

Syllabus EC2510 (Economic Development I), Spring 2011

Tuesdays/Thursdays 9-10.20am, Sayles Hall 002

Jan 27-March 10

Instructor: Anja Sautmann

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Office hours: Thu 1-2pm or by appointment

March 15-April 28

Instructor: Sriniketh Nagavarapu

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Summary of course:

The first part of the course covers broadly speaking issues of household decision making. We will first look at general theories of the household, and then discuss specific areas that are affected by these decisions, i.e. fertility choices, nutrition, and issues of gender, including marriage markets. Separately we will then talk about the causes and consequences of conflict and its relation with economic development. This part of the course will put an emphasis on theory.

The second part of the course covers issues related to land, labor, and natural resources in developing countries, in partial and general equilibrium settings. Topics covered include: land markets, titling, and land distribution; household and individual labor supply, wage labor and self-employment, and trade liberalization; and environmental issues, with special attention to deforestation, air pollution, and water resources.

The primary objectives of this course are to familiarize you with some key aspects of the micro-development literature and to further develop your ability to read and write applied work in development. Hopefully, the course will help you answer research questions in a manner that integrates a clear economic framework with careful empirical analysis. A secondary goal is to familiarize you with a wide array of empirical methods with which you can approach questions in the future.

Requirements:

There will be one final exam (30% of final grade), two graded homeworks (15% each) in each part of the course, and a paper requirement (20%). The paper should be a research proposal of about 10-15 pages length in which you sketch a research idea, summarize and organize the related literature, and propose a theoretical and empirical strategy for the realization of this idea. In addition, there will be two presentations in class, graded as part of class participation (10% each half of the course).

Part 1 (Anja Sautmann)

Literature list subject to change. Not all references will be covered in class, some are background reading or choices for presentations.

Background Reading:

- Bardhan, Pranab and Christopher Udry, 1999. *Development Microeconomics*.
- Ray, Debraj, 1998. *Development Economics*.

Introduction

Household Decision Making

Bardhan and Udry, Chapter 2

Becker, Gary S., "A Theory of Social Interactions", JPE 82(6), 1974, 1063-1093.

Browning, Martin and Pierre-Andre Chiappori, "Efficient Intra-Household Allocations: A General Characterization and Empirical Tests." *Econometrica* 1998.

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

Pitt, Mark, M.R. Rosenzweig, and Md. Nazmul Hassan, "Productivity, Health and Inequality in the Intra-household Distribution of Food in Low-Income Countries," *American Economic Review*, December 1990, 1139-1156.

Lundberg, Shelley and Robert Pollak, "Separate Spheres Bargaining and the Marriage Market" *Journal of Political Economy* 101(6), 1993, pp. 988-1010.

Population and Fertility

Bardhan and Udry, Chapter 3

Basu, Kaushik and Pham Hoang Van, "The Economics of Child Labor", *AER* 88(3), 1998, 412-427 (and reply in *AER* 89(5), 1999, 1386-1388).

Dasgupta, Partha, "An inquiry in to well-being and destitution, 1993, Oxford University Press.

Rosenzweig, M.R., "Fertility, Schooling and the Economic Contribution of Children in Rural India: An Econometric Analysis," *Econometrica*, 45(5), 1065-1079.

Rosenzweig, M., "Population Growth and Human Capital Investments: Theory and

Evidence”, JPE 98(5), 1990.

Ashraf, Nava, Erica Field, and Jean Lee, “Household Bargaining and Excess Fertility: An Experimental Study in Zambia”, mimeo, 2010.

Nutrition and Income

Bardhan and Udry, Chapter 4 section 1

Dasgupta and Ray, “Inequality as a Determinant of Malnutrition and Unemployment: Theory”, Economic Journal 96, 1986.

Strauss, John and Duncan Thomas, “Health, nutrition, and economic development”, JEL 36(2), 1998, 766-817.

