**Economics 642**

**Poverty, Human Resources and Economic Development**

John Strauss Fall 2020

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This course is concerned with microeconomic issues in developing countries. We will be concerned with the household as the major unit of analysis, although families and individuals will be explored as well. Human capital accumulation and its effects are stressed. Most, but not all, of the models and analyses covered in 642 will be static.

The readings begin with a section on the concepts and measurement of poverty. We will not cover this in class, this is for your use if needed. The course will start with an introduction to the basic, static model of household production and work into applications on labor supply and human capital investments in health, education and fertility. We will conclude by discussing issues of allocation decisions within households. Throughout we will then examine issues related to program evaluation and social experiments.

I will presume a general knowledge of development economics and of what the major policy issues are, such as is taught in EC 340. An important goal of the course is to help students build their empirical skills. Critical evaluation of empirical studies will be an integral part of the course, consequently a good working knowledge of graduate-level microeconomic theory and of econometrics (hopefully including micro-econometrics) will be important. Good reviews with a micro-development focus are provided by Angrist and Pischke (2009), Deaton (1995,1997), Heckman (2001) and Wooldridge (2010). The recent book by Imbens and Rubin is excellent.

The course reading list is designed as a set of references. We will only be covering a small number of readings, starred ones. I will let you the week before which readings we will cover in the following week. Readings you can download from the web, either JSTOR or from the author’s site. Some unpublished papers hard to get I will load to Blackboard.

There will be a take home midterm which concentrates on an understanding of the basic household production model (50%) and a review of some papers, and a home final exam in which you will be asked to evaluate a series of scientific papers which we will not yet have read (50%).

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to a TA) as early in the semester as possible. DSP is located in STU 301 and is open 8:30AM-5PM, Monday-Friday. The phone number for DSP is (213)740-0776.

Background readings in development economics:

Schaffner, J. (2014). *Development Economics,* John Wiley.

Banerjee, A. and E. Duflo. (2011). *Poor Economics*, Public Affairs. (and the 2 reviews in March 2012 *Journal of Economic Literature* by M. Ravallion and M.R. Rosenzweig).

World Bank, various years (each year focuses on a different topic). *World Development Report*, Oxford: Oxford University Press.

**0. Background econometrics**

\* Deaton, A., 1997. *The Analysis of Household Surveys: Microeconometric Analysis for Development Policy*, Johns Hopkins Press, chapters 1 and 2, pp.7-131.

Angrist, J. and J-S. Pischke, 2009. *Mostly Harmless Econometrics*, Princeton: Princeton University Press.

Imbens, G. and D. Rubin.2015. *Causal Inference in Statistics, Social, and Biomedical*

*Sciences: An Introduction*, Cambridge University Press.

Deaton, A., 1995. Data and econometric tools for development economics, in T.N. Srinivasan and J. Behrman (eds.), *Handbook of Development Economics, Volume 3A*, Amsterdam: North Holland Press.

Heckman, J. 2001. Micro Data, Heterogeneity and the Evaluation of Public Policy: Nobel Lecture, *Journal of Political Economy*, 109:673-748.

Wooldridge, J. 2010. *Econometric Analysis of Cross Section and Panel Data, 2nd Edition*, MIT Press especially chapters 5, 9, 10, and 15-18.

Imbens, G. and Wooldridge, J. 2008. Lectures in Microeconometrics, IRP, University of Wisconsin.

Imbens, Guido and Jeffrey Wooldridge. 2009. “Recent developments in the econometrics of program evaluation”, *Journal of Economic Literature*, 47(1):5-86.

Angrist, J. and J-S Pischke. 2009. *Mostly Harmless Econometrics*, chapters 4,5,6

M. Ravallion. 2008. Evaluating anti-poverty programs, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Todd, P. 2008. Evaluating social programs with endogenous program placement and selection of the treated, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Duflo, E., R. Glennerster and M. Kremer. 2008. Using randomization in development economics research: A toolkit, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Moffitt, R. (1991). Program evaluation with nonexperimental data, *Evaluation Review*, 15.3:291-314.

Blundell, R. and M. Costa Dias. (2009). Alternative approaches to evaluation in empirical microeconomics, *Journal of Human Resources*, 44(3):565-640.

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

Heckman, James J. 2010. Building bridges between structural and program evaluation approaches to evaluating policy, *Journal of Economic Literature*, 48(2):356-398.

Imbens, Guido. 2010. Better LATE than nothing: Some comments on Deaton (2009) and Heckman and Urzua (2009), *Journal of Economic Literature*, 48(2):399-423.

Imbens, Guido and Thomas Lemieux. 2008. “Regression discontinuity designs: A guide to practice”, *Journal of Econometrics*, 142(2):615-635.

Bertrand, Marianne, Esther Duflo and S. Mullainathan. 2004. “How much should we trust difference-in-difference estimates?” *Quarterly Journal of Economics*, 119:249-275.

Rosenzweig, M. and K. Wolpin. 2000. Natural “Natural Experiments” in Economics, *Journal of Economic Literature*, 38:827-74.

Heckman, J. (1997). Instrumental Variables: A Study of Implicit Behavioral Assumptions in One Widely Used Estimator, *Journal of Human Resources*, 32:441-62.

Dehejia, R. and S. Wahba. 2002. Propensity Score-Matching Methods for Nonexperiemental Causal Studies, *Review of Economics and Statistics*, 84:151-61.

Smith, Jeffrey and Petra Todd. 2008. “Does matching overcome LaLonde’s critique of non-experimental estimators”, *Journal of Econometrics*, 125(1-2):305-353.

Van der Klaauw, Wilbert. 1996. “A regression-discontinuity evaluation of the effect of financial aid offers on college enrollment”, *International Economic Review,*

**I. Poverty, inequality and its measurement** (Good readings, but we will not cover it in class)

*A. Theory of Poverty and Inequality Measurement*

\* Duclos, J-Y and A-K Araar (2005). *Poverty and Equity: Measurement, Policy and Estimation with DAD*, manuscript, chapters 1-6, 9-11

\* Ravallion, M. (2015). *The Economics of Poverty*, Oxford University press

Fields, G. (2001). *Distribution and Development*, Cambridge: MIT Press, chapters 1, 2, 4, 6, 8

Deaton, A. (1997). *The Analysis of Household Surveys*, chapter 3.1.

Ravallion, M. (1994). *Poverty Comparisons*, Harwood Academic Publishers.

Atkinson, A.B. (1987). On the Measurement of Poverty, *Econometrica*, 55.4:749-764.

*B. Empirical studies*

\*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.

\*Ravallion, M. 2012. Why don’t we see poverty convergence?, *American Economic Review*, 102(1):504-523.

\* Ravallion, M. and B. Bidani (1994). How robust is a poverty profile, *World Bank Economic Review*, 8.1:75-102.

\* Deaton, A. and A. Tarozzi, (2000). Prices and Poverty in India, manuscript

\* Hentschel, J.; J.O. Lanjouw; P. Lanjouw; and J. Poggi. 2000. “Combining census and survey data to trace the spatial dimension of poverty: A case study of Ecuador”, *World Bank Economic Review*, 14(1):147-165.

\*Deaton, Angus and Alessandro Tarozzi. 2008. “Using census and survey data to estimate poverty and inequality for small areas”, *Review of Economics and Statistics*,

\* Duclos, J.Y.; D. Sahn and S. Younger. (2006). “Robust multidimensional poverty comparisons”, *Economic Journal*, 116(514):943-968.

\* Benjamin, D.; L. Brandt and J. Giles. (2005). “The evolution of income inequality in rural China”, *Economic Development and Cultural Change*, 53(4):769-824.

Lee, Nayoung, Geert Ridder and John Strauss. 2012. “Estimation of poverty transition matrices with noisy data”, mimeo.

Lee, Nayoung. 2010. “Measurement error and its impact on estimates of income and consumption dynamics”, USC Institute for Economic Policy Research Working Paper,

Elbers, C.; J.O. Lanjouw; P. Lanjouw (2003). “Micro-level estimation of poverty and inequality”, Econometrica, 71(1):355-364.

Duclos, J.Y.; D. Sahn and S. Younger. (2006). “Robust multidimensional spatial poverty comparisons in Ghana, Madagascar and Uganda”, *World Bank Economic Review*, 20(1):91-114.

Ravallion, M., S. Chen and P. Sangraula. (2008). Dollar a day revisited, Policy Research Working Paper 4620, World Bank.

Chen, S. and M. Ravallion (2004). How have the World’s poorest fared since the early 1980s? *World Bank Research Observer*, 19(2):141-170.

Bourguignon, F. and C. Morisson (2002). The size distribution of income among world citizens: 1820-1990, *American Economic Review*, 92(4):727-744.

Deaton, A. (1997). *The Analysis of Household Surveys*, chapter 3.3.

Deaton, A. and Dreze, J. (2002). Poverty and Inequality in India: A re-examination, *Economic and Political Weekly*, Sept 7, 2002, pp.3729-3748.

Fields, G. *Distribution and Development*, chapter 9.

Duclos, J-Y, (2002). *Poverty and Inequality*, chapters 13-14.

Baulch, B. and J. Hoddinott, (2000). Economic mobility and poverty dynamics in developing countries, *Journal of Development Studies*, 36.6:1-24.

Ravallion, M. (2003).The Debate on Globalization, Poverty and Inequality: Why Measurement Matters, manuscript.

Deaton, A. (2003). Measuring Poverty in a Growing World, BREAD Working Paper No 036.

**II. Models of the household and household production**

*A. Theory*

\* Singh, I., L. Squire and J. Strauss (eds.), (1986). *Agricultural Household Models: Extensions, Applications and Policy*, Baltimore: Johns Hopkins University Press, chapters 1,2.

\* Strauss, J., (1986). The theory and comparative statics of agricultural household models: a general approach, in I. Singh, L. Squire and J. Strauss (eds.), *Agricultural Household Models*.

\* Benjamin, D. (1992). Household composition, labor markets and labor demand: testing for separation in agricultural household models, *Econometrica*, 60:287-298.

Bardhan, P. and C. Udry (1999). *Development Microeconomics*, Oxford University Press. Chapter 2.

