

Economics 265: Agriculture and Economic Development

*University of California, Riverside
Winter 2015*

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Winter 2015 Office Hours:
Mon. 10:00-12pm
or by appointment

Course Description

The goal of this course is to expose students to a variety of issues and techniques that could be explored further in the writing of a dissertation. The focus will be on economic development in general and issues related to the agricultural sectors in developing countries in particular. The course will adopt a quantitative approach to policy analysis. It seeks to provide students with an understanding of how to integrate microeconomic theory and econometrics in order to assess the welfare, efficiency, and effectiveness of alternative policies.

Course Requirements

The grade for the course will be calculated as a weighted average of the following components:

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| 1. A 15-20 page paper related to a topic on the syllabus
The paper will be due on the last day of class. | 50% |
| 2. Provide references, present, and lead the discussion in class
for one area of research. | 10% |
| 3. A journal with 10 reaction pieces to readings on the syllabus
(One reaction piece will be due each week. These should have about
one page of summary and one page of critical analysis for each reading.) | 20% |
| 4. Presentations and class participation | 20% |

Students are required to be present during the scheduled final exam. Final papers will be presented during this time.

Brief Course Outline

1. Introduction

- a) *Quantitative Analysis of Development Policy*
- b) *Agricultural Issues in Developing Countries*
- c) *Agriculture for Development, The World Development Report 2008*

2. Measures of Agricultural Protection: Indicators and Applications

3. Household Models: Theory and Applications

4. Productivity, Efficiency, and Farm Size

- a) *Agricultural Productivity and Development*
- b) *Efficiency and Productivity Measurement*
- c) *Farm Size and Productivity*
- d) *Adoption of New Technologies*
- e) *The Fertilizer Subsidy Debate*

5. Poverty and Income Diversification

- a) *Poverty, Growth, and Distribution*
- b) *Income Diversification and Pathways Out of Poverty*

6. Land Reform and Land Markets

7. Student Topics (2 weeks)

- 1. *Asset based approaches to poverty*
- 2. *Rural non-farm employment and pathways out of poverty*
- 3. *Synergies between CCTs and rural development policies*
- 4. *India's National Rural Employment Guarantee Act (NREGA)*

Course Outline and Readings

1. Introduction

a) *Quantitative Analysis of Development Policy*

Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read the preface and chapter 1.

Bardhan, Pranab. 1988. "Alternative Approaches to Development Economics," in *Handbook of Development Economics*, edited by H. Chenery and T. N. Srinivassan, Amsterdam: North-Holland.

de Janvry, Alain, Andre Fargeix, and Elisabeth Sadoulet. 1992. "The Political Feasibility of Rural Poverty Reduction," *Journal of Development Economics* 37:351-367.

de Janvry, Alain, and Elisabeth Sadoulet. 1989. "Alternative Approaches to the Political Economy of Agricultural Policies: Convergence of Analytics, Divergence of Implications," in *Agriculture and Governments in an Interdependent World*. Proceedings of the Twentieth International Conference of Agricultural Economists (1988), edited by Allen Maunder and Alberto Valdés, Brookfield, Vt.: Gower.

Just, Richard, Darell Hueth, and Andrew Schmitz. 1982. *Applied Welfare Economics and Public Policy*, Englewood Cliffs, N.J.: Prentice Hall.

Stiglitz, Joseph E. 1989. "On the Economic Role of the State," chapter 1 in *The Economic Role of the State*, edited by Arnold Heertje, Oxford: Basil Blackwell Ltd.

b) *Agricultural Issues in Developing Countries*

Barrett, C.B., M.R. Carter, and C.P. Timmer. 2010. A Century-long Perspective on Agricultural Development. *American Journal of Agricultural Economics* 92(2): 447-468.

Bernstein, H. and Terence Byres, "From Peasant Studies to Agrarian Change," *Journal of Agrarian Change*, Vol. 1, No. 1, January 2001, 1-56.

Binswanger, H. P and Klaus Deininger. 1997. "Explaining Agricultural and Agrarian Policies in Developing Countries," *Journal of Economic Literature*, 35:1958-2005.

