils, M., P. Klenow, and C. Ruane. (2017). "Misallocation or Mismeasurement?" Working paper.
- * Hsieh, C., E. Hurst, C. Jones, and P. Klenow. (2019). "The Allocation of Talent and US Economic Growth." *Econometrica* 87(5): 1439-1474.
- [†] Hsieh, C.T., and P. Klenow. (2009). "Misallocation and Manufacturing TFP in China and India." *Quarterly Journal of Economics* 124: 1402-1448.
- * Hsieh, C.T., and P. Klenow. (2014). "The Life Cycle of Plants in India and Mexico." *Quarterly Journal of Economics* 129(3): 1035-1084.
- Restuccia, D., and R. Rogerson. (2017). The Causes and Costs of Misallocation." *Journal of Economic Perspectives* 31(3): 151-74.

Lecture 8 (10/27): Credit Markets

- American Economic Journal: Applied Economics, Vol. 7, No. 1, January 2015. Issue on microfinance.
- Banerjee, A., and E. Duflo. (2014). "Do Firms Want to Borrow More? Testing Credit Constraints Using a Directed Lending Program." *Review of Economic Studies* 81(2): 572-607.
- Bau, N., and A. Matray. (2020). "Misallocation and capital market integration: Evidence from India." Working paper.
- Breza, E., and C. Kinnan (2018). "Measuring the Equilibrium Impacts of Credit: Evidence from the Indian Microfinance Crisis." Working paper.
- [†] Burgess, R., and R. Pande. (2005). "Do Rural Banks Matter? Evidence from the Indian Social Banking Experiment." *American Economic Review* 95(3): 780-795.

- * De Mel, S., D. McKenzie, and C. Woodruff. (2008). "Returns to Capital in Microenterprises: Evidence from a Field Experiment." *Quarterly Journal of Economics* 123(4): 1329-1372.
- * Kaboski, J.P., and R.M. Townsend. (2011). "A Structural Evaluation of a Large-Scale Quasi-Experimental Microfinance Initiative." *Econometrica* 79(5): 1357-1406.
- Kaboski, J.P., and R.M. Townsend. (2012). "The Impact of Credit on Village Economies." American Economic Journal: Applied Economics 4(2): 98-133.
- Midrigan, V., and D. Xu. (2014). "Finance and Misallocation: Evidence from Plant-Level Data." *American Economic Review* 104(2): 422-58.

Lecture 9 (10/29): Inter-Industry Differences

- * Adamopoulos, T., and D. Restuccia. (2014). "The Size Distribution of Farms and International Productivity Differences." *American Economic Review* 104(6): 1667-97.
- Banerjee, A., and A. Newman. (1998). "Information, the Dual Economy, and Development." *Review of Economic Studies* 65(4): 631-653.
- [†] Gollin, D., D. Lagakos, and M. Waugh. (2013). "The Agricultural Productivity Gap." *Quarterly Journal of Economics* 129(2): 939-993.
- Gollin, D. (2014). "The Lewis Model: A 60-Year Retrospective." *Journal of Economic Perspectives* 28(3): 71-88.
- Gollin, D., and C. Udry. (Forthcoming). "Heterogeneity, Measurement Error and Misallocation: Evidence from African Agriculture." *Journal of Political Economy*.
- Herrendorf, B., and T. Schoellman. (2015). "Why is Measured Productivity So Low in Agriculture?" *Review of Economic Dynamics* 18(4): 1003-1022.
- * Hicks, J., M. Kleemans, N. Li, and E. Miguel. (Forthcoming). "Reevaluating Agricultural Productivity Gaps with Longitudinal Microdata." *Journal of the European Economic Association*.
- Lagakos, D., and M. Waugh. (2013). "Selection, Agriculture, and Cross-Country Productivity Differences." *American Economic Review* 103(2): 948-80.
- Lewis, W. (1954). "Economic Development with Unlimited Supplies of Labour." *The Manchester School* 22(2): 139-191.

Lecture 10 (11/3): Inter-Regional Differences

- Bazzi, S., A. Gaduh, A. Rothenberg, and M. Wong. (2016). "Skill Transferability, Migration, and Development: Evidence from Population Resettlement in Indonesia." *American Economic Review* 106(9): 2658-98.
- [†] Bryan, G., and M. Morten. (2019). "The Aggregate Productivity Effects of Internal Migration: Evidence from Indonesia." *Journal of Political Economy* 127(5): 2229-2268.
- Munshi, K., and M. Rosenzweig. (2016). "Networks and Misallocation: Insurance, Migration, and The Rural-Urban Wage Gap." *American Economic Review* 106(1): 46-98.
- * Young, A. (2013). "Inequality, the Urban-Rural Gap, and Migration." *Quarterly Journal of Economics* 128(4): 1727-1785.
- Lagakos, D. 2020. "Urban-Rural Gaps in the Developing World: Does Internal Migration Offer Opportunities?" *Journal of Economic Perspectives* 34(3): 174-92.
- Lagakos, D., A. Mobarak, and M. Waugh. (2018). "The Welfare Effects of Encouraging Rural-Urban Migration. Working paper.