Becker, G. (1991). *A Treatise on the Family, Enlarged Edition*, Harvard University Press. Chapter 1.

Sen, A., (1966). Peasants and dualism with and without surplus labor, *Journal of Political Economy*, 74:425-450.

Nakajima, C., (1969). Subsistence and commercial family farms: some theoretical models of subjective equilibrium, in C. Wharton (ed.), *Subsistence Agriculture and Economic Development*, Chicago: Aldine.

Gronau, R. (1977). Leisure, home production and work: the theory of the allocation of time revisited, *Journal of Political Economy*, 85:1099-1124.

Besley, T. (1988). Rationing, income effects and supply response: a theoretical note, *Oxford Economic Papers*, 378-389.

McKay, A. and A.S. Taffesse (1995). Rationing, missing markets and the behaviour of agricultural households: A theoretical analysis, mimeo, University of Nottingham.

*B. Empirical work: Static Models- recursive and non-recursive*

\* Strauss, J. and D. Thomas, (1995). Human resources: empirical modeling of household and family decisions, in T.N. Srinivasan and J. Behrman (eds.), *Handbook of Development Economics, Volume 3A*, Amsterdam: North Holland Press, Introduction.

\* Rosenzweig, M. (1980). Neoclassical theory and the optimizing peasant: an econometric analysis, *Quarterly Journal of Economics*, 94(1):31-55.

\* Benjamin, D. (1992). Household composition, labor markets and labor demand: testing for separation in agricultural household models, *Econometrica*, 60:298-322.

\*LaFave, D. and D. Thomas. (2016). Farms, families and markets: New evidence on agricultural labor markets, *Econometrica*, 84(5):1917-1960.

\*Lambert, S. and T. Magnac (1994). Measurement of implicit prices of family labour in agriculture: An application to Cote d’Ivoire, in F. Caillavet, H. Guyomard and R. Lifran eds., *Agricultural Household Modeling and Family Economics*, Developments in Agricultural Economics 10, Amsterdam: Elsevier.

Jacoby, H. (2016). Food prices, wages and welfare in rural India, *Economic Inquiry*, 54(1):159-176.

LaFave, D., E. Peet and D. Thomas (2013). Are rural markets complete? Prices, Profits and Recursion,, mimeo, Duke University.

deJanvry, A. and E. Sadoulet (2003). Configurations and transactions: Frontiers in the modeling of rural households’ behavior, mimeo.

Lau, L., W-L. Lin and P. Yotopoulos (1978). The Linear Logarithmic Expenditure System: An Application to Consumption-Leisure Choice, *Econometrica*, 46:843-68.

Yotopoulos, P, L. Lau and W-L. Lin (1976). Microeconomic Output Supply and Factor Demand Functions in the Agriculture of the Province of Taiwan, *American Journal of Agricultural Economics*, 58:333-40.

Barnum, H. and L. Squire, (1979). A model of an agricultural household: theory and evidence, Occasional Paper No. 27, World Bank.

Strauss, J. (1984). Joint determination of food consumption and production in rural Sierra Leone: estimates of a household-firm model, *Journal of Development Economics*, 14: 77-104.

Renkow, M., D. Hallstrom and D. Karanja (2004). Rural infrastructure, transactions costs and market participation in Kenya”, *Journal of Development Economics*, 73.1: 349-367.

Roumassett, J., S. Setboonsarng, U. Wickramasinghe, J. Estudillo and R. Evenson. 1995. Specialization and Co-evolution of Agricultural Markets, Center for Institutional Reform and the Informal Sector, Working Paper No. 165, University of Maryland.

Frisvold, G. 1994. Does supervision matter? Some hypothesis tests using Indian farm level data, *Journal of Development Economics*, 43(2):217-238.

Deaton, A., (1988). Quality, quantity and spatial variation in price, *American Economic Review*, 78:418-430.

Deaton, A., (1990). Price elasticities from survey data: extensions and Indonesian results, *Journal of Econometrics*, 44:281-309.

Deaton, A., (1997). *The Analysis of Household Surveys*, 271-314.

*C. Empirical Work: Dynamic Models and Models under risk*

\* Ben-Porath, Y., (1980). The f-connection: families, friends and firms and the organization of exchange, *Population and Development Review*, 6:1-30.

\* Townsend, R., (1994). Risk and insurance in village India, *Econometrica*, 62:539-592.

\* Rosenzweig, M. (1988). Risk, implicit contracts and the family in rural areas of low income countries, *Economic Journal*, 98:1148-1170.

\* Rosenzweig, M. and O. Stark, (1989). Consumption smoothing, migration and marriage: evidence from rural India, *Journal of Political Economy*, 97:905-926.

\* Rosenzweig, M. and H. Binswanger, (1993). Wealth, weather risk and the composition and profitability of agricultural investments, *Economic Journal*, 103:56-78.

\*Mazzocco, M. and S. Saini. 2012. Testing efficient risk sharing with heterogeneous risk preferences, *American Economic Review*, 102(1):428-468.

Attanasio, O., A. Barr, J.C. Cardenas, G. Genicot and C. Meghir. (2012). Risk pooling, risk preferences and social networks, *American Economic Journal: Applied Economics*, 4(2):134-167.

Behrman, J., A. Foster and M. Rosenzweig, (1997). Dynamic Savings Decisions in Agricultural Environments With Incomplete Markets, *Journal of Business and Economic Statistics*, 15:282-92.

Ravallion, M. and S. Chaudhuri (1997). Risk and insurance in village India: Comment, *Econometrica*, 65:171-184.

Morduch, J., (2005). Consumption smoothing across space: Testing theories of risk sharing in the ICRISAT study region of south India, in S. Dercon (ed.), *Insurance Against Poverty*, Oxford: Oxford University Press.

Rosenzweig, M. and K. Wolpin, (1993). Credit market constraints, consumption smoothing and the accumulation of durable production assets in low-income countries: investment in bullocks in India, *Journal of Political Economy*, 101:223-244.

Saha, A. (1994). A Two-Season Agricultural Household Model of Output and Price Uncertainty, *Journal of Development Economics*, 45:245-69.

Fafchamps, M. and J. Pender (1997). Precautionary Saving, Credit Constraints and Irreversible Investment: Theory and Evidence from Semi-Arid India, *Journal of Business and Economic Statistics*, 15:180-94.

**III. Attrition bias in longitudinal studies**

\*Thomas, D., E. Frankenberg and J.P. Smith. 2001. Lost but not forgotten: Attrition and followup in the Indonesia Family Life Survey, *Journal of Human Resources*, 36:556-592.

\*Thomas, D., F. Witoelar, E. Frankenberg, B. Sikoki, J. Strauss, C. Sumantri, and W. Suriastini. (2012). Cutting the costs of attrition: Results from the Indonesia Family Life Survey, Journal of Development Economics, 98(1):108-123.

**IV. Labor supply and wages**

*A. Labor Supply*

\* Jacoby, H. (1993). Shadow wages and peasant family labor supply: an econometric application to the Peruvian Sierra, *Review of Economic Studies*, 60:903-921.

\* Munshi, K. 2003. Networks in the modern economy: Mexican migrants in the US labor market, *Quarterly Journal of Economics*, 118(2):549-597.

\* Field, E. 2007. Entitled to work: Urban property rights and labor supply in Peru, *Quarterly Journal of Economics*, 122(4):1561-1602

Foster, A. and M. Rosenzweig (2008). Economic development and the decline of agricultural employment, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Kajisa, K. 2007. Personal networks and nonagricultural employment: The case of a farming village in the Philippines, *Economic Development and Cultural Change*, 55(4):669-708.

Sahn, D. and H. Alderman (1988). The effects of human capital on wages and the determinants of labor supply in a developing country, *Journal of Development Economics*, 29:157-183.

Mammen, K. and C. Paxson (2000). Women’s work and economic development, *Journal of Economic Perspectives*, 14.4:141-164.

Newman, J. and P. Gertler, (1994). Family productivity, labor supply and welfare in a low income country, *Journal of Human Resources*, 29.4:989-1027.

Skoufias, E., (1992). Labor market opportunities and intrafamily time allocation in rural households in south Asia, *Journal of Development Economics*, 40:277-310.

Blau, D., (1985). The effects of economic development on life-cycle wage rates and labor supply behavior in Malaysia, *Journal of Development Economics*, 19:163-185.

*B. Returns to Education*

Background reading: Card, D. (2001). Estimating the returns to schooling: Progress on some persistent econometric problems, *Econometrica*, 69.5:1127-1160.

\* Schultz, T.P., (1988). Education investments and returns, in H. Chenery and T.N. Srinivasan (eds.), *Handbook of Development Economics, Volume 3*, Amsterdam: North Holland Press, sections 3 and 4.

\*Rosenzweig, M. (2010). Microeconomic Approaches to Development: Schooling, Learning and Growth, *Journal of Economic Perspectives*, 24(3):81-96.

\* Strauss, J. and D. Thomas, (1995). Human resources: empirical modeling of household and family decisions, Section 5.

\* Boissiere, M., J. Knight and R. Sabot, (1985). Earnings, schooling, ability and cognitive skills, *American Economic Review*, 75:1016-1030.

\* Heckman, J. and J. Hotz, (1986). An investigation of labor market earnings of Panamanian males: evaluating the sources of inequality, *Journal of Human Resources*, 21:507-542.

\*Behrman, J and B. Wolfe. (1984). The socio-economic impact of schooling in a developing country,

*Review of Economics and Statistics*, 66(2):296-303.

\* Lam, D. and R. Schoeni, (1993). Effects of family background on earnings and returns to schooling: evidence from Brazil, *Journal of Political Economy*, 101:710-740.

\* Behrman, J. and N. Birdsall, (1983). The quality of schooling: quantity alone is misleading, *American Economic Review*, 73:928-946.

\* Duflo, E. (2001). Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence From an Unusual Policy Experiment”, *American Economic Review*, 91:795-813.

\* Angrist, J. and V. Lavy. 1997. The Effect of a Change in Language of Instruction on the Returns to Schooling in Morocco, *Journal of Labor Economics*, 15:S48-76.

\* Angrist, J. (1995). The economic returns to schooling in the West Bank and Gaza Strip, *American Economic Review*, 85.5:1065-1087.