Hoff, Karla, Avishay Braverman, and Joseph E. Stiglitz. 1993. "Introduction" in *The Economics of Rural Organization: Theory, Practice and Policy*, edited by Hoff, Braverman, and Stiglitz, New York: Oxford University Press.

Staatz, John M. and Carl K. Eicher. 1998. "Agricultural development Ideas in Historical Perspective," in *International Agricultural Development*, 3rd edition, edited by Carl K. Eicher and John M. Staatz, Baltimore: The Johns Hopkins University Press.

Stiglitz, Joseph. 1987. "Some Theoretical Aspects of Agricultural Policies," *The World Bank Research Observer* 2(1):43-60.

Thorbecke, Erik, "The Evolution of the Development Doctrine, 1950-2005," Mimeo 2009.

c) *Agriculture for Development, The World Development Report 2008*

Overview (pp. 1-25, WDR 2008)

Growth and Poverty Reduction in Agriculture's Three Worlds (Chapter 1, WDR 2008)

Emerging National Agendas for Agriculture's Three Worlds (Chapter 10, WDR 2008)

Pingali, Prabhu, "Agricultural Renaissance: Making "Agriculture for Development" Work in the 21st Century." Chapter 74 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.

2. Measures of Agricultural Protection: Indicators and Applications

- Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read chapter 7.
- Anderson, Kym, and Yujiro Hayami. 1986. *The Political Economy of Agricultural Protection*. London: Allen and Unwin, Ltd.
- Anderson, Kym, "Political Economy of Distortions to Agricultural Incentives: Introduction and Summary," Agricultural Distortions Working Paper 91, World Bank, May 2009.
- Anderson, Kym, "Krueger/Schiff/Valdés Revisited: Agricultural Price and Trade Policy Reform in Developing Countries since 1960," *Policy Research Working Paper 5165*, Development Research Group, World Bank, January 2010.
- Anderson, Kym, and Will Martin (eds.), *Distortions to Agricultural Incentives in Asia*, Washington, D.C.: World Bank, 2009.
- Anderson, Kym, and Alberto Valdés (eds.), *Distortions to Agricultural Incentives in Latin America*, Washington, D.C.: World Bank, 2008.
- Beghin, John C., and Larry S. Karp. 1991. "Estimation of Price Policies in Senegal: An Empirical Test of Cooperative Game Theory," *Journal of Development Economics*, Vol. 35, No. 1, pp.49-67.
- David, Cristina C., and Jikun Huang. 1996. "Political Economy of Rice Protection in Asia," *Economic Development and Cultural Change*, Vol. 44, No. 3, pp. 463-483.
- Fulginiti, Lilyan E., and Jason F. Shogren. 1992. "Agricultural Protection in Developing Countries," *American Journal of Agricultural Economics*, Vol. 74, No. 3, pp. 795-801.
- Gardner, Bruce. 1987. *The Economics of Agricultural Policies*. New York: Macmillan.
- Gardner, Bruce L. 1987. "Causes of U.S. Farm Commodity Programs," *Journal of Political Economy*, Vol. 95, No. 2, pp. 290-310.
- Helfand, Steven M., "Interest Groups and Economic Policy: Explaining the Pattern of Protection in the Brazilian Agricultural Sector." *Contemporary Economic Policy*, Vol. 18, No. 4, October 2000, pp. 462-476.
- Krueger, Anne O., Maurice Schiff, and Alberto Valdés. 1988. "Agricultural Incentives in Developing Countries: Measuring the Effect of Sectoral and Economywide Policies," *The World Bank Economic Review*, Vol. 2, No. 3, 255-72.
- Krueger, Anne O. 1992. *The Political Economy of Agricultural Pricing Policy, Volume 5: A Synthesis of the Political Economy in Developing Countries*, Baltimore: The Johns Hopkins University Press.
- Schiff, Maurice, and Alberto Valdés. 1992. *The Political Economy of Agricultural Pricing Policy, Volume 4: A Synthesis of the Economics in Developing Countries*, Baltimore: The Johns Hopkins University Press.
- Swinnen, Johan, "Political Economy of Agricultural Distortions: The Literature to Date," Agricultural Distortions Working Paper 77, World Bank, May 2009.