* Lagakos, D., S. Marshall, A. Mobarak, C. Vernot, and M. Waugh. (Forthcoming). "Migration Costs and Observational Returns to Migration in the Developing World." *Journal of Monetary Economics*.

III. Risk

Lecture 11 (11/5): Lifecycle Consumption and Saving

- Ashraf, N., D. Karlan, and W. Yin. (2006). "Tying Odysseus to the Mast: Evidence from a Commitment Savings Product in the Philippines." *Quarterly Journal of Economics* 121(2): 635-72.
- Coeurdacier, N., S. Guibaud, and K. Jin. (2015). "Credit Constraints and Growth in a Global Economy." *American Economic Review* 105(9): 2838-81.
- Curtis, C., S. Lugauer, and N. Mark. (2015). "Demographic Patterns and Household Saving in China." *American Economic Journal: Macroeconomics* 7(2): 58-94.
- * Deaton, A. (1997). The Analysis of Household Surveys. Chapter 6.
- Deaton, A., and C. Paxson. (2000). "Growth and Saving among Individuals and Households." *Review of Economics and Statistics* 82(2): 212-225.
- Dercon, S. and P. Krishnan. (2000). "In Sickness and Health: Risk Sharing with Households in Rural Ethiopia." *Journal of Political Economy* 108(4): 688-727.
- Dupas, P., and J. Robinson. (2013). "Why Don't the Poor Save More? Evidence from Health Savings Experiments." *American Economic Review* 103(4): 1138-71.
- * Gertler, P. and J. Gruber. (2002). "Insuring Consumption Against Illness." *American Economic Review* 92(1): 51-70.
- Kaboski, J., and R. Townsend. (2011). "A Structural Evaluation of a Large-Scale Quasi-Experimental Microfinance Initiative." *Econometrica* 79(5): 1357-1406.
- Rosenzweig, M., and K. Wolpin. (1993). "Credit Market Constraints, Consumption Smoothing, and the Accumulation of Durable Production Assets in Low-Income Countries: Investments in Bullocks in India." *Journal of Political Economy* 101(2): 223–244.
- [†] Paxson, C. (1992). "Using Weather Variability to Estimate the Response of Savings to Transitory Income in Thailand." *American Economic Review* 82(1): 15–33.
- Wei, S., and X. Zhang. (2011). "The Competitive Saving Motive: Evidence from Rising Sex Ratios and Savings Rates in China." *Journal of Political Economy* 119(3): 511-564.

Lecture 12 (11/10): Insurance

- Cai, J., A. de Janvry, and E. Sadoulet. (2020). "Subsidy Policies and Insurance Demand." *American Economic Review* 110(8): 2422-53.
- Casaburi, L., and J. Willis. (2018). "Time Versus State in Insurance: Experimental Evidence from Contract Farming in Kenya." *American Economic Review* 108(12): 3778-3813.
- Kazianga, H., and C. Udry. (2006). "Consumption Smoothing? Livestock, Insurance, and Drought in Rural Burkina Faso." *Journal of Development Economics* 79(2): 413-446.
- * Karlan, D., R. Osei, I. Osei-Akoto, and C. Udry. (2014). "Agricultural Decisions after Relaxing Credit and Risk Constraints." *Quarterly Journal of Economics* 129(2): 597-652.
- Ligon, E. (1998). "Risk Sharing and Information in Village Economies." *Review of Economic Studies* 65(4): 847-864.

- Ligon, E., J. Thomas, and T. Worrall. (2002). "Informal Insurance Arrangements with Limited Commitment: Theory and Evidence from Village Economies." *Review of Economic Studies* 69(1): 209-244.
- Morten, M. (2019). "Temporary Migration and Endogenous Risk Sharing in Village India." *Journal of Political Economy* 127(1): 1-46.
- Munshi, K., & Rosenzweig, M. (2016). "Networks and Misallocation: Insurance, Migration, and the Rural-Urban Wage Gap." *American Economic Review* 106(1): 46-98.
- [†] Townsend, R. (1994). "Risk and Insurance in Village India." *Econometrica* 62(3): 539-591.
- * Udry, C. (1994). "Risk and Insurance in a Rural Credit Market: An Empirical Investigation in Northern Nigeria." *Review of Economic Studies* 61(3): 495–526.