Foster, Andrew and Mark R. Rosenzweig, "A Test for Moral Hazard in the Labor Market: Effort, Health and Calorie Consumption", Review of Economics and Statistics, May 1994, 213-227.

Strauss, John, "Does Better Nutrition Raise Farm Productivity?", Journal of Political Economy, 94(2), April 1986, 297-320.

Strauss, Johan and Duncan Thomas, “Health and Wages: Evidence on Men and Women in Urban Brazil”, Journal of Econometrics 77(1), 1997, 159-185.

Subramanian, Shankar and Angus Deaton, “The Demand for Food and Calories”, Journal of Political Economy, 1996, 133-162.

Deaton, Angus and Christina Paxson, “Economies of Scale, Household Size and the Demand for Food.” Journal of Political Economy, 1998.

Pitt, Mark, "Food Preferences and Nutrition in Rural Bangladesh," Review of Economics and Statistics, 1983, 105-114.

Gender, resource allocation and property rights

Geddes, Rick and Dean Lueck, “The Gains from Self-Ownership and the Expansion of Women’s Rights”, AER 92(4), 2002, 1079-1092.

Fernandez, Raquel, “Women’s Rights and Development”, mimeo, 2010.

Doepke, Matthias and Michele Tertilt, “Women’s Liberation: What’s in it for Men?”, QJE 124(4), 2009, 1541-1591.

Anderson, Siwan and Debraj Ray, “Missing Women: Age and Disease”, ReStud 77 (4), 2010.

Sen, Amartya, "Missing Women", *British Medical Journal* 304 (6827), 1992, 587-588.

Garg, Ashish and Jonathan Morduch, "Sibling Rivalry and Gender Gap: Evidence from Child Health Outcomes in Ghana." *Journal of Population Economics*, 1998.

Qian, Nancy, "Missing Women and the Price of Tea in China: The Effect of Sex-Specific Income on Sex Imbalance", *QJE* 123(3), 2008.

Marriage markets

Anderson, Siwan, "Why Dowry Payments Declined with Modernization in Europe But Are Rising in India", *JPE* 111(2), 2003, 269-310.

Zhang, Junsen and William Chan, "Dowry and Wife's Welfare: A Theoretical and Empirical Analysis", *JPE* 107(4), 1999, 786-808.

Fernandez, Raquel et al., "Love and Money: A Theoretical and Empirical Analysis of Household Sorting and Inequality", *QJE* 120(1), 2005, 273-344.

Distribution and Conflict

Miguel, Edward, "Poverty and Witch Killing." *Review of Economic Studies*, 2005.

Montalvo, J. and M. Reynal-Querol, "Ethnic Polarization, Potential Conflict and Civil Wars," *American Economic Review* 95, 2005, 796-815.

Collier, Paul and Anke Hoeffler, "Greed and Grievance in Civil War", *Oxford Economic Papers*, 56, 2004, 563-595.

Fearon, J. D. and D. D. Laitin, "Ethnicity, Insurgency, and Civil War", *American Political Science Review* 97(1), 2003, 75-90.

Dube, Oeindrila and Juan F. Vargas "Commodity Price Shocks and Civil Conflict: Evidence from Colombia", mimeo, 2007.

Esteban, Joan and Debraj Ray, "On the salience of ethnic conflict", *AER* 98(5), 2008, 2185-2202.

Esteban, Joan and Debraj Ray, "Linking Conflict to Inequality and Polarization", *AER* (forthcoming), 2010.