- Tsakok, Isabelle. 1990. *Agricultural Price Policy: A Practitioner's Guide to Partial-Equilibrium Analysis*, Ithaca: Cornell University Press.
- Zusman, Pinhas, and Amotz Amiad. 1977. "A Quantitative Investigation of a Political Economy: The Israeli Dairy Program," *American Journal of Agricultural Economics*, Vol. 59, No. 1, pp. 88-98.

3. Household Models: Theory and Applications

- Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read chapter 6.
- Singh, Inderjit, Lyn Squire, and John Strauss, eds. 1986. *Agricultural Household Models*. Baltimore: Johns Hopkins University Press.
- Azam, Jean-Paul, and Timothy Besley. 1991. "Peasant Supply Response under Rationing: The Role of the Food Market," *European Journal of Political Economy* 7:331-43.
- Bardhan, Pranab, and Christopher Udry, *Development Microeconomics*, New York: Oxford University Press, 1999. Read Chapter 2, "Household Economics."
- Becker, Gary. 1965. "A Theory of the Allocation of Time," *Economic Journal* 75:493-517.
- Benjamin, Dwayne. 1992. "Household Composition, Labor Markets, and Labor Demand: Testing for Separation in Agricultural Household Models," *Econometrica* 60:287-322.
- Brooks, J. et al. (2011), "Modelling the Distributional Implications of Agricultural Policies in Developing Countries: The Development Policy Evaluation Model (DEVPEM)", OECD Food, Agriculture and Fisheries, Papers, No. 50, OECD.
- Bourguignon, Francois, and Pierre-Andre Chiapriorri. 1992. "Collective Models of Household Behavior," *European Economic Review* 36:355-64.
- de Janvry, Alain, and Elisabeth Sadoulet. 2005. "Progress in the Modeling of Rural Households' Behavior Under Market Failures," Chapter 9 in *Poverty, Inequality and Development: Essays in Honor of Erik Thorbecke*, Springer Publishers.
- de Janvry, Alain, and Elisabeth Sadoulet. 1996. "Household Modeling for the Design of Poverty Alleviation Strategies," Working Paper No. 787, Department of Agricultural and Resource Economics, University of California, Berkeley.
- de Janvry, Alain, M. Fafchamps, and E. Sadoulet. 1991. "Peasant Household Behavior with Missing Markets: Some Paradoxes Explained," *Economic Journal* 101:1400-17.
- Henning, H.C.A., and A. Henningsen. 2007. Modeling Farm Households Price Responses in the Presence of Transactions Costs and Heterogeneity in labor Markets," *American Journal of Agricultural Economics*, 89(3), pp. 665-81.
- Ellis, Frank. 1989. *Peasant Economics: Farm Households and Agrarian Development*. Cambridge: Cambridge University Press.
- Jacoby, H.G. and Bart Minten, "On Measuring the Benefits of Lower Transportation Costs," *Journal of Development Economics*, 89, 2009, pp. 28-38.
- Lopez, Ramon. 1984. "Estimating Labour Supply and Production Decisions of Self-Employed Farm Producers," *European Economic Review* 24:61-82.
- Quisumbing, Agnes R. (ed.), *Household Decisions, Gender, and Development*, Washington D.C.: International Food Policy Research Institute, 2003.

- Pfeiffer, L., A. López-Feldman, and J.E. Taylor. 2009. "Is off-farm Income Reforming the Farm? Evidence from Mexico." *Agricultural Economics* 40, pp. 125–138.
- Reardon, Thomas, Christopher Delgado, and Peter Matlon. 1992. "Determinants and Effects of Income Diversification Amongst Farm Households in Burkina Faso," *Journal of Development Studies* 28:264-96.
- Sadoulet, E., Alain de Janvry and C. Benjamin, "Labor Market Imperfections and Selective Separability in Household Models: A Predictive Typology of Mexican Ejidatarios," mimeo.
- Taylor, J.E., G. Dyer, and A. Yúnez-Naude. 2005. "Disaggregated Rural Economywide Models for Policy Analysis," *World Development*, 33(10): 1671-88.
- Udry, C. 1996. "Gender, Agricultural Production, and the Theory of the Household." *Journal of Political Economy* 104, pp. 1010-46.

