Econ 350, 2014 Plan

This draft, 11/27/13

- 1. Inequality and Social Mobility—Dimensions
 - (a) Some Facts
 - (b) Importance of Prices, Endowments, Shocks
 - (c) Relative Importance of Skills
 - (d) Transfers and Taxes
 - (e) Importance of Family and Policy on Endowments
 - (f) Philosophical [Typist: D-what?]
- 2. + 3. Effects of Education—Start with Card
 - (a) Causal Inference + IV
 - (b) Structural Models
 - (c) Evidence
 - (d) Role of Capabilities (A broader notion of skill)
- 4. Role of Shocks and Uncertainty—How Much Variability External? (How to model uncertainty)
- 5. Dynamics of Skill Formation
 - (a) B.P. + Technology / Adult
 - (b) Creating Initial Conditions
- 6. Factor Models and Models of Family Influence
- 7. Genes vs. Environments
- 8. Health
 - (a) Lifecycle Origins and Determinants
- 9. Social Mobility—Factors and Models
- 10. Summary

<u>Syllabus /</u> Reading List

<u>Data</u>

Problem Sets

Supplemental Reading List

Technical Syllabus University of Chicago

Announcements

Economics 350, Winter 2013 Life Cycle Dynamics and Inequality http://jenni.uchicago.edu/econ350/

Instructor: James J. Heckman

Lecture times: Tuesday and Thursday, 1:30pm - 3:00pm

Lecture classroom: Rosenwald 329

Teaching Assistants:

- Sara Moreira (spmoreira@uchicago.edu)
- Stefano Mosso (smosso@uchicago.edu)
- Cullen Roberts (cullen.a.roberts@gmail.com)

TA sessions:

- Monday, 4pm 7pm, Rosenwald 301
- Thursday, 4:30pm 7:30pm, Rosenwald 432

(Occasionally, the instructor will use a TA session to supplement or make up a class)

If you experience problems with this website, please contact Jennifer Pachon.

Course Overview

This class is organized around the study of lifecycle inequality. This is a vast topic, and one can only consider certain aspects of it. There will be five sub-topics. Economic and statistical frameworks will be used to organize and interpret the evidence and to evaluate alternative policy proposals. The first topic sets the stage for the topics that follow.

The five topics are:

- I. Inequality: Basic Facts, Frameworks, and Open Questions
- II. Consumption, Wealth and Earnings Dynamics
- III. Acquisition and Pricing of Skills
 - 1. Education: Determinants, Returns, Dynamics and Option Value
 - 2. Sorting of Workers and Pricing of Skills
 - a. Efficiency Unit Models

- b. Roy Model and Models of Comparative Advantage
- c. Hedonic Models and Sorting
- d. Preferences and Traits
- 3. Models of Post-School Investment and Wage Growth
- 4. Uncertainty, Learning, and Wage Growth
- IV. Labor Supply and Labor Demand
 - 1. Labor Supply
 - 2. Labor Demand
- V. Role of Family: Intergenerational Mobility, Skill formation, and Health
 - 1. Intra-Household Allocations and Inequality (Lecturer: Alessandra Voena)
 - 2. Family Influence: Genes, Environments, and Intergenerational Transmission Mechanisms
 - 3. The Technology of Skill Formation
 - 4. Inequality in Health

For some sections, there are videos from the 2012 Summer School on Socioeconomic Inequality that provide useful introductions and summaries of main themes.

Requirements and grading: This class is an advanced seminar on some open questions in the economics of inequality. The goal is to approach, and hopefully advance, the frontiers of knowledge. Active student participation is essential. Student reports and classroom participation supplementing the lectures is requested, starting after the first few weeks of class. The quality of this class depends of the level of engagement of its students. Students should pick one of the major themes and prepare reports on one of the topics within the five broad themes, in consultation with the instructor and the TAs. Students should challenge everything, and successful challenges will be highly rewarded. Problem sets will allow the students to anticipate the material discussed in the course and synthesize it.

Results from a take-home final **or** oral exam will constitute **50%** of the grade. Grades on the problem sets constitute 25% of the final grade. Reports, and active classroom and after-class participation can produce bonus points up to 25% of the grade (this has admittedly subjective elements, but I will ask TAs to help monitor it). In addition, bonuses will be given to students who actively participate in the weekly supplemental methodological sessions, and who make original points in class.

Supplementary Lectures: Class meets twice a week. There will be some exceptions if a make-up class is required. There are review sessions on Monday and Thursday. Supplementary lectures will be held in these sessions to provide students with tools needed to do frontier research in this area. They will focus on aspects of the economic and econometric theory, computation, and empirical research not developed in detail in class. These sessions will be conducted by the instructor, the TAs, and post-doctoral fellows.

There will be supplementary and voluntary lectures on econometric estimation and computational methods organized by Philipp Eisenhauer (eisenhauer@policy-lab.org). For his reading list, please

click <u>here</u>. Students will be taught modern computational techniques to make the theory empirically operational. This is sometimes called "structural econometrics," and is an essential set of tools for students seeking to do creative empirical work guided by theory. The focus is on estimation and model formulation.

There is a core reading list, posted at: http://jenni.uchicago.edu/econ350/index.htm. It offers a guide to the literature. The course will follow handouts designated in advance before each lecture. A supplementary reading list (http://jenni.uchicago.edu/econ350/supplement/index.htm) is available to help students who wish to investigate topics at greater depth than can be covered in class. A technical reading list providing background on the tools needed to do frontier research is provided at http://jenni.uchicago.edu/econ350/technical/index.htm.

Lecture notes will be posted as available. Please check this website in advance of each lecture.

Some background lectures on inequality from the 2012 Summer School on Socioeconomic Inequality can be found here: http://sssi.uchicago.edu/page/summer-school-socioeconomic-inequality-schedule

Core Syllabus and Lecture Notes

NOTE: Please note that the lecture notes posted here are for your convenience. Professor Heckman may edit them significantly up until the day when he uses them in class, so please keep this in mind if you intend to print them out.