IV. Alternatives to Solow

Lecture 13 (11/12): Endogenous Growth

- Acemoglu, D. (2010). Chapter 11, "First Generation Models of Endogenous Growth," Chapter 13, "Expanding Varieties Models," and Chapter 14, "Models of Schumpterian Growth." *Introduction to Modern Economic Growth*.
- Aghion, P., and P. Howitt. (1992). "A Model of Growth through Creative Destruction." *Econometrica* 60: 323-51.
- Grossman, G., and E. Helpman. (1991). "Quality Ladders in the Theory of Growth." *Review of Economic Studies* 58(1): 43-61.
- * Jones, C. (1999). "Growth: With or Without Scale Effects." *American Economic Review* 89(2): 139-144.
- Jones, C. (2005). "Growth and Ideas." Handbook of Economic Growth Volume 1B.
- * Jones, C. (2020). "The End of Economic Growth? Unintended Consequences of a Declining Population." NBER Working Paper 26651.
- [†] Kremer, M. (1993). "Population Growth and Technological Change: One Million B.C. to 1990." *Quarterly Journal of Economics* 108(3): 681-716.
- Lucas, R. (1988). "On the Mechanics of Economic Development." *Journal of Monetary Economics* 22(1): 3-42.
- Romer, P. (1986). "Increasing Returns and Long-Run Growth." *Journal of Political Economy* 94: 1002-1037.
- Romer, P. (1990). "Endogenous Technological Change." *Journal of Political Economy* 98(5): S71-102.

Lecture 14 (11/17): Malthus to Solow

- * Ashraf, Q. and O. Galor. (2011). "Dynamics and Stagnation in the Malthusian Epoch." *American Economic Review* 101(5): 2003-2041.
- Boldrin, M., and L. Jones. (2002). "Mortality, Fertility, and Saving in a Malthusian Economy." *Review of Economic Dynamics* 5(4): 775-814.
- Ashraf, Q. and S. Michalopoulos. (2015). "Climatic Fluctuations and the Diffusion of Agriculture." *Review of Economics and Statistics* 97(3): 589-609.
- De la Croix, D., M. Doepke, and J. Mokyr. (2017). "Clans, Guilds, and Markets: Apprenticeship, Institutions, and Growth in the Preindustrial Economy." *Quarterly Journal of Economics* 133(1): 1-70.

- Dittmar, J. (2011). "Information Technology and Economic Change: The Impact of the Printing Press." *Quarterly Journal of Economics* 126(3): 1133-1172.
- Eckstein, Z., S. Stern, and K. Wolpin. (1988). "Fertility Choice, Land, and the Malthusian Hypothesis." *International Economic Review* 29(2): 353-361.
- Galloway, P. (1986). "Long-Term Fluctuations in Climate and Population in the Preindustrial Era." *Population and Development Review* 12(1): 1-24.
- [†] Hansen, D., and E. Prescott. (2002). "Malthus to Solow." *American Economic Review* 92(4): 1205-1217.
- Jones, C. (2001). "Was an Industrial Revolution Inevitable? Economic Growth over the Very Long Run." *B.E. Journal of Macroeconomics* 1: 1–45.
- Lee, R. (1997). "Population Dynamics: Equilibrium, Disequilibrium, and Consequences of Fluctuations." *Handbook of Population and Family Economics Volume 1*.
- Malthus, T. (1798). *Essay on the Principle of Population*, Chapters 1 and 2. Online: <u>http://www.esp.org/books/malthus/population/malthus.pdf</u>.
- * Squicciarini, M., and N. Voigtländer. (2015). "Human Capital and Industrialization: Evidence from the Age of Enlightenment." *Quarterly Journal of Economics* 130(4): 1825-1883.

V. Population

Lecture 15 (11/19): Measuring Population Processes

Preston, S., P. Heuveline, and M. Guillot. (2001). *Demography: Measuring and Modeling Population Processes*. London: Blackwell. Chapters 1, 2, 3, and 5.

Lecture 16 (11/24): Fertility Decline and the Emergence of Modern Growth

- Barro, R., and G. Becker. (1989). "Fertility Choice in a Model of Economic Growth." *Econometrica* 57(2): 481-501.
- Becker, G., K. Murphy, and R. Tamura. (1990). "Human Capital, Fertility, and Economic Growth." *Journal of Political Economy* 98(5): S12-37.
- * Chatterjee, S., and T. Vogl. (2018). "Escaping Malthus: Economic Growth and Fertility Change in the Developing World." *American Economic Review* 108(6): 1440-67.
- Doepke, M. (2004). "Accounting for Fertility Decline During the Transition to Growth." *Journal* of Economic Growth 9(3): 347-383.
- Doepke, M. (2005). "Child Mortality and Fertility Decline: Does the Barro-Becker Model Fit the Facts?" *Journal of Population Economics* 18(2): 337-366.
- Galor, O. (2005). "From Stagnation to Growth: Unified Growth Theory." *Handbook of Economic Growth Volume 1*. Section 4.
- Galor, O., and O. Moav. (2002). "Natural Selection and the Origin of Economic Growth." *Quarterly Journal of Economics* 117(4): 1133-1191.
- [†] Galor, O., and D. Weil. (2000). "Population, Technology, and Growth: From Malthusian Stagnation to the Demographic Transition and Beyond." *American Economic Review* 90(4): 806-828.
- Galor, O., and D. Weil. (1996). "The Gender Gap, Fertility, and Growth." *American Economic Review* 86(3): 374-387.
- * Pritchett, L. (1994). "Desired Fertility and the Impact of Population Policies." *Population and Development Review* 20(1):1–55.