Sahn, D. and H. Alderman (1988). The effects of human capital on wages and the determinants of labor supply in a developing country, *Journal of Development Economics*, 29:157-183.

Rao, V., I. Gupta, M. Lokshin and S. Jana (2003). Sex workers and the cost of safe sex: The compensating differential for condom use among Calcutta prostitutes, 71.2:585-604.

Orazem, P. and M. Vodopivec (1995). “Winners and Losers in Transition: Returns to Education, Experience and Gender in Slovenia,” *World Bank Economic Review*, 9.2:201-230.

Smith, J., (1991). Labor markets and economic development in Malaysia, in T.P. Schultz (ed.), *Research in Population Economics*, Greenwich, CT: JAI Press.

Kochar, A. (2000). “Migration and Schooling Rates of Return,” *Journal of Development Economics*, forthcoming.

Psacharopoulos, G. and H. Patrinos (2002). Returns to Investment in Education: A Further Update, World Bank Policy Research Working Paper 2881.

Bedi, A.S. and J. Edwards. 2002. The Impact of School Quality on Earnings and Educational Returns- Evidence From a Low Income Country, *Journal of Development Economics*, 68:157-85.

Jones, P. 2001. Are Educated Workers Really More Productive?, *Journal of Development Economics*, 64:57-80.

Kim, D-I. and R. Topel (1995). Labor markets and economic growth: Lessons from Korea's industrialization, 1970-1990. in R. Freeman and L. Katz (eds.), *Differences and Changes in Wage Structures*, NBER Comparative Labor Markets Series, U. of Chicago Press.

Willis, R., (1986). Wage determinants: a survey and reinterpretation of human capital earnings functions, in O. Ashenfelter ad R. Layard (eds.), *Handbook of Labor Economics, Volume 1*, Amsterdam: North Holland Press.

*Self-employment returns*

\* Schultz, T.W. (1975). The value of the ability to deal with disequilibria, *Journal of Economic Literature*, 13:827-846.

\* Rosenzweig, M. (1995). Why are there returns to schooling?, *American Economic Review, Papers and Proceedings*, 85.2:153-158.

\* Welch, F., (1970). Education in production, *Journal of Political Economy*, 38:35-59.

\* Foster, A. and M. Rosenzweig (1996). Technical change and human capital returns and investments: Evidence from the Green Revolution, *American Economic Review*, 86.4:931-953.

\*Foster, A and M. Rosenzweig, (1995). Learning by Doing and Learning From Others: Human Capital and Technical Change in Agriculture, *Journal of Political Economy*, 103.6:1176-1209.

\*Conley, T. and C. Udry. 2010. Learning About a New Technology: Pineapples in Ghana, *American Economic Review*, 100(1):35-69.

Gurgand, M., (2003). Farmer education and the weather: Evidence from Taiwan (1976-1992), *Journal of Development Economics*, 71.1:51-70.

Giles, J. 2006. Is life more risky in the open? Household risk coping and the opening of China’s labor markets, *Journal of Development Economics*, 81(1):25-60.

Foster, A. and M. Rosenzweig. 2002. Technological Changes and the Distribution of Schooling: Evidence From the Green Revolution in India, BREAD Working Paper No. 9.

Bandiera, O. and I. Rasul. 2006. Social networks and technology adoption in northern Mozambique, *Economic Journal*, 116(October):869-902.

Munshi, K. 2004. Social learning in a heterogeneous population: Technology diffusion in the Indian Green Revolution, *Journal of Development Economics*, 73(1):185-215.

Yang, D. and M.Y. An. 2002. Human Capital, Entrepreneurship and Farm Household Earnings, *Journal of Development Economics*, 68:65-88.

Pitt, M. and G. Sumodiningrat. 1991. Risk, Schooling and the Choice of Seed Technology in Developing Countries: A Meta-Profit Approach, *International Economic Review*, 32:457-73.

Jamison, D. and L. Lau. (1982). *Farmer education and farm efficiency*, Baltimore: Johns Hopkins Press, chapters 5-8.

Vijverberg, W. (1995). Returns to Schooling in Non-farm Self-employment: An Econometric Case Study of Ghana, *World Development*, 23.7:1215-1227.

**V. Investments in education, health and fertility**

\* Schultz, T.W. (1980). The Economics of Being Poor, *Journal of Political Economy*, 88.4:639-51.

\* Strauss, J. and D. Thomas, (1995). Human Resources: empirical models of households and family decisions, sections 3.1-3.5.

\* Moffitt, R. 2005. The analysis of causal relationships in population research, *Demography*, 42(1):91-108.

*A. Fertility*

\*Lam, D. (2011). How the world survived the population bomb: Lessons from 50 years of extraordinary demographic history, *Demography*, 48(4):1231-1262.

\* Schultz, T. P., (1997). Demand for children in low income countries, in M. Rosenzweig and O. Stark (eds.), *Handbook of Population and Family Economics*, Amsterdam: North Holland Press.

\* Schultz, T.P. 2008. Population policies, fertility, women’s human capital and child quality, in T. P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

\*Rosenzweig, M. and R. Evenson, (1977). Fertility, schooling and the economic contribution of children in rural India, *Econometrica*, 45:1065-1079.

\* Rosenzweig, M. (1990). Population growth and human capital investments: theory and evidence, *Journal of Political Economy*, 98:S38-S70.

\* Lam, D., and S. Duryea, (1999). Effects of Schooling on Fertility, Labor Supply and Investments in Children, *Journal of Human Resources*, 34.1:160-92.

\* Rosenzweig, M.R. and J. Zhang, (2006). “Do Population Control Policies Induce More Human Capital Investment? Twins, Birthweight and China’s ‘One-Child’ Policy”, Economic Growth Center Working Paper 933, Yale University.

\* Rosenzweig, M. and T.P. Schultz, (1987). Fertility and investments in human capital: estimates of the consequences of imperfect fertility control, *Journal of Econometrics*, 36:163-184.

\* Rosenzweig, M. and K. Wolpin, (1988). Heterogeneity, intrafamily distribution and child health, *Journal of Human Resources*, 23.4:437-461.

\* Schultz, T. Paul and Shareen Joshi. 2013. “Family planning and women’s and children’s health: Long Term consequences of an outreach program in Matlab, Bangladesh”, *Demography*, 50(1):149-180.

\*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.

Munshi, K. and J. Myaux. (2006). “Social norms and the fertility transition”, *Journal of Development Economics*, 80(1):1-38.

Thomas, D. and J. Maluccio, (1996). Fertility, Contraceptive Choice and Public Policy in Zimbabwe, *World Bank Economic Review*, 10.1:189-222.

Schultz, T.P., (1973). Explanation of birth rate changes over time: a study of Taiwan, *Journal of Political Economy*, 31 (supplement):238-274.

Nugent, J., (1985). The old age motive for fertility, *Population and Development Review*, 11:75-97.

Montgomery, M. and J. Casterline, (1993). The diffusion of fertility control in Taiwan: evidence from pooled cross section, time series models, *Population Studies*, 47:457-479.

Foster, A. and N. Roy, (1992). The dynamics of education and fertility: evidence from a family-planning experiment, mimeo, University of Pennsylvania.

Gertler, P. and J. Molyneaux, (1994). How economic development and family planning combined to reduce Indonesian fertility, *Demography*, 31:33-64.

Browning, M., (1992). Children and household economic behavior, *Journal of Economic Literature*, 30:1434-1475.

Birdsall, N., (1988). Economic approaches to population growth, in H. Chenery and T.N. Srinivasan (eds.), *Handbook of Development Economics, Volume 1*, Amsterdam: North Holland Press.

Rosenzweig, M. and K. Wolpin. (1980). Testing the quantity-quality fertility model: the use of twins as a natural experiment, *Econometrica*, 48:227-240.

Levy, V., (1985). Cropping pattern, mechanization, child labor and fertility behavior in rural Egypt, *Economic Development and Cultural Change*, 33:777-791.

Miller, G. 2010. Contraception as development: New evidence from family planning in Columbia, *Economic Journal*, 120(545):709-736.

*Marriage Market*

Rao, V., (1993). The rising price of husbands: a hedonic analysis of dowry increases in rural India, *Journal of Political Economy*, 101:666-677.

Jacoby, H. (1995). The economics of polygyny in sub-Saharan Africa: Female productivity and the demand for wives in Cote d'Ivoire, *Journal of Political Economy*, 103.5:938-971.

Munshi, K. and N. Luke. 2006. New roles for marriage in urban Africa: Kinship networks and the labor market in Kenya, *Review of Economics and Statistics*, 88(2):264-282.

Ambrus, A., E. Field and M. Torero. 2010. Muslim family law, prenuptial agreements and the emergence of dowry in Bangladesh, *Quarterly Journal of Economics*, 125(3):1349-1397.

Jacoby, H. and G. Mansuri. 2010. *Watta Satta*: Bride exchange and women’s welfare in rural Pakistan, *American Economic Review*, 100(4):1804-1825.

Osili, U.O. and B.T. Long. 2008. Does female schooling reduce fertility: Evidence from Nigeria, *Journal of Development Economics*, 87(1):57-75.

Fafchamps, M. and A. Quisumbing. 2008. Household formation and marriage markets in rural areas, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Anderson, S. 2007. The economics of dowry and brideprice, *Journal of Economic Perspectives*, 21(4):151-174.

Foster, A. (1996). Analysis of Household Behavior When Households Choose Their Members: Marriage Market Selection and Human Capital Allocations In Rural Bangladesh, mimeo, Dept of Economics, Brown University.

Foster, A. and M. Rosenzweig (1999). “Missing Women, the marriage market and economic growth,” mimeo.

Fafchamps, M. and A. Quisumbing (2005). “Marriage, bequest and assortative matching in rural Ethiopia” *Economic Development and Cultural Change*, 53(2):347-380.

Boulier, B. and M. Rosenzweig (1984). Schooling, search, and spouse selection: Testing economic theories of marriage and household behavior, *Journal of Political Economy*, 92.4:712-732.

Montgomery, M. and D. Sulak, (1989). Female first marriage in East and Southeast Asia: a Kiefer-Neumann model, *Journal of Development Economics*, 30:225-240.