I. Inequality: Basic Facts, Frameworks, and Open Questions

- A. Frameworks and Open Questions
 - Lecture Video: Heckman, James J. (2012). "Inequality: An Overview, Part 1," and
 "Inequality: An Overview, Part 2." Presented at the Summer School on Socioeconomic Inequality 2012, Chicago, IL. July 9, 2012.
 - Handout: Heckman, James J. (2013). "Some Open Questions in the Study of Inequality."
 - Handout: Heckman, James J. (2013). "Basic Life Cycle Model Used and Extended <u>Throughout the Course</u>."
 - Foster, James and Sen, Amartya. (1997). "On Economic Inequality After a Quarter
 Century," in On Economic Inequality, Oxford, UK: Oxford University Press. pp. 195-219.
 - Handout for Foster and Sen (1997).
- B. General Facts
 - Handout: Heckman, James J. (2013). "Some Facts and Open Issues in the Study of Inequality."
 - Organization for Economic Cooperation and Development. (2011). <u>Divided We Stand:</u>
 <u>Why Inequality Keeps Rising.</u> Paris, France: OECD Publishing.
 - Handout for OECD (2011).
 - Extract from OECD (2011).

- Congressional Budget Office. (2011). "<u>Trends in the Distribution of Household Income</u>
 <u>Between 1979 and 2007</u>." Washington, DC: Congress of the United States, Congressional
 Budget Office.
 - <u>Handout</u> for Congressional Budget Office (2011).
- Rosenzweig, Mark. (2010). "Global Wage Inequality and the International Flow of <u>Migrants</u>," in <u>Equity and Growth in a Globalizing World</u>, Ravi Kanbur and Michael Spence, eds. Washington, DC: The World Bank.
 - <u>Handout</u> for Rosenzweig (2010).
- Wage and Earnings Inequality
 - Goldin, C. and L. Katz. (2007). "Long-Run Changes in the Wage Structure: Narrowing, Widening, Polarizing." Brookings Papers on Economic Activity, 2:135-165.
 - Handout on Goldin and Katz (2007).
 - Autor, D., L. Katz, and M. Kearney. (2008). "<u>Trends in U.S. Wage Inequality:</u> <u>Revising the Revisionists</u>," *Review of Economics and Statistics* 90(2): 300-323.
 - Handout for Autor, Katz, and Kearney (2008).
 - Acemoglu, Daron and David Autor. (2011). "Skills, Tasks and Technologies: Implications for Employment and Earnings," In: Orley Ashenfelter and David Card, (eds.), Handbook of Labor Economics, Volume 4, Part B, Chapter 12. Amsterdam: Elsevier. pp. 1043-1171.
 - <u>Handout</u> for Acemoglu and Autor (2011)
 - Data Extract
 - Theory Extract
 - Handout: Acemoglu, D. and D. Autor. (2011). "Skills, Tasks and Technologies Beyond the Canonical Model"
 - Piketty, Thomas and Saez, Emmanuel. (2004). Updated and expanded version of "Income Inequality in the United States, 1913-2002." Originally published in: Quarterly Journal of Economics, 118(1): 1-39.
 - Updated Tables and Figures, 2007
 - Updated Tables and Figures, 2010
 - Handout for Piketty and Saez (2004).
 - Kopczuk, Wojciech, and Emmanuel Saez, and Jae Song. (2010). "<u>Earnings</u>
 <u>Inequality and Mobility in the United States: Evidence from Social Security Data</u>
 <u>Since 1937</u>." *Quarterly Journal of Economics*, 125(1): 91-128.
 - <u>Handout</u> for Kopczuk, Saez, and Song (2010).
 - Tables and Figures
 - Gottschalk, P. and R. Moffitt. (2009). "<u>The Rising Instability of U.S. Earnings.</u>"
 Journal of Economic Perspectives, 23(4): 3-24.
 - <u>Handout</u> for Gottschalk and Moffitt (2009).
 - Atkinson, A., T. Piketty, and E. Saez. 2011. "Top Incomes in the Long Run of

- History." Journal of Economic Literature 49: 3-71.
 - <u>Handout</u> for Atkinson, Piketty, and Saez (2011).
- Jäntti, Markus and Stephen P. Jenkins (2010). "The Impact of Macroeconomic Conditions on Income Inequality," Journal of Economic Inequality, 8(2): 221-240.
 - Handout for Jäntti and Jenkins (2010).
- 2. Consumption and Welfare: Going Beyond Earnings Inequality
 - Handout: Moreira, Sara. (2013). "Consumption Inequality: The role of measurement problems."
 - Attanasio, Orazio, Battistin, Eric, Ichimura, Hidehiko. (2007). "What really happened to consumption inequality in the US?" In: Berndt, E., Hulten, C. (Eds.), Hard-to-Measure Goods and Services: Essays in Honor of Zvi Griliches. University of Chicago Press, Chicago.
 - <u>Handout</u> for Attanasio, Battistin, and Ichimura (2007).
 - Attanasio, Orazio; Hurst, Erik and Pistaferri, Luigi. (2012). "The Evolution of Income, Consumption, and Leisure Inequality in The US, 1980-2010." National Bureau of Economic Research Working Paper No. 17982.
 - <u>Handout</u> for Attanasio, Hurst, and Pistaferri (2012)
 - Aguiar, Mark A. and Mark Bils. (2012). "<u>Has Consumption Inequality Mirrored Income Inequality?</u>" Unpublished working paper, Princeton University.
 - <u>Handout</u> for Aguiar and Bils (2011).
 - Meyer, Bruce C. and James X. Sullivan. (2011). "The Material Well-Being of the Poor and the Middle Class Since 1980," American Enterprise Institute Working Paper No. 2011-04.
 - <u>Handout</u> for Meyer and Sullivan (2011).
 - Meyer, Bruce C. and James X. Sullivan. (2012). "Winning the War: Poverty from the Great Society to the Great Recession," Forthcoming, Brookings Papers on Economic Activity.
 - HANDOUT for Meyer and Sullivan (2012).
 - Krueger, Dirk, Fabrizio Perri, Luigi Pistaferri, Giovanni L. Violante. (2010). "Cross-sectional Facts for Macroeconomists." *Review of Economic Dynamics*, 13(1): 1-14.
 - <u>Handout</u> for Krueger, Perri, Pistaferri, and Violante (2010).
 - Fisher, Jonathan, Johnson, David S., and Smeeding, Timothy M. (2012). "Inequality of Income and Consumption: Measuring the Trends in Inequality from 1985-2010 for the Same Individuals," Presented at the Association for Public Policy Analysis and Management 2012 Fall Research Conference, Baltimore, MD, November 8, 2012.
- 3. Intergenerational Mobility
 - Solon, Gary. (2002). "Cross-Country Differences in Intergenerational Earnings <u>Mobility</u>," *Journal of Economic Perspectives*, 16: 59-66.
 - Handout for Solon (2002)
 - Charles, Kerwin Kofi and Hurst, Erik. (2003). "The Correlation of Wealth across