4. Productivity, Efficiency, and Farm Size

a) Agricultural Productivity and Development

- Avila, Antonio Flavio Dias and Robert E. Evenson, "Total Factor Productivity Growth in Agriculture: The Role of Technological Capital," Chapter 72 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.
- Gollin, Douglas, "Agricultural Productivity and Economic Growth," Chapter 73 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.
- Fan, Shenggen and Joanna Brzeska, "Production, Productivity, and Public Investment in East Asian Agriculture," Chapter 66 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.
- Avila, Antonio Flavio Dias, Luis Romano, and Fernando Garagorry, "Agricultural Productivity in Latin America and the Caribbean and Sources of Growth," Chapter 71 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.

b) Farm Size and Productivity

- Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read chapter 9.
- Assunção, J. and L. Braido, 2007. "Testing Household-Specific Explanations for the Inverse Productivity Relationship," *American Journal of Agricultural Economics* 89(4): 980-90.
- Barrett, C. B. 1996. "On Price Risk and the Inverse Farm Size-Productivity Relationship," *Journal of Development Economics* 51(2):193-216.
- Barrett, C. B., M.F. Bellemare, and J.Y. Hou, 2010. "Reconsidering Conventional Explanations of the Inverse Productivity-Size Relationship," *World Development*, 38(1), 88-97.
- Benjamin, D. 1995. "Can Unobserved Land Quality Explain the Inverse Productivity Relationship," *Journal of Development Economics* 46(1):51-84.
- Berry, R Albert, and William Cline. 1979. *Agrarian Structure and Productivity in Developing Countries*, Baltimore: Johns Hopkins University Press.

- Carletto, Calogero, Sara Savastano, and Alberto Zezza, 2013. "Fact or Artifact: The Impact of Measurement Errors on the Farm Size–Productivity Relationship," 103, 254-261.
- Carter, M. 1984. "Identification of the Inverse Relationship between Farm Size and Productivity," *Oxford Economic Papers* 36:131-45.
- Collier, Paul, and Stefan Dercon, 2009. "African Agriculture in 50 Years: Smallholders in a Rapidly Changing World," FAO Expert Meeting on How to Feed the World in 2050, 24-26.
- Cornia, Andrea. 1985. "Farm Size, Land Yields, and the Agricultural Production Function: An Analysis for Fifteen Developing Countries," *World Development* 13(4):513-34.
- Deininger, Klaus, and Derek Byerlee, "The Rise of Large Farms in Land Abundant Countries: Do They Have a Future?" *World Development* Vol. 40, No. 4, pp. 701-714, 2012.
- Eastwood, Robert, Michael Lipton, and Andrew Newell, "Farm Size," Chapter 65 in *Handbook of Agricultural Economics*, Vol. 4, edited by Prabhu Pingali and Robert Evenson, Amsterdam and New York: Elsevier, 2010.
- Eswaran, Mukesh, and Ashok Kotwal. 1985. "A Theory of Contractual Structure in Agriculture," *American Economic Review* 75(3):352-67.
- Eswaran, Mukesh, and Ashok Kotwal. 1986. "Access to Capital and Agrarian Production Organisation," *Economic Journal* 96:482-98.
- Feder, Gershon. 1985. "The Relation between Farm Size and Farm Productivity: The Role of Family Labor, Supervision and Credit Constraints," *Journal of Development Economics* 18:297-313.
- Hazell, P., C. Poulton, S. Wiggins, and A. Dorward. 2007. "The Future of Small Farms for Poverty Reduction and Growth." *IFPRI 2020 Discussion Paper 42*, May 2007.
- Helfand, Steven M., and Edward S. Levine, "Farm Size and the Determinants of Productive Efficiency in the Brazilian Center-West," *Agricultural Economics*, 31, 2004, 241-49.
- Lamb, Russell L. 2003. "Land Quality, Labor Markets, and Measurement Error," *Journal of Development Economics*, 71: 71-95.