*B. Education*

\* Schultz, T.P. 1988. Educational investments and returns, in H. Chenery and TN Srinivasan (eds.), *Handbook of Development Economics, Volume 1*, sections 2 and 5.

\* Orazem, P. and E. King. 2008. Schooling in developing countries: The roles of supply, demand and government policy, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

\*Hanushek, Eric and Ludger Woessmann, The role of cognitive skills in economic development, *Journal of Economic Literature*,46(3):607-668.

\*Rosenzweig, M. 2010. Microeconomic Approaches to Development: Schooling, Learning and Growth, *Journal of Economic Perspectives*, 24(3):81-96.

\*Parish, W. and R. Willis. 1993. Daughters, education and family budgets: Taiwan experiences, *Journal of Human Resources*, 28:863-898.

\*Munshi, K. and M. Rosenzweig. 2006. Traditional institutions meet the modern world: Caste, gender and schooling choice in a globalizing economy, *American Economic Review*, 96(4):1225-1252..

\*Jensen, R. 2010. The (perceived) returns to education and the demand for schooling, *Quarterly Journal of Economics*, 125(2):515-548.

\* Edmonds, E. and N. Pavcik. 2005. The effect of trade liberalization on child labor, *Journal of International Economics*, 65:401-419.

\* Angrist, J. and V. Lavy. 1999. Using Maimonides’ Rule to Estimate the Effect of Class Size on Scholastic Achievement, *Quarterly Journal of Economics*, 114:533-75.

\* Edmonds, E. 2006. Child labor and schooling responses to anticipated income in South Africa, *Journal of Development Economics*, 81:386-414.

\* Ravallion, M. and Q. Wodon. 2000. Does Child Labour Displace Schooling? Evidence on Behavioral Responses to an Enrollment Subsidy, *Economic Journal*, 110:C158-75.

\* Schultz, T.P. 2004. School Subsidies for the Poor: Evaluating the Mexican Progresa Poverty Program, *Journal of Development Economics*, 74(1):199-250.

\*Behrman, J., P. Sengupta and P. Todd. 2005. Progressing Through Progresa: An Impact Assessment of a School Subsidy Experiment, *Economic Development and Cultural Change*, 54(1):237-275.

\*Behrman, J., S. Parker and P. Todd. 2011. Do Conditional Cash Transfers for Schooling Generate Lasting Benefits? A Five Year Followup of PROGRESA/Opportunidades, *Journal of Human Resources*, 46(1):92-122.

\*Muralidharan, K. and V. Sundaraman. 2011. Teacher performance pay: Experimental evidence from India, *Journal of Political Economy*, 119(1):39-77.

\*Bold, T., M. Kimenyi, G. Mwabu, A. Ng’ang’a and J. Sandfur. 2012. Interventions and institutions: Experimental evidence on scaling up education reforms in Kenya”, manuscript.

\* Jacoby, H. and E. Skoufias. 1997. Risk, Financial Markets and Human Capital in a Developing Country, *Review of Economic Studies*, 64:311-335.

\* Fitzsimons, E. 2007. The effects of risk on education in Indonesia, *Economic Development and Cultural Change*, 56(1):1-26.

Urquiola, Miguel and Eric Verhoogen. 2008. Class size caps, sorting and the regression discontinuity design, *American Economic Review*, forthcoming.

Duflo, E., R. Hanna and S. Ryan. 2012. “Incentives work: Getting teachers to come to school” *American Economic Review*, 102(4):1241-1278.

Glewwe, P. and H. Jacoby. (1994). Student Achievement and Schooling Choice in Low Income Countries: Evidence From Ghana, *Journal of Human Resources*, 29:843-864.

Brown, P.H., (2006). “Parental Education and Investment in Children’s Human Capital in Rural China,” *Economic Development and Cultural Change*, 54(4):759-790.

Parker, S. and P. Todd. 2017. Conditional cash transfers: The case of Progresa/Oportunidades, *Journal of Economic Literature*, 55(3):866-915.

Akresh, R., D. DeWalque and H. Kazianga. 2013. Cash transfer and child schooling: Evidence from a randomized evaluation of the role of conditionality, World Bank Policy Research Working Paper 6340.

Mani, S., J. Hoddinott and J. Strauss. Forthcoming. Long-term impacts of investments in early schooling: Empirical evidence from rural Ethiopia, *Journal of Development Economics*.

deJanvry, A., F. Finan, E. Sadoulet, and R. Vakis. (2006). Can conditional cash transfer programs serve as safety nets in keeping children at school and from working when exposed to shocks?, *Journal of Development Economics*, 79(2):349-373.

Glewwe, P., M. Kremer and S. Moulin, (2004). Retrospective versus prospective analyses of school inputs: The case of flipcharts in Kenya, *Journal of Development Economics*, 74:251-268.

Parker, S., L. Rubalcava and G. Teruel. 2008. Evaluating conditional schooling and health programs, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Todd, P. and K. Wolpin. 2006. Assessing the impact of a school subsidy program in Mexico: Using a social experiment to validate a dynamic behavioral model of child schooling and fertility, *American Economic Review*, 96(5):1384-1417.

Bobonis, Gustavo and Frederico Finan. (2009). Neighborhood peer effects in secondary enrollment decisions, *Review of Economics and Statistics*, 91(4):695-716.

Duflo, E., P. Dupas and M. Kremer. 2011. Peer effects, teacher incentives, and the impact of tracking: Evidence from a randomized evaluation in Kenya, *American Economic Review*, 101:1739-1774.

Glewwe, P and M. Kremer. 2006. Schools, teachers and educational outcomes in developing countries, in E. Hanushek and F. Welch (eds.), *Handbook of the Economics of Education, Volume 2*, Amsterdam: North Holland Press.

Edmonds, E. 2008. Child labor, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Angrist, J., E. Bettinger, E. Bloom, E. King, and M. Kremer. 2002. Vouchers for Private Schooling in Colombia: Evidence From a Randomized Natural Experiment, *American Economic Review*, 92.5, 1535-1558.

Angrist, J., E. Bettinger and M. Kremer. 2006. Long-term educational consequences of secondary school vouchers: Evidence from administrative records in Columbia, *American Economic Review*, 96:847-862.

Bettinger, E., M. Kremer and J. Saveedra. 2010. Are educational vouchers only redistributive?, *Economic Journal*, 120(546):F204-F228.

Field, E. and A. Ambrus. 2008. Early marriage, age of menarche and female schooling in Bangladesh, *Journal of Political Economy*, 116(5):881-930.

Kochar, A. 2008. Schooling, wages and profits: Negative pecuniary externalities from schooling and their consequences for schooling investment, *Journal of Development Economics*, 86(1):76-95.

Urquiola, M. and E. Veerhoogen. 2007. Class size and sorting in market equilibrium, BREAD Working Paper 155, July 2007.

King, E., P. Orazem and D. Wolgemuth. 1999. Central Mandates and Local Initiatives: The Colombia Education Voucher Program, *World Bank Economic Review*, 13:467-92.

McEwan, P. and J. Shapiro. 2008. The benefits of delayed primary school enrollment: Discontinuity estimates using exact birth dates, *Journal of Human Resources*, 43(1):1-29.

deBrauw, A. and J. Giles, (2006). “Migrant Opportunity and the Educational Attainment of Youth in Rural China,” forthcoming, Journal of Public Economics.

Li, H., J. Zhang and Y. Zhu. 2008. The quantity-quality trade-off of children in a developing country, *Demography*, 45(1):223-243.

Handa, S. and A. Peterman. 2007. Child health and school enrollment: A replication, *Journal of Human Resources*, 42(4):863-880.

Glick, P. and D. Sahn. (2006). “The demand for primary schooling in Madagascar: Price, quality and the choice between public and private providers”, *Journal of Development Economics*, 79(1): 118-145.

Akresh, R. 2004. Risk, network quality and family structure: Child fostering decisions in Burkina Faso, BREAD Working Paper No. 065.

Beegle, K., R. Dehejia and R. Gatti, 2003. Child labor, income shocks and access to credit, World Bank Policy Research Working Paper No. 3075.

Duflo, E. 2001. The Medium Run Effects of Educational Expansion: Evidence from a Large School Constgruction Program in Indonesia, mimeo, MIT, forthcoming, *Journal of Development Economics*

Lillard, L. and R. Willis. 1994. Intergenerational educational mobility: effects of family and state in Malaysia, *Journal of Human Resources*, 29.4:1126-1166.

Lam, D. (1999). Generating Extreme Inequality: Schooling, Earnings and Intergenerational Transmission of Human Capital in South Africa and Brazil, Research Report No. 99-439, Population Studies Center, University of Michigan.

Behrman, J, A. Foster, M. Rosenzweig and P. Vashishtha (1999). Women’s Schooling, Home Teaching and Economic Growth, *Journal of Political Economy*, 107.4:682-714.

Paxson, C. and N. Schady. 2002. The allocation and impact of social funds: Spending on school infrastructure in Peru, *World Bank Economic Review*, 16.2: 297-319.

Basu, K. (1998). Child Labor: Cause, Consequence and Cure With Remarks on International Labor Standards, *Journal of Economic Literature*., 37.3:1083-1119.

Lavy, V. (2002), Evaluating the effect of teachers’ group performance incentives on pupil achievement, *Journal of Political Economy*, 110.6: 1286-1317.

King, E. and B. Ozler, (1998). What’s Decentralization Got to Do With Learning? The Case of Nicaragua’s School Autonomy Reform, Paper No. 9, Working Paper Series on Impact Evaluation of Education Reforms, Development Research Group, World Bank.

Das, J., S. Dercon, J. Habyarimana and P. Krishnan. 2007. Teacher shocks and student learning: Evidence from Zambia, *Journal of Human Resources*, 42(4):820-862.

Case, A. and A. Deaton, (1999), School Inputs and Education Outcomes in South Africa, *Quarterly Journal of Economics*, 114.3:1047-84.

Jacoby, H. (1994). Borrowing Constraints and Progress Through School: Evidence from Peru, *Review of Economics and Statistics*, 76:145-58.

deTray, D., (1988). Government policy, household behavior and the distribution of schooling: a case study of Malaysia, in T.P. Schultz (ed.), *Research in Population Economics, Volume 6*, Greenwich, CT: JAI Press.