Schultz, P. (1985). "Changing World Prices, Women's Wages and the Fertility Transition." *Journal of Political Economy* 93: 1126-1154.

Lecture 17 (12/1): Differential Fertility and Child Quality

- Becker, G., and H.G. Lewis. (1973). "On the Interaction between the Quantity and Quality of Children." *Journal of Political Economy* 81: S279-S288.
- * Bhalotra, S., and D. Clarke. (Forthcoming). "Twin Birth and Maternal Condition." *Review of Economics and Statistics*.
- Baudin, T., D. De la Croix, and P. Gobbi. (Forthcoming). "Endogenous Childlessness and Stages of Development." *Journal of the European Economic Association*.
- Bleakley, H., and F. Lange. (2009). "Chronic Disease Burden and the Interaction of Education, Fertility, and Growth." *Review of Economics and Statistics* 91(1): 52-65.
- * Jones, L., A. Schoonbroodt, and M. Tertilt. (2011). "Fertility Theories: Can They Explain the Negative Fertility-Income Relationship?" *Demography and the Economy*. <u>http://www.nber.org/chapters/c8406</u>
- Li, H., J. Zhang, and Y. Zhu. (2008). "The Quantity-Quality Tradeoff of Children in a Developing Country: Identification Using Chinese Twins." *Demography* 45(1): 223-243.
- Rosenzweig, M. and K. Wolpin. (1980). "Testing the Quantity-Quality Fertility Model: The Use of Twins as a Natural Experiment." *Econometrica* 48(1): 227-240.
- Rosenzweig, M., & J. Zhang. (2009). "Do Population Control Policies Induce More Human Capital Investment? Twins, Birth Weight and China's 'One-Child' Policy." *Review of Economic Studies* 76(3): 1149-1174.
- [†] Vogl, Tom. (2016). "Differential Fertility, Human Capital, and Development." *Review of Economic Studies*.

Lecture 18 (12/3): Gender and Aggregate Development

- [†] Alesina, A., P. Giuliano, and N. Nunn. (2013). "On the Origins of Gender Roles: Women and the Plough." *Quarterly Journal of Economics* 128(2): 469-530.
- Ashraf, N., N. Bau, N. Nunn, and A. Voena. (2020). "Bride Price and Female Education." *Journal* of Political Economy 128(2): 591-641.
- Carranza, E. (2014). "Soil Endowments, Female Labor Force Participation, and the Demographic Deficit of Women in India." *American Economic Journal: Applied Economics* 6(4): 197-225.
- Doepke, M., and M. Tertilt. (2019). "Does Female Empowerment Promote Economic Development?" *Journal of Economic Growth* 24(4): 309-343.
- Duflo, Esther. (2012). "Women's Empowerment and Economic Development." Journal of Economic literature 50(4): 1051-79.
- Fernández, R. (2014). "Women's Rights and Development." *Journal of Economic Growth* 19(1): 37-80.
- Lagerlöf, N. P. (2003). "Gender Equality and Long-Run Growth." *Journal of Economic Growth* 8(4): 403-426.
- * Olivetti, C. (2013). "The Female Labor Force and Long-Run Development: The American Experience in Comparative Perspective." In Boustan, Frydman, and Margo, *Human Capital in History: the American Record*. <u>https://www.nber.org/chapters/c12892.pdf</u>
- * Tertilt, M. (2005). "Polygyny, Fertility, and Savings." *Journal of Political Economy* 113(6): 1341-1371.

Lecture 19 (12/8): Health and Economic Growth

- [†] Acemoglu, D., and S. Johnson. (2007). "Disease and Development: The Effect of Life Expectancy on Economic Growth." *Journal of Political Economy* 115(6): 925-985.
- Bloom, D., D. Canning, and G. Fink. (2014). "Disease and Development Revisited." *Journal of Political Economy* 122(6): 1355-1366.
- Cervelatti, M., and U. Sunde. (2005). "Human Capital Formation, Life Expectancy, and the Process of Development." *American Economic Review* 95(5): 1653-1672.
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Lecture 20 (12/10): Course Summary