c) Efficiency and Productivity Measurement

- Ali Mubarak, and John Flinn. 1989. "Profit Efficiency Among Basmati Rice Producers in Pakistani Punjab," *American Journal of Agricultural Economics* 71(2):303-10.
- Ball, Eldon V., "Output, Input, and Productivity Measurement in U.S. Agriculture, 1948-79," *American Journal of Agricultural Economics*, V. 67, August, 1985, 475-86.
- Capalbo, Susan M. and John M. Antle, *Agricultural Productivity: Measurement and Explanation*, Washington, D.C.: Resources for the Future, 1988.
- Coelli, Tim, D.S. Prasada Rao, and George E. Battese, *An Introduction to Efficiency and Productivity Analysis*, Norwell: Kluwer Academic Publishers, 1999.
- Fulginiti, Lilyan E., and Richard K. Perrin, "LDC Agriculture: Nonparametric Malmquist Productivity Indexes," *Journal of Development Economics*, Vol. 53, 1997, pp. 373-90.
- Fulginiti, Lilyan, and Richard Perrin. 1993. "Prices and Productivity in Agriculture," *The Review of Economics and Statistics* 75(3):471-82.
- Fuwa, N., C. Edmonds, and P. Banik. 2007. "Are Small-Scale Rice Farmers in Eastern India Really Inefficient? Examining the Effects of Microtopography on Technical Efficiency Estimates." *Agricultural Economics* 36: 335-46.
- Headey, Derek, M. Alauddin, D. Rao. 2010. "Explaining Agricultural Productivity Growth: An International Perspective." *Agricultural Economics* 41: 1-14.

- Gerdin, Anders, "Productivity and Economic Growth in Kenyan Agriculture, 1964-96," *Agricultural Economics* 28, 2003, 7-13.
- Hayami, Yujiro, and Vernon W. Ruttan, *Agricultural Development: An International Perspective*, Baltimore: John Hopkins University Press, 1985.
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- Moreira, V., B.E. Bravo-Ureta, R. Dunner, and R. Vidal, "Total Factor Productivity Change in Dairy Production in Southern Chile: Is Farm Size Significant?" Presented at the International Association of Agricultural Economists (IAAE) Triennial Conference, Foz do Iguaçu, Brazil, 18-24 August, 2012.
- Newman, Carol, and Alan Matthews, 2007. "Evaluating the Productivity Performance of Agricultural Enterprises in Ireland using a Multiple Output Distance Function Approach," *Journal of Agricultural Economics*, Vol. 58, No. 1, 128-151.
- Rada, Nicholas E., Steven T. Buccola and Keith O. Fuglie, 2011. "Government Policy and Agricultural Productivity in Indonesia," *American Journal of Agricultural Economics*, 93(3): 867-884.
- Rasmussen, Svend, 2010. "Scale Efficiency in Danish Agriculture: An Input Distance-Function Approach," *European Review of Agricultural Economics*, Vol. 37 (3), 335-367.
- Thiam, A., B.E. Bravo-Ureta, and T.E. Rivas, "Technical Efficiency in Developing Country Agriculture: A Meta Analysis," *Agricultural Economics*, V. 25, 2001, pp. 235-43.
- Wu, Shunxiang, David Walker, Stephen Devadoss, and Yao-chi Lu, "Productivity Growth and its Components in Chinese Agriculture after Reforms," *Review of Development Economics*, Vol. 5, No. 3, 2001, pp. 375-391.

d) Adoption of New Technologies

- Conley, T. G. & C. R. Udry. 2010. Learning about a New Technology: Pineapple in Ghana. *The American Economic Review*, 100(1), 35-69
- Genius, M., P., Koundouri, C., Nauges, and V. Tzouvelekas. 2013. Information Transmission in Irrigation Technology Adoption and Diffusion: Social Learning, Extension Services and Spatial Effects. *American Journal of Agricultural Economics* 96(1): 328-344.
- Feder, Gershon, Richard Just, and David Zilberman, "Adoption of Agricultural Innovations in Developing Countries: A Survey," *Economic Development and Cultural Change* 33 (1985): 255-298.