Part II (Sriniketh Nagavarapu)

Below, only the asterisked articles or chapters are required reading. The remaining articles are there in case you are interested in further exploring the topics. Beyond the articles listed below, useful references are:

Development economics:

- Bardhan and Udry (1999)
- Deaton (2000)
- Ray (1998)

Econometrics:

- Wooldridge (2002)
- Davidson and MacKinnon (1993)
- Todd (2008)
- MaCurdy (2007)
- Blundell and MaCurdy (1999)

1. Credit, Land, and Labor

Mar 15: Credit and Savings

- * Karlan and Morduch (2010)
- * Karlan and Zinman (2008)
- * Karlan and Zinman (2009)
- McKenzie, de Mel, and Woodruff (2008)
- Anderson, Baland, and Moene (2010)

Mar 17: Financial Constraints and Entrepreneurship

- * Wang (2010)
- * McKenzie, de Mel, and Woodruff (2008)
- Rosenzweig and Wolpin (1993)
- Dupas and Robinson (2009)
- Kremer, Duflo, and Robinson (2009)

Mar 22: Property Rights and Investment

- * Besley (1995)
- * Jacoby, Li, and Rozelle (2002)
- Goldstein and Udry (2008)

Besley and Ghatak (2010)
Field (2007)
Lanjouw and Levy (2002)
Foster and Rosenzweig (2004)
Zivin, Damon, and Thirumurthy (2010)

Mar 24: Land Reform and Productivity

* Banerjee, Gertler, and Ghatak (2002)
* Deininger and Jin (2005)
Banerjee, Mookherjee, Munshi, and Ray (2001)
Finan, Sadoulet, and de Janvry (2005)
Jeon and Kim (2000)
Lanjouw (1999)
Deininger and Feder (2001)
Binswanger, Deininger, and Feder (1995)

Apr 5: Labor Markets and Wages

* Foster and Rosenzweig (1996)
* Foster and Rosenzweig (1993)
Foster and Rosenzweig (1994)
Jayachandran (2006)
Edmonds (2006)

Apr 7: Labor Regulation

* Freeman (2010)
* Besley and Burgess (2004)
Gruber (1997)
Kingdon and Knight (2006)

Apr 12: Trade Reform

* Verhoogen (2008)
* Atkin (2010)
Hasan, Mitra, and Ramaswamy (2007)
Topalova (2005)
Goldberg and Pavcnik (2003)
Atkin (2009)
Donaldson (2009)
Edmonds and Pavcnik (2006)

2. Environment and Development

Apr 14: Deforestation

- * Foster and Rosenzweig (2003)
- * Alix-Garcia (2008)
- Baland, Bardhan, Das, Mookherjee, and Sarkar (2007)
- Edmonds (2002)
- Pfaff and et al. (2007)
- Pfaff (1999)
- Alix-Garcia, de Janvry, and Elisabeth Sadoulet (2008)
- Alix-Garcia, de Janvry, and Sadoulet (2005)

Apr 19: Air Pollution

- * Pitt, Rosenzweig, and Hassan (2007)
- * Gutierrez-Fernandez and Foster (2009)
- Jayachandran (2008)
- Duflo, Greenstone, and Hanna (2008)
- Gutierrez-Fernandez (2009)
- Almond, Chen, Greenstone, and Li (2009)
- Zheng, Khan, and Liu (2009)
- Oliva (2009)

Apr 21: Water Pollution

- * Lipscomb and Mobarak (2007)
- * Galiani, Gertler, and Schargrodsky (2005)
- Wang and Wheeler (2005)
- Gamper-Rabindran, Khan, and Timmins (2007)
- Field, Glennerster, and Hussam (2010)
- Bennett (2008)
- Kremer, Leino, Miguel, and Zwane (2008)
- Benbear, Soumya, Pfaff, Matin, van Geen, and Tarozzi (2010)

Apr 26: Water Management

- * Jacoby, Murgai, and Rehman (2004)
- * Sekhri (2007)
- Keskin (2009)
- Keskin (2010)
- Anderson (2011)
- Easter and Hearne (1993)

Apr 28: Energy and Infrastructure

- * McRae (2009)

* Duffo and Pande (2007)
Barham, Lipscomb, and Mobarak (2008)
Dinkelman (2007)