- Generations," Journal of Political Economy, 111(6): 1155-1182.
 - <u>Handout</u> on Charles and Hurst (2003).
- Corak, Miles. (2006). "<u>Do Poor Children Become Poor Adults? Lessons from a Cross Country Comparison of Generational Earnings Mobility</u>," IZA Discussion Paper No. 1993.
 - Handout for Corak (1993).
- Corak, Miles, Gustafsson, Björn, and Österberg, Torun. (2004). "Intergenerational Influences on the Receipt of Unemployment Insurance in Canada and Sweden," in Generational Income Mobility in North America and Europe, M. Corak, ed. Cambridge, UK: Cambridge University Press. pp. 245-288.
- Jäntti, Markus, Bratsberg, Bernt, Røed, Knut, Raaum, Oddbjørn, Naylor, Robin, Österbacka, Eva, Björklund, Anders, and Eriksson, Tor. (2006). "American Exceptionalism in a New Light: A Comparison of Intergenerational Earnings Mobility in the Nordic Countries, the United Kingdom and the United States," IZA Discussion Paper No. 1938.
 - Handout for Jäntti, et al. (2006).
- Black, Sandra E. and Paul J. Devereux. (2011). "Recent Developments in Intergenerational Mobility," In Orley Ashenfelter and David Card, eds., Handbook of Labor Economics, Vol. 4. Amsterdam: Elsevier, 2011. pp. 1487-1541.
 - Handout for Black and Devereux (2011).
- C. Mincer Models for Earnings and Schooling: A Basic Framework for Measurement and Interpretation
- Heckman, James J.; Lochner, Lance J. and Todd, Petra E. (2006). "<u>Earnings Functions, Rates of Return and Treatment Effects: The Mincer Equation and Beyond</u>." in *Handbook of the Economics of Education*, E. A. Hanushek, and F. Welch, eds. Amsterdam: North-Holland. pp. 307-458.
 - Handout for Heckman, Lochner, and Todd (2006).

II. Consumption, Wealth, and Earnings Dynamics

- Lecture Video: Mosso, Stefano. (2012). "Income Processes and Consumption Choices Over the
 <u>Life-Cycle, Part 1</u>," and Handout: "Income Processes and Consumption Choices Over the
 <u>Life-Cycle, Part 2</u>," Presented at the Summer School on Socioeconomic Inequality 2012,
 Chicago, IL. July 9, 2012.
- Browning, Martin, Lars Peter Hansen and James J. Heckman. (1999). "Micro Data and General Equilibrium Models," in J. Taylor and M. Woodford, eds. Handbook of Macroeconomics.
 Amsterdam: North-Holland. pp. 543-633.
 - Handout for Browning, Hansen, and Heckman (1999).
 - Extract of Browning, Hansen, and Heckman (1999).
 - Permanent Income, Intertemporal Substitution and Credit Constraints (2009).

- Meghir, Costas and Luigi Pistaferri. (2011). "<u>Earnings, Consumption and Life Cycle Choices</u>," In:
 Orley Ashenfelter and David Card, eds., *Handbook of Labor Economics*, Vol. 4, Part B.
 Amsterdam: Elsevier. pp. 773-854.
 - Handout for Meghir and Pistaferri (2011).
- Meghir, Costas, and Luigi Pistaferri. (2004). "Income Variance Dynamics and Heterogeneity."
 Econometrica, 72(1): 1-32.
 - Handout for Meghir and Pistaferri (2004).
- Adda, Jerome, Christian Dustmann, Costas Meghir, and Jean-Marc Robin. (2013). "<u>Career Progression, Economic Downturns, and Skills</u>," Unpublished manuscript, Institute for Fiscal Policy.
 - HANDOUT for Adda, Dustmann, Meghir, and Robin (2013).
- Krueger, D. and F. Perri. (2006). "<u>Does Income Inequality Lead to Consumption Inequality?</u>
 <u>Evidence and Theory</u>." *Review of Economic Studies*, 73(1): 163-193.
 - Handout for Krueger and Perri (2006)
 - Full Handout for Krueger and Perri (2006).
- Blundell, Richard and Etheridge, Ben. (2010). "Consumption, Income and Earnings Inequality in Britain." Review of Economic Dynamics, 13(1): 76-102.
 - Handout for Blundell and Etheridge (2010).
 - Full Handout for Blundell and Etheridge (2010).
- Blundell, R., L. Pistaferri, and I. Preston. (2008). "Consumption Inequality and Partial Insurance." American Economic Review, 98(5): 1887-1921.
 - Handout for Blundell, Pistaferri, and Preston (2008).
 - Full Handout for Blundell, Pistaferri, and Preston (2008).
- Blundell, Richard and Ian Preston. (1998). "Consumption Inequality and Income Uncertainty," *Quarterly Journal of Economics*, 113(2): 603-640.
 - Handout for Blundell and Preston (1998).
- Violante, Gianluca. (2012). "Partial Consumption Insurance: Measurement and Models,"
 Presented at the Becker-Friedman Institute Macroeconomics Lecture Series, November 2012.
- Browning, Martin, and Ejrnæs, Mette. (2010). "Modelling Income Processes with Lots of Heterogeneity," Review of Economic Studies, 77(4): 1353-1381.
 - Handout for Browning and Ejrnæs, (2010).
 - Extract of Browning and Ejrnæs, (2010).
- Hause, John C. (1980, May). "The fine structure of earnings and the on-the-job training hypothesis." *Econometrica* 48 (4): 1013-1029.
 - Handout for Hause (1980).
- Taber, Christopher and Sanders, Carl. (2012). "Life-Cycle Wage Growth and Heterogeneous Human Capital," *Annual Reviews of Economics*, 4: 399-425.
 - o Handout for Taber and Sanders (2011).
- Haider, Steven J. (2001); "<u>Earnings Instability and Earnings Inequality of Males in the United States: 1967-1991</u>." *Journal of Labor Economics* 19(4): 799-836.