- Foster, Andrew., and Mark Rosenzweig, "Learning By Doing and Learning from Others: Human Capital and Technical Change in Agriculture," *Journal of Political Economy* (1995).
- Lambrecht, I., Vanlauwe, B., Merckx, R., and M. Maertens. 2014. Understanding the Process of Agricultural Technology Adoption: Mineral Fertilizer in Eastern DR Congo. *World Development*, 59, 132-146.
- Moser, C.M., and C.B. Barrett. 2006. The Complex Dynamics of Smallholder Technology Adoption: The Case of SRI in Madagascar. *Agricultural Economics* 35(3): 373–388.

e) The Fertilizer Subsidy Debate

- Duflo, Esther, Michael Kremer and Jonathan Robinson, 2011. "Nudging Farmers to Use Fertilizer: Theory and Experimental Evidence from Kenya," *American Economic Review*, 101(6): October, 2350-2390.
- Marenya, P. P., and C. B. Barrett. 2009. State-Conditional Fertilizer Yield Response on Western Kenyan Farms. *American Journal of Agricultural Economics*, 91(4), 991-1006.
- Ricker-Gilbert, J., Jayne, T. S. , and E Chirwa. 2011. Subsidies and Crowding Out: A Doublehurdle Model of Fertilizer Demand in Malawi. *American Journal of Agricultural Economics*, 93(1), 26-42.
- Wiggins, Steve and Jonathan Brooks, 2012. "The Use of Input Subsidies in Low Income Countries," Chapter 5 in Brooks, Jonathan (Ed.) *Agricultural Policies for Poverty Reduction*, Paris: OECD.

5. Poverty and Income Diversification

- Lipton, Michael, and Martin Ravallion. 1995. "Poverty and Policy," Chapter 41 in *Handbook of Development Economics Vol. IIIB*, edited by Behrman, Jere, and T.N. Srinivasan. Amsterdam: Elsevier.
- Ravallion, M. "Evaluating Anti-Poverty Programs."2008. Chapter 59 in *Handbook of Development Economics Vol. 4*, edited by T. P. Schultz, and J. Strauss. Amsterdam: Elsevier.
- Ravallion, Martin. 1994. *Poverty Comparisons*, Chur, Switzerland: Harwood Academic Publishers.

a) Poverty, Growth, and Distribution

- Bresciani, Fabrizio, and Alberto Valdés (eds.), *Beyond Food Production: The Role of Agriculture in Poverty reduction*, Northampton: FAO and Edward Elgar Publishing, 2007.
- Datt, G. and M. Ravallion. 1998. "Why Have Some States Done Better than Others at Reducing Rural Poverty." *Economica* 65:257, 17-38.
- Datt, G. and M. Ravallion. 1992. "Growth and Redistribution Components of Changes in Poverty Measures: A Decomposition with Applications to Brazil and India in the 1980s." *Journal of Development Economics* 38: 275-95.
- de Janvry, Alain, and Elisabeth Sadoulet, "Rural Poverty in Latin America: Determinants and Exit Paths," *Food Policy*, Vol. 25, 2000, pp. 389-409.
- Dorward, Andrew, Jonathan Kydd, Jamie Morrison and Ian Urey, "A Policy Agenda for Pro-Poor Agricultural Growth," *World Development*, Vol. 32, No. 1, 2003, pp. 73-89.