References

- ALIX-GARCIA, J. (2008): “An Exploration of the Positive Effect of Inequality on Common Property Forests,” *Journal of Development Economics*, 87, 92–105.
- ALIX-GARCIA, J., A. DE JANVRY, AND E. SADOULET (2005): “A Tale of Two Communities: Explaining Deforestation in Mexico,” *World Development*, 33(2), 219–235.
- ALIX-GARCIA, J., L. DE JANVRY, AND E. ELISABETH SADOULET (2008): “The Role of Deforestation Risk and Calibrated Compensation in Designing Payments for Environmental Services,” *Environment and Development Economics*, 13, 375–394.
- ALMOND, D., Y. CHEN, M. GREENSTONE, AND H. LI (2009): “Winter Heating or Clean Air? Unintended Impacts of China’s Huai River Policy,” *American Economic Review: Papers and Proceedings*, 99(2), 184–190.
- ANDERSON, S. (2011): “Caste as an Impediment to Trade,” *American Economic Journal: A*, 3, 239–263.
- ANDERSON, S., J.-M. BALAND, AND K. O. MOENE (2010): “Enforcement in Informal Saving Groups,” Working Paper.
- ATKIN, D. (2009): “Trade, Tastes and Nutrition in India,” Working Paper.
- (2010): “Endogenous Skill Acquisition and Export Manufacturing in Mexico,” Working Paper.
- BALAND, J.-M., P. BARDHAN, S. DAS, D. MOOKHERJEE, AND R. SARKAR (2007): “The Environmental Impact of Poverty: Evidence from Firewood Collection in Rural Nepal,” Working Paper.
- BANERJEE, A., P. GERTLER, AND M. GHATAK (2002): “Empowerment and Efficiency: Tenancy Reform in West Bengal,” *Journal of Political Economy*, 110, 239–280.
- BANERJEE, A., D. MOOKHERJEE, K. MUNSHI, AND D. RAY (2001): “Inequality, Control Rights and Rent Seeking: Sugar Cooperatives in Maharashtra,” *Journal of Political Economy*, 109(1), 138–190.
- BARDHAN, P., AND C. UDRY (1999): *Development Microeconomics*. Oxford University Press.
- BARHAM, T., M. LIPSCOMB, AND M. MOBARAK (2008): “Returns to Electricity: Evidence from the Geologic Placement of Hydropower Plants in Brazil,” Working Paper.