7 of 22

- Handout for Haider (2001).
- Haider, Steven and Gary Solon. (2006). "<u>Life-Cycle Variation in the Association between</u>
 <u>Current and Lifetime Earnings</u>." *American Economic Review*, 96(4): 1308-1320.
 - Handout for Haider and Solon (2006).
- Hryshko, Dmytro. (2012). "<u>Labor Income Profiles Are Not Heterogeneous: Evidence from Income Growth Rates</u>," *Quantitative Economics*, 3(2): 177-209.
 - o Full Handout for Hryshko (2012).
 - Handout by Hryshko (2013).
- Hryshko, Dmytro. (2012). "<u>RIP to HIP: The Data Reject Heterogeneous Labor Income Profiles</u>, " Unpublished manuscript, Department of Economics, University of Alberta.
 - Handout for Hryshko (2009).
- Moffitt, Robert A. and Peter Gottschalk. (2012). "<u>Trends in the Transitory Variance of Male Earnings: Methods and Evidence.</u>" *Journal of Human Resources*, 47(1): 204-236.
 - o Handout for Moffitt and Gottschalk (2012).
- Gottschalk, Peter and Robert Moffitt. (1994). "<u>The Growth of Earnings Instability in the U.S.</u>
 Labor Market." Brookings Papers on Economic Activity No. 2, pp. 217-272.
 - o Handout for Gottschalk and Moffitt (1994).
- Attanasio, Orazio P and Nicola Pavoni. (2011). "Risk Sharing in Private Information Models With Asset Accumulation: Explaining the Excess Smoothness of Consumption." Econometrica, 79(4): 1027-1068.
 - Handout for Attanasio and Pavoni (2011).
- Aiyagari, S. Rao. (1994). "<u>Uninsured Idiosyncratic Risk and Aggregate Saving</u>," *Quarterly Journal of Economics*, 109(3): 659-684.
 - Handout for Aiyagari (1994).
- Kaplan, Greg; Violante, Giovanni L. (2010). "How Much Consumption Insurance beyond Self-Insurance?" *American Economic Journal: Macroeconomics*, 2(4): 53-87.
 - Handout for Kaplan and Violante (2010).
- Heathcote, Jonathan, Storesletten, Kjetil, and Violante, Giovanni L. (2012). "Consumption and Labor Supply with Partial Insurance: An Analytical Framework," Unpublished manuscript, Federal Reserve Bank of Minneapolis.
 - Handout for Heathcote, Storesletten, and Violante (2012).
- Blundell, Richard; Pistaferri, Luigi, and Saporta-Eksten, Itay. (2012). "Consumption Inequality and Family Labor Supply." National Bureau of Economic Research Working Paper No. 18445.
 - Handout for Blundell, Pistaferri, and Saporta-Eksten (2012).
- Attanasio, Orazio and Davis, Steven J. (1996). "Relative Wage Movements and the Distribution of Consumption," *Journal of Political Economy*, 104(6): 1227-1262.
 - Handout for Attanasio and Davis (1996).
- Heathcote, Jonathan; and Storesletten, Kjetil; and Violante, Giovanni L. (2010). "<u>The Macroeconomic Implications of Rising Wage Inequality in the United States</u>," *Journal of Political Economy*, 118(4): 681-722.

- Handout for Heathcote, Storesletten, and Violante (2010).
- Heathcote, Jonathan, Storesletten, Kjetil, and Violante, Giovanni L. (2011). "From Wages to Welfare: Decomposing Gains and Losses from Rising Inequality," Unpublished manuscript, Federal Reserve Bank of Minneapolis. Presented at the Tenth World Congress of the Econometric Society, Shanghai, China, 2011.
 - Handout for Heathcote, Storesletten, and Violante (2011).
- Handouts:
 - Risk-Return Relationships in More General Models (2009).
 - o Lise, Jeremy. (2009). "Income Processes/Shocks, Market Structure, and Information."