King, E. and L. Lillard, (1987). Education policy and schooling attainment in Malaysia and the Philippines, *Economics of Education Review*, 6:167-181.

Psacharopoulos, G. and M. Woodhall (1985). *Education for Development*, Oxford University Press, Chapter 3.

Glewwe, P. 2002. Schools and Skills in Developing Countries: Education Policies and Socioeconomic Outcomes, *Journal of Economic Literature*, 40: 436-82.

*C. Health*

*C.1. Introduction*

\* Strauss, J. and D. Thomas. 2008. Health over the life course. In T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

\* Deaton, A. (2003). Health, Inequality and Economic Development, *Journal of Economic Literature*, 41.1:113-158.

*C2. Returns to Investments in Health*

\* Strauss, J. and D. Thomas, (1998). Health, nutrition and economic development, *Journal of Economic Literature*, 36.2:766-817.

\*Thomas, D. 2009. Health and Socioeconomic Status: The importance of causal pathways, in World Bank, *Annual Bank Conference on Development Economics*.

\* Thomas, D. and J. Strauss, (1997). Health, wealth and wages of men and women in urban Brazil, *Journal of Econometrics*, 77.1:159-186.

\* Strauss, J., (1986). Does better nutrition raise farm productivity?, *Journal of Political Economy*, 94:297-320.

\* Pitt, M. and M. Rosenzweig, (1986). Agricultural prices, food consumption and the health and productivity of Indonesian farmers, in I. Singh, L. Squire and J. Strauss (eds.), *Agricultural Household Models: Extension, Application and Policy*, Baltimore: Johns Hopkins Press.

\* Foster, A. and M. Rosenzweig, (1994). A test for moral hazard in the labor market: effort, health and calorie consumption, *Review and Economics and Statistics*, 76.2:213-227.

\* Thomas. D. *et al.* (2011). Iron deficiency and the well-being of older adults: Early results from a randomized nutrition intervention, mimeo.

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

\* Thirumurthy, H., J.G. Zivin and M. Goldstein, (2008). The economic impact of AIDS treatment: Labor supply in Western Kenya, *Journal of Human Resources*, 43(3):511-552.

Maccini S and D. Yang. (2009), Under the weather: Health, schooling and economic consequences of early life rainfall,” *American Economic Review*, 99(3):1006-1026.

Beegle, K., J. deWeerdt and S. Dercon. 2008. Adult mortality and consumption growth in the age of HIV/AIDS, *Economic Development and Cultural Change*, 56(2):299-326.

Schultz, T.P., (1984). Studying the impact of household economic and community variables on child mortality, in L. Chen and H. Mosley (eds.), *Child Survival: Strategies for Research, Supplement to Population and Development Review*, 10:215-235.

Almond, D. (2006). Is the 1918 influenza pandemic over? Long term effects of *in utero* exposure in the post 1940 US population, *Journal of Political Economy*, 114(4):672-712.

Chapoto, A. and T. Jayne. 2008. Impact of AIDS-related mortality on farm household welfare in Zambia, *Economic Development and Cultural Change*, 56(2):327-374.

Behrman, J. and M. Rosenzweig (2004). The returns to birthweight, *Review of Economics and Statistics*, 86(2):586-601.

Maccini, S. and D. Yang. (2007). Under the weather: Health, schooling and socioeconomic consequences of early life rainfall, mimeo, University of Michigan.

Black, S., P. Devereaux and K. Salavanes (2007). From cradle to labor market?: The effect of birthweight on adult outcomes, *Quarterly Journal of Economics*, 122(1):409-439.

Schultz, T.P. (2005). Productive benefits of health: Evidence from low-income countries, in G. Lopez-Casanovas, B. Riveras and L. Currais (eds.), *Health and Economic Growth: Findings and Policy Implications*, Cambridge: MIT Press.

Gersovitz, M., (1983). Savings and Nutrition at Low Incomes, *Journal of Political Economy*, 91:844-55.

Bliss, C. and N. Stern, (1978). Productivity and Nutrition, Part 1, *Journal of Development Economics*, 5:331-62.

Deolalikar, A., (1988). Nutrition and labor productivity in agriculture: estimates for rural south India, *Review of Economics and Statistics*, 70:406:413.

Strauss, J., (1993). The impact of improved nutrition on labor productivity and human resource development, in P. Pinstrup-Andersen (ed.), *The Political Economy of Food and Nutrition Policies*, Baltimore: Johns Hopkins Press.

*C.3. Health impacts on child schooling*

\* Miguel E. and M. Kremer (2004). Worms: Identifying impacts on education and health in the presence of treatment externalities, *Econometrica*, 72.1:159-217.

\*Baird, S., J.H. Hicks, M. Kremer, E. Miguel (2016). Worms at work: Long-run Impacts of Child Health Gains”.

\* Maluccio, J., J. Hoddinott, J. Behrman, R. Martorell, A. Quisumbing, and A. Stein. (2009). The impact of improving nutrition during early childhood on education among Guatemalan adults, *Economic Journal*.

Alderman, H., J. Hoddinott and B. Kinsey. 2006. Long term consequences of early childhood malnutrition, *Oxford Economics Papers*, 58(3):450-474.

Alderman, Harold; Jere R. Behrman; Victor Lavy and Rekha Menon. 2001. “Child Health and school enrollment: A longitudinal analysis”, *Journal of Human Resources*, 31(1):185-205.

Case, A. and C. Ardington. 2006. The impact of parental death on school outcomes: Longitudinal data from South Africa, *Demography*, 43:401-420.

Evans, D. and E. Miguel, 2007. Orphans and schooling in Africa: A longitudinal analysis, *Demography*, 44(1):35-58.

Barham, T. 2012. Enhancing cognitive functioning: Medium term effects of a health and family planning program in Matlab. *American Economic Journal: Applied Economics*, 4(1):245-273.

Barham, T., K. Macours and J. Maluccio. 2013. Boys cognitive skill formation and physical growth: Long-term experimental evidence on critical ages for early childhood interventions, American Economic Review Papers and Proceedings, 103(3):467-471.

Thornton, R. 2008. The demand for and impact of learning HIV status: Evidence from a field experiment, *American Economic Review*, forthcoming.

Bobonis, G., E. Miguel and C. Puri-Sharma. 2006. Anemia and school participation, *Journal of Human Resources*, 41(4):692-721.

de Walque, D. forthcoming. Parental education and children’s schooling outcomes: Evidence from recomposed families in Rwanda, *Economic Development and Cultural Change*, forthcoming.

Glewwe, P., Jacoby, H. and E. King. 2001. Early Childhood Nutrition and Academic Achievement: A Longitudinal Analysis, *Journal of Public Economics*, 81:345-68.

Beegle, Kathleen; Joachim DeWerdt and Stefan Dercon. 2005. “Orphanhood and the long-run impact on children”, mimeo, World Bank, Washington DC.

*C4. Health input and outcome reduced forms*

\* Thomas, D., J. Strauss and M-H Henriques, (1990). Child survival, height for age and household characteristics in Brazil, *Journal of Development Economics*, 33:197-234.

\* Thomas, D. and J. Strauss. (1992). Prices, Infrastructure, Household Characteristics and Child Height, *Journal of Development Economics*, 39:301-332.

\* Thomas, D., J. Strauss and M.-H. Henriques, (1991). How does mother’s education affect child height?, *Journal of Human Resources*, 26.2: 183-211.

\*Cohen, Jessica and Pascaline Dupas. 2010. Free Distribution or Cost Sharing? Evidence from a Randomized Malaria Prevention Experiment, *Quarterly Journal of Economics*, 125(1):1-45.

\*Dupas, Pascaline. 2014. Short run subsidies and long run adoption of new health products: Evidence from a field experiment, *Econometrica*, 82(1):197-228.

\*Dupas, Pascaline and Simone Schaner. 2015. Price subsidies, diagnostic tests and targeting of malaria treatment: Evidence from a randomized control trial, *American Economic Review*, 105(2):609-645.

\*Frankenberg, Elizabeth, Thomas Gillespie, Samuel Preston, Bondan Sikoki and Duncan Thomas. 2011. Mortality, the family and the Indian Ocean tsunami, *Economic Journal*, 121:F162-F182.

\*Genoni, Maria. 2012. Health shocks and consumption smoothing: Evidence from Indonesia, *Economic Development and Cultural Change*, 60(3):475-506.

\*Arceo, E., R. Hanna and P. Oliva. (2015). Does the effect of pollution on infant mortality differ between developing and developed countries? Evidence from Mexico City, *Economic Journal*, 126(March):257-280.

Frankenberg, E. and D. Thomas. 2001. Women’s Health and Pregnancy Outcomes: Do Services Make a Difference?, *Demography*, 38:253-66.

Kremer, Michael; Jessica Leino; Edward Miguel; Alix Peterson Zwane. (2011). Spring cleaning: Rural water impacts, valuation and institutions, *Quarterly Journal of Economics*, 126:145-205.

Yamano, Takashi; Luc Christiaensen and Harold Alderman. 2005. “Child growth, shocks and food aid in rural Ethiopia”, *American Journal of Agricultural Economics*, 87(2):273-288.

deWalque, Damien. 2007. “How does the impact of an HIV/AIDS information campaign vary with educational attainment: Evidence from rural Uganda”, *Journal of Development Economics*, 84(2):686-714.

Attanasio, O., V. Oppedisano and M. Vera-Hernandez. 2015. Should cash transfers be conditional? Conditionality, preventive care and health outcomes, *American Economic Journal: Applied*, 7(2):35-52.

Duflo, E., P. Dupas, and M. Kremer. 2015. “Education, HIV and Early Fertility: Experimental Evidence from Kenya”, *American Economic Review*, 105(9):2757-2797.

Jensen, Robert, and Nolan Miller. 2008. “Giffen Behavior and Subsistence Consumption”, *American Economic Review*, 98(4):1553-1577.

Huang, W., X. Lei, G. Ridder, J. Strauss and Y. Zhao. Forthcoming. Height, Height Shrinkage, Health at Older Ages and SES: Evidence from China, *American Economic Journal: Applied*.