- BENNEAR, L., H. SOUMYA, A. PFAFF, A. K. MATIN, L. VAN GEEN, AND A. TAROZZI (2010): “Bright Lines, Risk Beliefs, and Risk Avoidance: Evidence from a Randomized Experiment in Bangladesh,” BREAD Working Paper No. 285.
- BENNETT, D. (2008): “Clean Water Makes You Dirty: Water Supply and Sanitation Behavior in the Philippines,” Working Paper.
- BESLEY, T. (1995): “Property Rights and Investment Incentives: Theory and Evidence from Ghana,” *Journal of Political Economy*, 103(5), 903–937.
- BESLEY, T., AND R. BURGESS (2004): “Can Labor Regulation Hinder Economic Performance? Evidence From India,” *Quarterly Journal of Economics*, 119, 91–134.
- BESLEY, T., AND M. GHATAK (2010): “Property Rights and Economic Development,” in *Handbook of Development Economics, Volume 5*, pp. 4525–4595. Elsevier.
- BINSWANGER, H., K. DEININGER, AND G. FEDER (1995): “Power, Distortions, Revolt and Reform in Agricultural Land Relations,” in *Handbook of Development Economics, Volume 3*, chap. 42. Elsevier.
- BLUNDELL, R., AND T. MACURDY (1999): “Labor Supply: A Review of Alternative Approaches,” in *Handbook of Labor Economics*. Elsevier.
- DAVIDSON, R., AND J. MACKINNON (1993): *Estimation and Inference in Econometrics*. Oxford University Press.
- DEATON, A. (2000): *The Analysis of Household Surveys*. The Johns Hopkins University Press.
- DEININGER, K., AND G. FEDER (2001): “Land Institutions and Land Markets,” in *Handbook of Agricultural Economics, Volume 1*. Elsevier.
- DEININGER, K., AND S. JIN (2005): “The potential of land rental markets in the process of economic development: Evidence from China,” *Journal of Development Economics*, 78, 241–270.
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- DONALDSON, D. (2009): “Railroads of the Raj: Estimating the Impact of Transportation Infrastructure,” Working Paper,.
- DUFLO, E., M. GREENSTONE, AND R. HANNA (2008): “Indoor Air Pollution, Health and Economic Well-Being,” *Surv. Perspect. Integr. Envir. Soc.*, 1, 1–9, Working Paper.
- DUFLO, E., AND R. PANDE (2007): “Dams,” *Quarterly Journal of Economics*, 122(2), 601–646.
- DUPAS, P., AND J. ROBINSON (2009): “Savings Constraints and Microenterprise Development: Evidence from a Field Experiment in Kenya,” NBER Working Paper no. 14693.
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- EDMONDS, E. (2002): “Government Initiated Community Resource Management and Local Resource Extraction from Nepal’s Forests,” *Journal of Development Economics*, 68(1), 89–115.
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- EDMONDS, E., AND N. PAVCNIK (2006): “Trade Liberalization and the Allocation of Labor Between Households and Markets in a Poor Country,” *Journal of International Economics*, 69(2), 272–295.
- FIELD, E. (2007): “Entitled to Work: Urban Property Rights and Labor Supply in Peru,” *Quarterly Journal of Economics*, pp. 1561–1602.
- FIELD, E., R. GLENNERSTER, AND R. HUSSAM (2010): “Throwing the Baby Out with the Drinking Water: Unintended Consequences of Arsenic Mitigation Efforts in Bangladesh,” Working Paper.
- FINAN, F., E. SADOULET, AND A. DE JANVRY (2005): “Measuring the Poverty Reduction Potential of Land in Rural Mexico,” *Journal of Development Economics*, 77(1), 27–51.
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- (2004): “Technological Change and the Distribution of Schooling: Evidence from Green-Revolution India,” *Journal of Development Economics*, 74(1), 87–111.
- FOSTER, A. D., AND M. R. ROSENZWEIG (1993): “Information, Learning, and Wage Rates in Low-Income Rural Areas,” *Journal of Human Resources*, 28(4), 759–790.
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- GOLDSTEIN, M., AND C. UDRY (2008): “The Profits of Power: Land Rights and Agricultural Investment in Ghana,” *Journal of Political Economy*, 116, 981–1022, Working Paper.
- GRUBER, J. (1997): “The Incidence of Payroll Taxation: Evidence from Chile,” *Journal of Labor Economics*, 15, 72–101.
- GUTIERREZ-FERNANDEZ, E. (2009): “Using Satellite Imagery to Measure the Relationship between Air Quality and Infant Mortality: An Empirical Study for Mexico,” Working Paper.
- GUTIERREZ-FERNANDEZ, E., AND A. FOSTER (2009): “Direct and Indirect Effects of Voluntary Certification: Evidence from the Mexican Clean Industry Program,” Working Paper.
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- KINGDON, G. G., AND J. KNIGHT (2006): “How Flexible Are Wages in Response to Local Unemployment in South Africa?,” *Industrial and Labor Relations Review*, 59, 471–495.

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- KREMER, M., J. LEINO, E. MIGUEL, AND A. ZWANE (2008): “Spring Cleaning: Rural Water Impacts, Valuation, and Institutions,” Working Paper.
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- OLIVA, P. (2009): “Environmental Regulations and Corruption: Automobile Emissions in Mexico City,” Working Paper.
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