III. Aquisition and Pricing of Skills

- 1. Education: Determinants, Returns, Dynamics, and Option Value
 - Rubinstein, Yona and Yoram Weiss. (2006). "Post Schooling Wage Growth: Investment,
 Search and Learning," In: E. Hanushek and F. Welch, (eds.), Handbook of the Economics
 of Education, Volume 1, Chapter 1. Amsterdam: Elsevier. pp. 1-67.
 - <u>Handout</u> for Rubinstein and Weiss (2006).
 - Lecture Video: Lochner, Lance. (2012). "<u>Education and Inequality, Part 1</u>," and "<u>Education and Inequality, Part 2</u>," Presented at the Summer School on Socioeconomic Inequality 2012, Chicago, IL. July 9, 2012.
 - Willis, Robert and Sherwin Rosen. (1979). "<u>Education and Self-Selection</u>," *Journal of Political Economy*, 87(5, Part 2):S7-S36.
 - Handout for Willis and Rosen. (1979) .
 - Handout: "Notes on Identification of the Roy Model and the Generalized Roy Model and the Benefits of a Factor Structure Model"
 - Carneiro, Pedro and James J. Heckman. (2002). "<u>The Evidence on Credit Constraints in Post-Secondary Schooling</u>," *Economic Journal* 112(482):705-734.
 - Handout for Carneiro and Heckman (2002).
- 2. Sorting of Workers and Pricing of Skills
 - a. Efficiency Unit Models
 - Heckman, James J. and Jose Scheinkman. (1987). "The Importance of Bundling in A Gorman-Lancaster Model of Demand For Characteristics: A Theoretical Analysis With Evidence From the Labor Market." Review of Economic Studies, 54(2):243-255.
 - Handout: "Evidence on Efficiency Unit Models: Is Comparative Advantage & Sorting Needed to Explain Wages? An Efficiency Units Model with Multiple Skills that Can, Under Certain Conditions, Produce a Model of Comparative Advantage: Notes on 'The Importance of Bundling in a Gorman-Lancaster Model of Earnings'."
 - b. Roy Model and Models of Comparative Advantage
 - Heckman, James J., and Bo E. Honore. (1990). "The Empirical Content of the Roy

Model." Econometrica, 58(5): 1121-1149.

- <u>Handout</u> for Heckman and Honore (1990).
- Handout: "Econometric Causality and the Roy Model"
- Handout: Almlund, Mathilde, and James J. Heckman. (2012). "The Roy Model and the Generalized Roy Model." Appendix.
- Handout: "Notes on Generalized Roy Model."
- Handout: "The Generalized Roy Model Applied to the Problem of Policy Evaluation."
- Heckman, J. and G. Sedlacek (1985). "<u>Heterogeneity, Aggregation and Market</u> <u>Wage Functions: An Empirical Model of Self-Selection in the Labor Market</u>," *Journal of Political Economy*, 93(6), 1077-1125.
 - Handout for Heckman and Sedlacek (1985).
- Acemoglu, Daron and David Autor. (2011). "Skills, Tasks and Technologies: Implications for Employment and Earnings," In: Orley Ashenfelter and David Card, (eds.), Handbook of Labor Economics, Volume 4, Part B, Chapter 12. Amsterdam: Elsevier. pp. 1043-1171.
 - Handout for Acemoglu and Autor (2011)
 - Data Extract
 - Theory Extract
 - Handout: Acemoglu, D. and D. Autor. (2011). "Skills, Tasks and Technologies Beyond the Canonical Model"
- Costinot, Arnaud and Vogel, Jonathan. (2010). "Matching and Inequality in the World Economy," Journal of Political Economy, 118(4): pp. 747-786.
 - Handout for Costinot and Vogel (2010).
- Borjas, George J. (1987). "Self-Selection and the Earnings of Immigrants." *American Economic Review*, 77(4): 531-553.
 - Handout for Borjas (1987).
- c. Hedonic Models and Sorting
 - Handout: Heckman, James J. (2012). "<u>Hedonic Models and Sorting (Nonlinear</u> Pricing)."
 - Sattinger, Michael. (1979). "<u>Differential Rents and the Distribution of Earnings</u>,"
 Oxford Economic Papers, 31(1): 60-71.
 - Detailed Notes on Sattinger (1979)
 - Tinbergen, Jan. (1956). "On the Theory of Income Distribution." Weltwirtschaftliches Archiv, 77(2):155-173. Reprinted in Tinbergen, Jan. (1959). Selected Papers, L.H. Klaassen, L.M. Koyck and H.J. Witteveen, eds. Amsterdam: North-Holland.
 - Extracts from Tinbergen (1956).
 - Handout: "Tinbergen and Rosen Hedonic Models."
 - Handout: Eeckhout, Jan and Philipp Kircher. (2011). "Sorting and Factor Intensity: Production and Unemployment across Skills," Presented at the Milton Friedman

- Institute, University of Chicago, May 2011.
- Ekeland, Ivar, James J. Heckman and Lars Nesheim. (2004). "Identification and Estimation of Hedonic Models." *Journal of Political Economy*, 112(S1):S60-S109.
 - Handout for Ekeland, Heckman, and Nesheim (2004).
- Kniesner, Thomas J. and John D. Leeth. (1988). "Simulating Hedonic Labor Market Models: Computational Issues and Policy Applications," International Economic Review, 29(4): 755-789.
 - Handout for Kniesner and Leeth (1988).
- Chiappori, Pierre-André, Robert McCann, and Lars Nesheim. (2010). "Hedonic Price Equilibria, Stable Matching, and Optimal Transport: Equivalence, Topology, and Uniqueness." Economic Theory, 42(2): 317-354.
 - <u>Handout</u> for Chiappori, McCann, and Nesheim (2010).
- Kanemoto, Yoshitsugu. (1988). "Hedonic Prices and the Benefits of Public Projects." Econometrica, 56(4): 981-989.
 - Handout for Kanemoto (1988).

d. Preferences and Traits

- Handout: Heckman, James J. (2012). "<u>The Economics of Personality</u>" Presented at the Summer School on Socioeconomic Inequality 2012, Chicago, IL. July 9, 2012. <u>Supplemental Slides</u>.
- Almlund, Mathilde, Duckworth, Angela Lee, Heckman, James J., and Kautz, Timothy. (2011). "Personality Psychology and Economics," In Handbook of the Economics of Education, E. Hanushek, S. Machin, and S. Woessman, eds. Amsterdam: Elsevier. pp. 1-181. IZA Working Paper version.
 - <u>Handout</u> for Almlund, Duckworth, Heckman, and Kautz (2011).
 - Handout: Golsteyn, Bart H.H., Lex Borghans, James J. Heckman, and John Eric Humphries. (2010). "IQ, Achievement, and Noncognitive Skill"
- Heckman, James J. and Tim Kautz. (2012). "<u>Hard Evidence on Soft Skills</u>," Adam Smith Lecture, *Labour Economics*, 19(4): 451-464. (2012).
 - Handout: Heckman, James J. (2012). "Hard Evidence on Soft Skills."
- Lindqvist, Erik, and Vestman, Roine. (2011). "The Labor Market Returns to Cognitive and Noncognitive Ability: Evidence from the Swedish Enlistment." American Economic Journal: Applied Economics, 3(1): 101–128.
 - Handout for Lindqvist and Vestman (2011).
- Heckman, James J., Jora Stixrud, and Sergio Urzua. (2006). "The Effects of Cognitive and Noncognitive Abilities on Labor Market Outcomes and Social Behavior," Journal of Labor Economics, 24(3):411-482.
 - <u>Handout</u> for Heckman, Stixrud, and Urzua (2006).
 - <u>Handout</u> for Heckman, Stixrud, and Urzua, The Chicago Workshop on Black-White Inequality, April, 2006.
- Borghans, Lex, Angela L. Duckworth, James J. Heckman, and Bas ter Weel. (2008).