Stillman, S. and D. Thomas. 2008. Nutrition status during an economic crisis: Evidence from Russia, *Economic Journal*, 118:1385-1417.

Miller, Grant and Piedad Urdinola. 2010. “Cyclicality, Mortality, and the Value of Time: The Case of Coffee Price Fluctuations and Child Survival in Colombia”, *Journal of Political Economy*, 118(1):113-155.

Duflo, E. (2003). “Grandmothers and Granddaughters: The effects of old age pension on child health in South Africa,” *World Bank Economic Review*, 17.1:1-26.

Hoddinott, J. and B. Kinsey. 2001. Child growth in the time of drought, Oxford Bulletin of Economics and Statistics, 63.4:409-436.

Bozzoli C, Deaton A, Quintana-Domeque C (2007) “Child Mortality, Income and Adult Height” NBER Working Paper 12966

Deaton, A. Height, health, and development. Proceedings of the National Academy of Sciences USA (PNAS), Aug 2007; 104: 13232 - 13237.

Dercon, Stefan and Pramila Krishnan. 2000. “In sickness and health: Risk sharing with households in rural Ethiopia”, *Journal of Political Economy*, 108(4):688-727.

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

Jayne, T., J. Strauss, T. Yamano and D. Molla. 2002. Targeting of Food Aid in Rural Ethiopia: Chronic Need or Inertia?, *Journal of Development Economics*, 68:247-88.

Frankenberg, Elizabeth; Wayan Suriastini and Duncan Thomas. 2005. “Can expanding access to basic healthcare improve children’s health status? Lessons from Indonesia’s ‘midwife in the village’ program”, *Population Studies*, 59(1):5-19.

Das, Jishnu and Jeffrey Hammer. 2005a. “Money for nothing: The dire straights of medical practice in Delhi, India”, Policy Working Paper 3669, World Bank, Washington D.C.

Munshi, K. and N. Luke. 2007. Social affiliation and the demand for health services: Caste and child health in India, *Journal of Development Economics*, 83(2):256-279.

Evenson, R. ,B. Popkin and E. King-Quizon, (1980). “Nutrition, Work and Demographic Behavior in Rural Philippine Households: A Synopsis of Several Laguna Household Studies”, in H. Binswanger, R. Evenson, C. Florencio and B. White (eds.), *Rural Household Studies in Asia*, Singapore: Singapore University Press.

Case, A. (2001). Does money protect health status? Evidence from South African pensions, NBER Working Paper 8495.

Chaudhuri, A. 2008. Revisiting the impact of a reproductive health intervention on children’s height for age with evidence from rural Bangladesh, *Economic Development and Cultural Change*, 56(3):619-656.

Yamano, T. and T. Jayne (2005). “Working age mortality and primary school attendance in rural Kenya”, *Economic Development and Cultural Change*, 53(3):619-655.

Galiani, S., P. Gertler and E. Schargrodsky, (2005). Water for Life: The impact of privatization of water services on child mortality in Argentina, *Journal of Political Economy*, 113(1):83-120.

Gertler, P., M. Shah, and S. Bertozzi (2005). Risky business: The market for unprotected sex”, *Journal of Political Economy*, 113(3):518-550.

Foster, A. (1995). Rice Prices, Credit Markets and Child Growth in Rural Bangladesh, *Economic Journal*, 105:551-70.

Strauss, J. and D. Thomas, (1995). Human Resources: empirical models of households and family decisions, section 2.1.

Bouis, H. and L. Haddad, (1992). Are estimates of the calorie-income elasticities too high? a recalibration of the plausible range, *Journal of Development Economics*, 39:333-364.

Bertrand, M., S. Mullainathan, D. Miller. 2003. “Public policy and extended families: Evidence from pensions in South Africa”, *World Bank Economic Review*, 17.1:27-50.

Edmonds, E., K. Mammen and D. Miller. 2001. Household Composition Responses to Large Pension Receipts in South Africa, mimeo, Dartmouth College.

Pitt, M. (1997). Estimating the Determinants of Child Health When Fertility and Mortality are Selective, *Journal of Human Resources*, 32.1:129-58.

Preston, S., (1980). Causes and consequences of mortality decline in LDCs during the Twentieth Century, in R. Easterlin (eds.), *Population and Economic Change in Developing Countries*, University of Chicago Press.

Behrman, J. and A. Deolalikar, (1988). Health and nutrition, in H. Chenery and TN Srinivasan (eds.), *Handbook of Development Economics, Volume 1*.

Rosenzweig, M. and T.P. Schultz, (1982). Child mortality and fertility in Colombia: individual and community effects, *Health Policy and Education*, 2:305-348.

Wolfe, B. and J. Behrman, (1987). Women's schooling and child health, *Journal of Health Economics*, 6:239-254.

Guilkey et al., (1989). Prenatal care and pregnancy outcome in Cebu, Philippines, *Journal of Development Economics*, 30:241-272.

Steckel, R., (1995). Stature and the standard of living, *Journal of Economic Literature*, 33.4:1903-1942.

Fogel, R., (1986). Physical growth as a measure of the economic well-being of populations: the eighteenth and nineteenth centuries, in F. Falkner and J. Tanner (eds.), *Human Growth: A Comprehensive Treatise, Volume 3*, New York: Plenum Press.

Pitt, M., (1983). Food Preferences and Nutrition in Rural Bangladesh, *Review of Economics and Statistics*, 65:105-14.

Strauss, J. (1984). Joint Determination of Food Consumption and Production in Rural Sierra Leone: Estimates of a Household-Firm Model, *Journal of Development Economics*, 14:77-103.

Behrman, J. and A. Deolalikar, (1987). Will developing country nutrition improve with income?, *Journal of Political Economy*, 95:108-138.

Strauss, J. and D. Thomas, (1990). The shape of the calorie-expenditure curve, Economic Growth Center Discussion Paper No. 595, Yale University.

Subramanian, S. and A. Deaton (1996). The demand for food and calories, *Journal of Political Economy*, 104.1:133-162.

Strauss, J., P. Gertler, O. Rahman and K. Fox, (1993). Gender and life cycle differentials in the patterns and determinants of adult health, *Journal of Human Resources*, 28:791-837.

Ravallion, M. (1987). *Markets and Famines*, Oxford University Press, chapters 1 and 2.

Razzaque, A. *et al.*, (1990). Sustained Effects of the 1974-75 Famine on Infant and Child Mortality in a Rural Area of Bangladesh, *Population Studies*, 44:145-54.

Jensen, R. 2000. Agricultural Volatility and Investments in Children, *American Economic Review Papers and Proceedings*, 90:399-404.

Jensen, R. Job Security, Stress and Health: Evidence From the Russian Privatization Experience, mimeo, Kennedy School of Government, Harvard University.

Jensen, R. and K. Richter. Social Security, Income Volatility and Health: Evidence From the Russian Pension Crisis, mimeo, Kennedy School of Government, Harvard University.

Preston, S. and M. Haines. (1991). *Fatal Years: Child Mortality in Late Nineteenth Century America*, Princeton University Press.

*D. Pricing policies and public investment*

Gertler, P., L. Locay and W. Sanderson, (1987). Are user fees regressive? the welfare implications of health care financing proposals in Peru, *Journal of Econometrics*, 36 (supplement):67-88.

Dow, William. (1999). Flexible discrete choice demand models consistent with utility maximization: An application to health care demand, *American Journal of Agricultural Economics*, 81:680-685.

Urquiola, Miguel. 2006. Identifying class size effects in developing countries: Evidence from rural Bolivia, *Review of Economics and Statistics*, 88(1):171-177.

Frankenberg, E., D. McKee and D. Thomas. 2005. Health consequences of forest fires in Indonesia, *Demography*, 42(1):109-130.

Hamoudi, A. and D. Thomas (2005). Pension income and the well-being of children and grandchildren: New evidence from South Africa, mimeo.

Alderman, H., P. Orazem and E. Paterno. 2001. School quality, school cost and the public/private school choices of low income households in Pakistan, *Journal of Human Resources*, 36.2:304-326.

Rosenzweig, M. and K. Wolpin, (1982). Government interventions, and household behavior in a developing country: anticipating the unanticipated consequences of social programs, *Journal of Development Economics*, 10:209-225.

Thomas, D., V. Lavy and J. Strauss, (1996). Public policy and anthropometric outcomes in the Cote d'Ivoire, *Journal of Public Economics*, 61.2:155-192.

Leonard, K.L. (2003). African traditional healers and outcome-contingent contracts in health care, *Journal of Development Economics*, 71.1:1-22.

Hammer, J. (1997). Prices and Protocols in Public Health Care, *World Bank Economic Review*, 11.3:409-32.

Alderman, H., J. Behrman, S. Khan, D. Ross and R. Sabot (1995). Public schooling expenditures in rural Pakistan: Efficiently targeting girls and a lagging region, in D. van de Walle and K. Nead (eds.), *Public Spending and the Poor: Theory and Evidence*, Johns Hopkins Press.

Lavy, V. (1996). School Supply Constraints and Children’s Educational Outcomes in Rural Ghana, *Journal of Development Economics*, 51:291-314.

Tansel, A. (1997). Schooling Attainment, Parental Education and Gender in Cote d’Ivoire and Ghana, *Economic Development and Cultural Change*, 45:825-856.

Duraisamy, P. and R. Malathy. (1991). Impact of Public Programs on Fertility and Gender Specific Investment in Human Capital in Rural Indian Households, in T.P. Schultz (ed.), *Research in Population Economics, Volume 7*, JAI Press.

Thomas, D. and J. Strauss, (1992). Prices, infrastructure, household characteristics and child height, *Journal of Development Economics*, 39:310-332.

Mroz, T., K. Bollen, I. Speizer and D. Mancini, 1999. Quality, Accessibility, and Contraceptive Use in Tanzania, *Demography*, 36.1:23-40.

Gertler, P. and J. van der Gaag, (1990). *The willingness to pay for medical care: evidence from two developing countries*, Baltimore: Johns Hopkins Press.

Leonard, K. (2003). African Traditional Healers and Outcome-Contingent Contracts in Health Care, *Journal of Development Economics*, forthcoming.