Ferreira, F., P. Leite, M. Ravallion. 2009. "Poverty Reduction without Economic Growth?: Explaining Brazil's Poverty Dynamics, 1985–2004." *Journal of Development Economics*.
 Ravallion, Martin, and Guarav Datt, "Why Has Economic Growth Been More Pro-Poor in Some States of India than Others," *Journal of Development Economics*, 68, 381-400, 2002.
 Thirtle, Colin, Lin Lin, and Jenifer Piesse, "The Impact of Research-Led Agricultural Productivity Growth on Poverty Reduction in Africa, Asia and Latin America," *World Development*, Vol. 32, No. 12, 2003, 1959-75.
 World Bank, *World Development Report 2008*, "Rural Households and their Pathways out of Poverty," Chapter 3, pp. 72-95.

b) Income Diversification and Pathways Out of Poverty

Bezu, S. and C. B. Barrett. 2012. "Employment Dynamics in the Rural Nonfarm Sector in Ethiopia: Do the Poor Have Time on Their Side?" *Journal of Development Studies* 48(9): 1223-1240.
 Bezu, S., C.B. Barrett and S. Holden. 2012. "Does the Non-Farm Economy Offer Pathways for Upward Mobility? Evidence from a Panel Data Study in Ethiopia." *World Development* 40(8): 1634-1646.
 Chawanote, C. and C.B. Barrett, 2014. "Farm and Non-farm Occupational and Earnings Dynamics in Rural Thailand," Mimeo, February.
 Christiaensen, Luc, and Yasuyuki Todo, "Poverty Reduction during the Rural-Urban Transformation - The Role of the Missing Middle ," Mimeo, May 2009.
 Davis, B., P. Winters, T. Reardon, and K. Stamoulis. 2009. "Rural Nonfarm Employment and Farming: Household-Level Linkages," *Agricultural Economics*, Vol. 40, pp. 119-23.
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 Ellis, Frank, *Rural Livelihoods and Diversity in Developing Countries*, New York: Oxford University Press, 2000.
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 Haggblade, S., P. Hazell and T. Reardon, October 2010. "The Rural Non-farm Economy: Prospects for Growth and Poverty Reduction". *World Development*, 38(10): 1429-1441.
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 Jonasson, Erik, and Steven Helfand, "How Important are Locational Characteristics for Ruran Non-Agricultural Employment? Lessons from Brazil," *World Development*, V. 38, N. 5, 2010, pp. 727-741.
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Lanjouw, Peter, and Rinku Murgai. 2009. "Poverty Decline, Agricultural Wages, and Nonfarm Employment in Rural India: 1983-2004," *Agricultural Economics*, Vol. 40, pp. 243-63.

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Nargis, N. and M. Hossain, 2006. "Income Dynamics and Pathways Out of Rural Poverty in Bangladesh, 1988-2004." *Agricultural Economics* 35: 425-435.

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Owusu, Victor and Awudu Abdulai, "Nonfarm Employment and Poverty Reduction in Rural Ghana: A Propensity-Score Matching Analysis," paper presented at the International Association of Agricultural Economists Conference, Beijing, China, August 16-22, 2009.

Pfeiffer, Lisa, A. López-Feldman, and J.E. Taylor. 2009. "Is Off-Farm Income Reforming the Farm: Evidence from Mexico," *Agricultural Economics* Vol. 40, pp. 125-138.

Reardon, Thomas, Julio Berdegue, and German Escobar, "Rural Nonfarm Employment and Incomes in Latin America: Overview and Policy Implications," *World Development*, V. 29, N. 3, March 2001, pp. 395-409.

World Development, special issue on "Rural Nonfarm Employment and Incomes in Latin America: Overview and Policy Implications," V. 29, N. 3, March 2001. See articles on Brazil, Chile, Colombia, Ecuador, El Salvador, Honduras, Mexico, Nicaragua, and Peru.

World Bank, *World Development Report 2008*, "Moving Beyond the Farm," Chapter 9, pp. 202-25.

c) Cash Transfer Programs: Issues and Impacts

Agüero, Jorge; Michael Carter and Ingrid Woolard. "The Impact of Unconditional Cash Transfers on Nutrition: The South African Child Support Grant." Mimeo, 2009.

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7. Student Topics (Approximately 2 weeks)