- "<u>The Economics and Psychology of Personality Traits</u>." *Journal of Human Resources*, 43(3):972-1059.
 - <u>Handout</u> for Borghans, et al. (2008).
- Polachek, Solomon W., Tirthatanmoy Das, and Rewat Thamma-Apiroam. (2012).
 "Heterogeneity in the Production of Human Capital," Under review, Journal of Political Economy.
 - HANDOUT for Polachek, Das, et al. (2012).
- 3. Models of Post-School Investment and Wage Growth
 - Ben-Porath, Yoram. (1967). "<u>The Production of Human Capital and the Life Cycle of Earnings</u>." *Journal of Political Economy* 75(4, Part I):352-365.
 - Handouts:
 - Notes on Ben-Porath
 - Generalized Ben-Porath Notes
 - Sheshinski Specification
 - Imai, Susumu, and Michael P. Keane. (2004). "Intertemporal Labor Supply and Human Capital Accumulation," International Economic Review, 45(2): 601-641.
 - Handout for Imai and Keane
 - Heckman, James J., Lochner, Lance and Cossa, Ricardo. (2003). "<u>Learning-by-Doing versus On-the-Job Training: Using Variation Induced by the EITC to Distinguish between Models of Skill Formation</u>," in E. Phelps, ed. *Designing Inclusion: Tools to Raise Low-End Pay and Employment in Private Enterprise*. New York: Cambridge University Press. pp. 74-130.
 - <u>Handout</u> for Heckman, Lochner and Cossa (2003)
 - Extract of Heckman, Lochner and Cossa (2003).
 - Sullivan, Paul. (2010). "A Dynamic Analysis of Educational Attainment, Occupational Choices, and Job Search," International Economic Review, 51(1): 289-317.
 - Handout for Sullivan (2010)
 - Gladden, Tricia and Christopher Taber. (2000). "Wage Progression Among Less Skilled Workers," In Finding Jobs: Work and Welfare Reform, D. Card and R. Blank (eds.). New York: Russell Sage Foundation. pp. 160-192.
 - <u>Handout</u> for Gladden and Taber (2000).
 - a. Uncertainty, Learning, and Wage Growth
 - Altonji, Joseph G. and Charles R. Pierret. (2001). "Employer Learning and Statistical Discrimination," Quarterly Journal of Economics. 116(1):313-350.
 - Handout for Altonji and Pierret (2001).
 - Johnson, William R. (1978). "A Theory of Job Shopping," Quarterly Journal of Economics, 92(2): 261-278.
 - Handouts:
 - <u>Handout</u> for Johnson (1978).
 - Enlarged version of Johnson (1978).

- Miller, Robert A. (1984). "Job Matching and Occupational Choice," Journal of Political Economy, 92(6):1086-1120.
 - <u>Handout</u> for Miller (1984).
 - "Gittins Index and Miller's Model of Turnover"
- Robinson, Chris. (2011). "Occupational Mobility, Occupation Distance and Specific Human Capital," CBIC Working Paper No. 2011-5.
 - <u>Handout</u> for Robinson (2011)
- Handouts:
 - "A Matching Model"
 - Heckman, James J. (2008). "Employer Learning."
- Jovanovic, Boyan and Yaw Nyarko. (1997). "<u>Stepping-Stone Mobility</u>," Carnegie-Rochester Conference Series on Public Policy, 46: 289-325.
 - Handout for Jovanovic and Nyarko (1997).
- Kambourov, G. and I. Manovskii, I. (2009). "Occupational Mobility and Wage Inequality." Review of Economic Studies, 76: 731–759.
 - Handout for Kambourov and Manovskii (2009)
- Antonovics, Kate and Limor Golan. (2011). "<u>Experimentation and Job Choice</u>,"
 Working paper, Carnegie Mellon University.
 - <u>Handout</u> for Antonovics and Golan (2011)
- Handout: Eisenhauer, Philipp, James J. Heckman, and Stefano Mosso. (2011). "The 'Option Value' of Educational Choices."

IV. Labor Supply and Labor Demand (Hours and Participation)

- 1. Labor Supply
 - Heckman, James J. (1993). "What Has Been Learned About Labor Supply in the Past Twenty Years?" American Economic Review, 83(2):116-121.
 - Handout for Heckman (1993).
 - Blundell, Richard and Thomas MaCurdy. (1999). "<u>Labor Supply: A Review of Alternative Approaches</u>," in O. Ashenfelter and D. Card, eds. *Handbook of Labor Economics*, Volume 3A. Amsterdam: Elsevier. pp. 1559-1695.
 - Handout for Blundell and MaCurdy (1999).
 - Keane, Michael. (2010). "<u>Labor Supply and Taxes: A Survey</u>." *Journal of Economic Literature*, 49(4): 961-1075
 - <u>Handout</u> for Keane (2010).
 - Extract from Keane (2010).
 - Keane, Michael P. and Richard Rogerson. (2011). "<u>Reconciling Micro and Macro Labor Supply Elasticities: A Structural Perspective</u>," National Bureau of Economic Research Working Paper No. 17430.
 - <u>Handout</u> for Keane and Rogerson (2011).
 - Extract from Keane and Rogerson (2011).