Edmonds, E. (2002). Government Initiated Community Resource Management and Local Resource Extraction From Nepal’s Forests, *Journal of Development Economics*, 68:89-116.

Foster, A., M. Rosenzweig and J. Behrman. 1999. Population, Income and Forest Growth: Management of Village Common Land in India, mimeo, Brown University.

*E. Endogenous program placement and selective migration*

\* Pitt, M., M. Rosenzweig and D. Gibbons, (1993). The determinants and consequences of the placement of government programs in Indonesia, *World Bank Economic Review*, 7:319-348.

\* Pitt, M. and S. Khandker (1998).The Impact of Group-Based Credit Programs on Poor Households in Bangladesh: Does the Gender of Participants Matter?, *Journal of Political Economy,* 106.5:958-96.

Ravallion, M. and J. Jalan. 2003. Estimating the Benefit Incidence of an Anti-poverty Program By Propensity-Score Matching, *Journal of Economic and Business Statistics*, 21.1:19-30.

Ravallion, M. and Chen, S. (2005). “Hidden Impact? Household Saving in Response to a Poor-Area Development Project,” Journal of Public Economics, 89.12:2183-2204.

Besley, T. and R. Burgess. 2004. Can labor regulation hinder economic performance? Evidence from India, *Quarterly Journal of Economics*, 119(1):91-134.

Besley, T. and A. Case (2000). Unnatural experiments? Estimating the incidence of endogenous policies, *Economic Journal*, 110.467: F672-F694.

Newman, J., M. Pradhan, L. Rawlings, G. Ridder, R. Coa, and J.L. Evia. 2002. An impact evaluation of education, health, and water supply investments by the Bolivian Social Investment Fund, *World Bank Economic Review*, 16.2: 241-274.

Diaz, J.D. and S. Handa, (2006). “An Assessment of Propensity Score Matching as a Nonexperimental Impact Estimator”, Journal of Human Resources, 41.2:319-345.

Thomas, D., E. Frankenberg and J.P. Smith, (2001), Lost but not Forgotten: Attrition in the Indonesian Family Life Survey, *Journal of Human Resources*, 36:556-92.

Rosenzweig, M. and K. Wolpin, (1986). Evaluating the effects of optimally distributed public programs, *American Economic Review*, 76:470-482.

Rosenzweig, M., H. Binswanger and S. Khandker (1993). How infrastructure and financial institutions affect agricultural output and investment in India, *Journal of Development Economics*, 41.2:337-366.

Pitt, M., S. Khandker, S-M. McKernan and M. Abdul Latif, (1999). Credit Programs for the Poor and Reproductive Behavior in Low Income Countries: Are the Reported Causal Relationships the Result of Heterogeneity Bias? *Demography*, 36.1:1-21.

McKernan, S-M. 2002. The Impact of Microcredit Programs on Self-Employment Profits: Do Noncredit Program Aspects Matter?, *Review of Economics and Statistics*, 84:93-115.

Pitt. M., S. Khandker, O. Chowdury and D. Millimet. 2001. Credit Programs for the Poor and the Health Status of Children in Bangladesh, mimeo, Brown University, forthcoming, *International Economic Review*.

Jacoby, H. 2000. Access to Markets and the Benefits of Rural Roads, *Economic Journal*, 110:713-37.

Rosenzweig, M. and K. Wolpin, (1988). Migration selectivity and the effects of public programs, *Journal of Public Economics*, 37:265-289.

Ravallion, M. 2001. The Mystery of the Vanishing Benefits: An Introduction to Impact Evaluation, *World Bank Economic Review*, 15:115-40.

Frankenberg, E., D. Thomas and K. Beegle. (1999). The Real Costs of Indonesia’s Economic Crisis: Preliminary Findings from the Indonesia Family Life Surveys, mimeo, RAND, Santa Monica, CA.

Foster, A. and M. Rosenzweig. 2001. Democratization, Decentralization and the Distribution of Local Public Goods in a Poor Rural Economy, PIER Working Paper No.01-56, University of Pennsylvania.

Foster, A. and M. Rosenzweig, (2002). Democratization, decentralization and the distribution of local public goods in a rural economy, BREAD Working Paper No. 10.

Galasso, E. and M. Ravallion. 2000. Distributional Outcomes of a Decentralized Welfare Program, Policy Research Working Paper 2316, World Bank.

*Experiments*

Banerjee, A., E. Duflo, R. Glennerster and C. Kinnan (2009). The miracle of microfinance? Evidence from a randomized evaluation, mimeo, MIT.

Olken, B. 2007. Monitoring corruption: Evidence from a field experiment in Indonesia, *Journal of Political Economy*, 115(2):200-249.

Newman, J., L. Rawlings and P. Gertler, (1994). Using Randomized Control Designs in Evaluating Social Sector Programs in Developing Countries, *World Bank Research Observer*, 9.2:181-202.

Pradhan, M., L. Rawlings, and G. Ridder, (1998). The Bolivian Social Investment Fund: An Analysis of Baseline Data for Impact Evaluation, *World Bank Economic Review*, 12.3:457-82.

**VI. Human Capital Production Functions**

Strauss, J. and D. Thomas, (1993). Human capital: empirical modeling of household and family decisions, Section 4.

Wolpin, K, (1997). Determinants and consequences of the mortality and health of infants and children, in M. Rosenzweig and O. Stark (eds.), *Handbook of Population and Family Economics, Volume 1A*, Amsterdam: North Holland Press.

Todd, P. and K. Wolpin, (2003). On the specification and estimation of the production function for cognitive achievement, *Economic Journal*, 113.485:F3-F33.

Cebu Study Team, (1992). A child health production estimated from longitudinal data, *Journal of Development Economics*, 38:323-351.

Rosenzweig, M. and T.P. Schultz (1989). Schooling, information and nonmarket productivity: Contraceptive use and its effectiveness, *International Economic Review*, 30.2:457-477.

Lee, L.F., M. Rosenzweig and M. Pitt (1997). The effects of improved nutrition, sanitation and water quality on child health in high mortality populations, *Journal of Econometrics*, 77.1:209-236.

Rosenzweig, M. and K. Wolpin (1988). Heterogeneity, intrafamily distribution and child health, *Journal of Human Resources*, 23.4:437-461.

Harbison, R. and E. Hanushek, (1992). *Educational performance of the poor: lessons from rural northeast Brazil*, Oxford: Oxford University Press, chapters 4 and 5.

Glewwe, P. and H. Jacoby, (1994). Student achievement and schooling choice in low-income countries: evidence from Ghana, *Journal of Human Resources*, 29.3:843-864.

Barrera, A., (1990). The interactive effects of mother's schooling and unsupplemented breastfeeding on child health, *Journal of Development Economics*, 34:81-98.

**VII. Extensions: links among and between household and family members**

Cox, D. and M. Fafchamps. 2008. Extended family and kinship networks: Economic insights and evolutionary directions, in T.P. Schultz and J. Strauss (eds.), *Handbook of Development Economics, Volume 4*, Amsterdam: North Holland Press.

Strauss, J. and D. Thomas, (1993). Human capital: empirical models of household and family decisions, Section 7.

Strauss, J. , G. Mwabu and K. Beegle. (2000). Intrahousehold allocations: A review of theories and empirical evidence, *Journal of African Economies*, 9:83-143.

Dasgupta, P., (1993). *An Inquiry into Well-Being and Destitution*, Oxford University Press, Chapter 11, 305-336.

Behrman, J., (1992). Intrahousehold distribution and the family, to appear in M. Rosenzweig and O. Stark (eds.), *Handbook of Population and Family Economics*, Amsterdam: North Holland Press.

*A. Gender differences in human capital investments and outcomes*

\* Rosenzweig, M. and T.P. Schultz, (1982). Market opportunities, genetic endowments and intrafamily resource distribution, *American Economic Review*, 74:215-235.

\* Pitt. M., (1997). Specification and estimation of the demand for goods within the household, in L. Haddad, J. Hoddinott and H. Alderman (eds.), *Intrahousehold Resource Allocation in Developing Countries: Models, Methods, and Policy*, Johns Hopkins Press.

\* Pitt, M., M. Rosenzweig and Md. N. Hassan, (1990). Productivity, health and inequality in the intrahousehold distribution of food in low income countries, *American Economic Review*, 80:1139-1156.

\*Pitt, M.M., M.R. Rosenzweig and Md.N. Hassan, (2012). “Human capital investment and the gender division of labor in a brawn-based economy”, *American Economic Review*, 102(7):3531-3560.

Rosenzweig M. and J. Zhang, (2013). Economic growth, comparative advantage and gender differences in schooling outcomes: Evidence from the birthweight differences of Chinese twins, *Journal of Development Economics*, 104:245-260.

Li, H., M. Rosenzweig and J. Zhang. (2010). Altruism, Favoritism, and Guilt in the Allocation of Family Resources: Sophie’s Choice in Mao’s Mass Send-Down Movement, *Journal of Political Economy*, 118(1):1-38.

Quisumbing, A., (1994). Intergenerational transfers in Philippine rice villages: gender differences in traditional inheritance customs, *Journal of Development Economics*, 43:167-196.

Jayachandran, S. and I. Kuziemko. (2011). Why do Mother’s Breastfeed Girls Less Than Boys? Evidence and Implications for Child Health in India, *Quarterly Journal of Economics*, forthcoming.

Pitt, M.M., M.R. Rosenzweig, and Md.N. Hassan, (2005). “Sharing the Burden of Disease: Gender, the Household Division of Labor and the Health Effects of Indoor Air Pollution,” BREAD Working Paper No. 093.

Rose, E. (1999). Consumption Smoothing and Excess Female Mortality in Rural India, *Review of Economics and Statistics*, 81.1:41-9.

Oster, Emily, (2005). Hepatitus B and the Case of the Missing Women, *Journal of Political Economy*, 113(6):1163-1216.

Das Gupta, M. (2008). Can biological factors like hepatitus B explain the bulk of the gender imbalance in China: A review of the evidence, *World Bank Research Observer*, 23(2):201-217.

Hamoudi, A. (2008). Exploring the causal machinery behind sex ratios at birth: Does Hepatitus B play a role?, mimeo, UCLA.

Foster, A. and M. Rosenzweig, (1999). Missing Women, the Marriage Market and Economic Growth, mimeo, Dept of Economics, Brown University.

Behrman, J., (1988). Intrahousehold allocation of nutrients in rural India: are boys favored? do parents exhibit inequality aversion?, *Oxford Economic Papers*, 40:32-54.

Deaton, A., (1997). *The Analysis of Household Surveys*, 210-222.

Browning, M. and R. Subramanian (1995). Gender bias in India: Parental preferences, differential returns or marriage costs, McMaster University, mimeo.

Deolalikar, A. and E. Rose (1998). Gender and Savings in Rural India, *Journal of Population Economics*, 11.4:453-70.

Rose, E. 2000. Gender Bias, Credit Constraints and Time Allocation in Rural India, *Economic Journal*, 110:738-58.

Kochar, A. (1999). Evaluating Familial Support for the Elderly: The Intrahousehold Allocation of Medical Expenditures in Rural Pakistan, *Economic Development and Cultural Change*, 47.3:621-56.

Schultz, T.P., (1993). Investments in the schooling and health of women and men, *Journal of Human Resources*, 28:694-734.

Chen, L., E. Huq and S. D'Souza, (1981). Sex bias in the family allocation of food and health care in rural Bangladesh, *Population and Development Review*, 7:55-70.

Behrman, J. (1992). Intrahousehold allocation of nutrients and gender effects: a survey of structural and reduced form estimates, in S.R. Osmani (ed.), *Nutrition and Poverty*, Oxford: Clarendon Press.

Rosenzweig, M. and K. Wolpin, (1988). Heterogeneity, intrafamily distribution and child health, *Journal of Human Resources*, 23:437-461.

Pitt, M. and M. Rosenzweig, (1990). Estimating the intrahousehold incidence of illness: child health and gender inequality in the allocation of time, *International Economic Review*, 31:969-989.

Hill, M.A. and E. King, (1993). Women's education in developing countries: an overview, in M.A. Hill and E. King (eds.), *Women's Education in Developing Countries*, Johns Hopkins Press.

vonBraun, J. and P. Webb, (1989). The impact of new crop technology on the agricultural division of labor in a west African setting, *Economic Development and Cultural Change*, 37:513-534.

Deaton, A., (1990). Looking for boy-girl discrimination in household expenditure data, *World Bank Economic Review*, 3:1-16.

*B. Transfers between parents and children*

Jensen, R. (2003). Do private transfers ‘displace’ the benefits of public transfers? Evidence from South Africa, *Journal of Public Economics*, 88:89-112.

Foster, A. and M. Rosenzweig. 2001. Imperfect Commitment, Altruism and the Family: Evidence from Transfer Behavior in Low Income Rural Areas, *Review of Economics and Statistics*, 83:389-407.

Case, A. and A. Deaton, (1998). Large Cash Transfers to the Elderly in South Africa, *Economic Journal*, 108:1330-1361.

Cox, D. and E. Jimenez, (1992). Social security and private transfers in developing countries: the case of Peru, *World Bank Economic Review*, 6:155-169.

Kochar, A., (2000). Parental Benefits from Intergenerational Co-residence: Empirical Evidence from Rural Pakistan, *Journal of Political Economy*, 108.6:1184-1209.

Lillard, L. and R. Willis (1997). Motives for intergenerational transfers: Evidence from Malaysia, *Demography*, 34.1:115-134.

Lucas, R.E.B. and O. Stark, (1985). Motivations to remit: evidence from Botswana, *Journal of Political Economy*, 93:901-918.

*C. Collective models of the household*

*1. Theory*

\*Bourguignon, F., M. Browning and P-A Chiappori. (2009). Efficient intra-household allocations and distribution factors: Implications and identification, *Review of Economic Studies*, 76:503-528.

\*Chiappori, P-A and M. Mazzocco, 2017. Static and intertemporal household decisions, *Journal of Economic Literature*, 55(3):985-1045.

\*Lundberg, S. and R. Pollak, (1993). Separate Spheres Bargaining and the labor market, *Journal of Political Economy*, 101:988-1010.

Browning, M. P-A Chiappori and V. Lechene. 2010. Distributional effects in household models: Separate spheres and income pooling, *Economic Journal*, 120(545):786-799.

Chiappori, P-A. (1997). “Collective” Models of Household Behavior: The Sharing Rule Approach, in L. Haddad, J. Hoddinott and H. Alderman (eds.), *Intrahousehold Resource Allocation in Developing Countries* , Johns Hopkins Press.

Deaton, A., (1994). *The Analysis of Household Surveys*, 203-209.

Chiappori, P-A., (1992). Collective labor supply and welfare, *Journal of Political Economy*, 100:437-467.

Browning, M., F. Bourguignon, P-A Chiappori and V. Lechene, (1994). Incomes and outcomes: a structural model of intra-household allocation, *Journal of Political Economy*, 102.6:1067-1096.

Mazzocco, M. 2007. Household intertemporal behavior: A collective characterization and a test of commitment, *Review of Economic Studies*, 74(3):857-895.

Cherchye, Laurens, Bram de Rock and Frederic Vermeulen. 2009. “Opening the black box of intrahousehold decision making: Theory and nonparametric empirical tests of general collective consumption models”, *Journal of Political Economy*, 117(6):1074-1104.

Chiappori, P-A (1997). Introducing household production in collective models of labor supply, *Journal of Political Economy*, 105.1:191-209.

Browning, M. and P-A Chiaporri, (1998). Efficient Intra-Household Allocations: A General Characterization and Empirical Tests, *Econometrica*, 66.6:1241-78.

Bourguignon, F., M. Browning, P-A Chiappori and V. Lechene, (1993). Intrahousehold allocation of consumption: some evidence on French data, *Annales d'Economie et de Statistiques*, 137-56.

Apps, P. and R. Rees (1997). Collective labor supply and household production, *Journal of Political Economy*, 178-190.

McElroy, M., (1990). The empirical content of Nash-bargained household behavior, *Journal of Human Resources*, 25:559-583.

McElroy, M. and M-J Horney, (1981). Nash-bargained household decisions: toward a generalization of the theory of demand, *International Economic Review*, 22:333-347.

Chiappori, P-A., (1988). Nash-bargained household decisions: a comment, *International Economic Review*, 29:791-796.

*2. Evidence*

\* Thomas, D., (1990). Intra-household resource allocation: an inferential approach, *Journal of Human Resources*, 25:635-664.

\* Thomas, D., (1994). Like father like son; like mother like daughter: parental education and child height, *Journal of Human Resources*, 29.4:950-988.

\* Bobonis, Gustavo (2009). Is the allocation of resources within the household efficient? New evidence from a randomized experiment, *Journal of Political Economy*, 117(3):453-503.

\* Udry, C., (1996). Gender, agricultural production and the theory of the household, *Journal of Political Economy*, 104.5:1010-1046.

\* Goldstein, M. and C. Udry. (2009). The profits of power: Land rights and agricultural investment in Ghana, *Journal of Political Economy*, 116(6):981-1022.

Rangel, M. (2006). Alimony rights and intra-household allocation of resources: Evidence from Brazil, *Economic Journal*, 116(July):627-658.

Ashraf, N., E. Field and J. Lee. (2014). Household bargaining, and excess fertility: An experimental study in Zambia, *American Economic Review*, 104(7):2210-2237.

Angelucci, M., G. DeGiorgi, M, Rangel and I. Rasul. (2010). Family networks and school enrollment: Evidence from a randomized social experiment. *Journal of Public Economics*, 94:197-221.

La Fave, D. and D. Thomas (2017). Extended families and child well-being, Journal of Development Economics, 126:52-65.

Attanasio, O. and V. Lechene. (2014). Efficient responses to targeted cash transfers, *Journal of Political Economy*, 122(1):178-222.

Bloch F. and V. Rao, (2002). Terror as a bargaining instrument: A case study of dowry violence in rural India, *American Economic Review*, 92.4:1029-1043.

Udry, C. and E. Duflo (2004). “Intrahousehold Resource Allocation in Cote d’Ivoire: Social Norms, Separate Accounts and Consumption Choices”, mimeo, Department of Economics, Yale University.

Foster, A. and M. Rosenzweig. 2001. Imperfect commitment, altruism and the family: Evidence from transfer behavior in low-income rural areas, *Review of Economics and Statistics*, 83.3:389-407.

Foster, A. and M. Rosenzweig. 2000. Household Division, Risk and Rural Economic Growth, PIER Working Paper No. 01-49, University of Pennsylvania, forthcoming, *Review of Economic Studies*.

Udry, C. and M. Goldstein, 2002. Gender, land rights and Agriculture in Ghana, mimeo, Yale University.

Udry, C. and E. Duflo, 2003. Intrahousehold resource allocation in Cote d’Ivoire: Social norms, separate accounts and consumption choices, BREAD Working Paper No. 16.

Rasul, I. 2008. Household bargaining over fertility: Theory and evidence from Malaysia, *Journal of Development Economics*, 86(2):215-241.

Lundberg, S., Pollak, R. and T. Wales, (1997). Do Husbands and Wives Pool Their Resources?, *Journal of Human Resources*, 32.3:463-80.

Schultz, T. Paul, (1990). Testing the neoclassical model of family labor supply and fertility, *Journal of Human Resources*, 25:599-634.

Jones, C., (1983). The mobilization of women's labor for cash crop production: a game theoretic approach, *American Journal of Agricultural Economics*, 65:1049-1054.

Jones, C., (1986). Intrahousehold bargaining in response to the introduction of new crops: a case study from north Cameroon, in J. Moock (ed.), *Understanding Africa's Rural Households*, Westview Press.

Frankenberg. E. and D. Thomas, (1998). Measuring Power, mimeo, RAND.

Thomas, D. and C.-L. Chen (1994). Income shares and shares of income: Empirical tests of models of household resource allocation, RAND Labor and Population Working Paper No. 94-8.

Thomas, D. R. Schoeni and J. Strauss (1996). Parental investments in schooling: The roles of gender and resources in urban Brazil, RAND Labor and Population Working Paper No. 96-02.

Khemani, S. (1997). Inter-generational Transfers and Intra-Household Bargaining, mimeo, Dept of Economics, MIT.