- Gruber, Jon and Emmanuel Saez. (2002). "<u>The Elasticity of Taxable Income: Evidence and Implications</u>." *Journal of Public Economics*, 84(1): 1-32.
 - <u>Handout</u> for Gruber and Saez (2002).
- Saez, Emmanuel, Joel Slemord and Seth H. Giertz. (2012). "<u>The Elasticity of Taxable Income with Respect to Marginal Tax Rates: A Critical Review</u>," *Journal of Economic Literature*, 50(1):3-50.
 - HANDOUT for Saez, Slemord, and Giertz (2012).
- Blundell, Richard, Antoine Bozio and Guy Laroque. (2011). "<u>Extensive and Intensive</u>
 <u>Margins of Labour Supply: Working Hours in the US, UK and France</u>," IFS Working Paper
 No. 1101.
 - <u>Handout</u> for Blundell, Bozio, and Laroque (2011).
- Aguiar, Mark and Erik Hurst. (2007). "Measuring Trends in Leisure: The Allocation of Time over Five Decades." Quarterly Journal of Economics, 122(3):969-1006.
 - <u>Handout</u> for Aguiar and Hurst (2007).
- Mulligan, Casey, and Yona Rubinstein. (2008). "Selection, Investment, and Women's Relative Wages Over Time," Quarterly Journal of Economics 123(3): 1061-1110.
 - <u>Handout</u> for Mulligan and Rubinstein (2008).
- o Handouts:
 - <u>Labor Supply and the Two-Step Estimator</u> (2007).
 - Heckman, J. (2007). Labor Supply
 - <u>Lifecycle Labor Supply: The Intertemporal Substitution Hypothesis (ISH) and the "λ</u> Constant" Functions (2009).

2. Labor Demand

- Acemoglu, Daron and David Autor. (2011). "Skills, Tasks and Technologies: Implications for Employment and Earnings," In: Orley Ashenfelter and David Card, (eds.), Handbook of Labor Economics, Volume 4, Part B, Chapter 12. Amsterdam: Elsevier. pp. 1043-1171.
 - Handout for Acemoglu and Autor (2011)
 - Data Extract
 - Theory Extract
 - Handout: Acemoglu, D. and D. Autor. (2011). "Skills, Tasks and Technologies
 Beyond the Canonical Model"
- Autor, D., L. Katz, and M. Kearney. (2008). "<u>Trends in U.S. Wage Inequality: Revising the</u> Revisionists," *Review of Economics and Statistics* 90(2): 300-323.
 - Handout for Autor, Katz, and Kearney (2008).
- Goldin, C. and L.M. Katz. (1998). "<u>The Origins of Technology-Skill Complementarity</u>."
 Quarterly Journal of Economics, 113(3): 693-732.
 - Handout for Goldin and Katz (1998).
- Hornstein, A., P. Krusell and G.L. Violante. (2005). "<u>The Effects of Technical Change on Labor Market Inequalities</u>." In *Handbook of Economic Growth*, 1B (Elsevier Press: Amsterdam), 1275-1370.

- <u>Handout</u> for Hornstein, Krusell, and Violante (2005).
- Krusell, P., Ohanian, L. E., Ríos-Rull, J. V., and Violante, G. L. (2000). "<u>Capital-Skill Complementarity and Inequality: A Macroeconomic Analysis</u>." *Econometrica*, 68(5): 1029-1053.

V. Role of Family: Intergenerational Mobility, Skill Formation, and Health

- 1. Intra-Household Allocations and Inequality (Lecturer: Alessandra Voena)
 - i. Introduction to intrahousehold decision making
 - Becker, G. (1991). A Treatise on the Family. Cambridge, MA: Harvard University Press. Chapter 2.
 - Manser, M., and M. Brown. (1980). "Marriage and household decision-making: A bargaining analysis," International Economic Review, 21(1): 31-44.
 - McElroy, M., and M. Horney. (1981). "Nash-bargained household decisions: Toward a generalization of the theory of demand," International Economic Review, 22(2): 333-349.
 - Lundberg, S., and R. Pollak. (1993). "Separate spheres bargaining and the marriage market," *Journal of Political Economy*, 101(6): 988-1010.
 - Browning, M., and P. Chiappori. (1998). "<u>Efficient intra-household allocations: A general characterization and empirical tests</u>," *Econometrica*, 1241-1278.
 - For an overview, see <u>Chapter 3</u> of Browning, Martin, Pierre Andre Chiappori, and Yoram Weiss. (2012). *Family Economics*. Cambridge, UK: Cambridge University Press. .
 - ii. Income pooling and intra-household allocations
 - Thomas, D. (1990): "Intra-household resource allocation: An inferential approach," *Journal of Human Resources*, 25(4): 635-664.
 - Attanasio, O. and Lechene, V. (2002). "<u>Tests of Income Pooling in Household Decisions</u>," *Review of Economic Dynamics*, 5(4): 720-748.
 - Duflo, E. and Udry, C. (2004). "Intrahousehold Resource Allocation in Cote d'Ivoire: Social Norms, Separate Accounts and Consumption Choices," NBER Working Paper No. 10498.
 - iii. The collective model: theory and applications
 - Chiappori, P. (1992). "Collective labor supply and welfare," Journal of Political Economy, 100(3): 437-467.
 - Chiappori, Pierre-Andre; Fortin, Bernard and Lacroix, Guy (2002). "Marriage Market,
 Divorce Legislation, and Household Labor Supply," Journal of Political Economy,
 110(1): 37-72.
 - Blundell, R., P. Chiappori, and C. Meghir. (2005). "Collective labor supply with children," *Journal of Political Economy*, 113(6): 1277-1306.
 - Blundell, R., P. Chiappori, T. Magnac, and C. Meghir (2007): "Collective labour supply: Heterogeneity and non-participation," Review of Economic Studies, 74(2):

417-445.

- Bobonis, G. (2009): "Is the allocation of resources within the household efficient? New evidence from a randomized experiment," *Journal of Political Economy*, 117(3): 453-503.
- Attanasio, O., and V. Lechene (2011): "<u>Efficient responses to targeted cash</u> <u>transfers</u>," Unpublished manuscript, University College London, Department of Economics.
- iv. Efficiency in intra-household decision making
 - Udry, C. (1996). "Gender, agricultural production, and the theory of the household," Journal of Political Economy, 104(5): 1010-1046.
 - Del Boca, D., and C. Flinn. (2012). "Endogenous household interaction," *Journal of Econometrics*, 166(1): 49-65.
- v. Intra-household allocations and inequality
 - Lise, J., and S. Seitz. (2011). "Consumption inequality and intra-household allocations," Review of Economic Studies, 78(1): 328-355.
- vi. Dynamic models of intra-household decisions
 - Ligon, E. (2011): "<u>Dynamic bargaining in households (with an application to Bangladesh)</u>," Unpublished manuscript, University of California, Berkeley, Department of Economics.
 - Mazzocco, M. (2007). "<u>Household intertemporal behaviour: A collective</u> <u>characterization and a test of commitment</u>," *Review of Economic Studies*, 74(3): 857-895.
 - Mazzocco, M., S. Yamaguchi, and C. Ruiz (2006): "<u>Labor supply, wealth dynamics,</u> and marriage decisions," University of Wisconsin Economics Department Working paper.
 - Gemici, A. (2011): "<u>Family Migration and Labor Market Outcomes</u>," Unpublished manuscript, New York University, Department of Economics.
 - Voena, A. (2011): "<u>Yours, Mine and Ours: Do Divorce Laws Affect the Intertemporal</u> Behavior of Married Couples?," SIEPR Discussion Paper 10-022.
- 2. Family Influence: Genes, Environments, and Intergenerational Transmission Mechanisms
 - Lecture Video: Chiappori, Pierre-Andre. 2012. "Families and Inequality, Part 1," and
 "Families and Inequality, Part 2," Presented at the Summer School on Socioeconomic Inequality 2012, Chicago, IL. July 13, 2012.
 - Lecture Video: Heckman, James J. 2012. "<u>Early Childhood Inequality</u>," Presented at the Summer School on Socioeconomic Inequality 2012, Chicago, IL. July 13, 2012.
 - Becker, Gary S. and Tomes, Nigel. (1986). "<u>Human Capital and the Rise and Fall of Families</u>." *Journal of Labor Economics*, 4(3, Part 2): S1-S39.
 - Handout for Becker and Tomes (1986).
 - Handout: Heckman, James J. (2012). "<u>The Economics of the Family and the Economics of</u>
 <u>Child Development</u>," Presented at the session "Celebrating the 30th Anniversary of the

- Publication of Gary Becker's *Treatise on the Family*," AEA Annual Meeting, Chicago, IL. January 8, 2012.
- Bratsberg, Bernt, Knut Røed, Oddbjørn Raaum, Robin Naylor, Markus Jäntti, Tor Eriksson, and Eva Österbacka. (2007). "Nonlinearities in Intergenerational Earnings Mobility:
 Consequences for Cross-Country Comparisons," Economic Journal, 117(519): C72-C92.
 - <u>Handout</u> for Bratsberg, Røed, Raaum, et al. (2007).
- Heckman, James J. (2008). "Schools, Skills, and Synapses." Economic Inquiry, 46(3): 289-324.
 - <u>Handout</u> for Heckman (2008).
- Restuccia, Diego and Carlos Urrutia. (2004). "<u>Intergenerational Persistence of Earnings:</u>
 The Role of Early and College Education," American Economic Review, 94(5): 1354-1378.
 - Handout for Restuccia and Urrutia (2004)
- Altonji, Joseph G. and Thomas A. Dunn. (2000). "<u>An Intergenerational Model of Wages,</u>
 <u>Hours, and Earnings,</u>" *Journal of Human Resources* 35(2): 221-258.
 - Handout for Altonji and Dunn (2000)
- De Nardi, M. (2004). "Wealth Inequality and Intergenerational Links." Review of Economic Studies, 71: 743-768.
 - Handout for De Nardi (2004)
- Behrman, Jere R., Robert A. Pollak, and Paul Taubman (1995). "The Wealth Model:
 <u>Efficiency in Education and Distribution in the Family</u>," in J. Behrman, R.Pollak, and P.
 Taubman, eds. From Parent to Child: Intrahousehold Allocations and Intergenerational
 Relations in the United States. Chicago: University of Chicago Press. pp. 113-138.
 - Handout for Behrman, Pollak, and Taubman (1995).
- Laitner, John (1997). "Intergenerational and Interhousehold Economic Links." in Handbook of Population and Family Economics, Vol. 1A, M. Rosenzweig and O. Stark, eds. Amsterdam: Elsevier Science. pp. 189-238.
 - Handout for Laitner (1997).
- Akabayashi, Hideo. (1995). "A Dynamic Equilibrium Model of Parenting and Child Development with Changing Preferences and Beliefs." Unpublished manuscript, University of Chicago, Department of Economics. Chapter 5 of "On the Role of Incentives on Human Capital Formation in the Family." Ph.D. Dissertation, University of Chicago, Department of Economics. 1996.
 - Handout for Akabayashi (1995).
- Akabyashi, Hideo. (2006). "An Equilibrium Model of Child Maltreatment." Journal of Economic Dynamics and Control 30(6): 993–1025.
 - Handout for Akabayashi (2006).
- Lizzeri, Alessandro and Marciano Siniscalchi. (2008). "Parental Guidance and Supervised Learning." Quarterly Journal of Economics 123(3): 1161-1195.
 - Handout for Lizzeri and Siniscalchi (2008).
- o Björklund, Anders and Kjell G. Salvanes. (2011). "Education and Family Background:

<u>Mechanisms and Policies</u>," In Eric A. Hanushek, Stephen Machin and Ludger Woessmann, eds., *Handbook of the Economics of Education*, Vol. 3, Amsterdam: Elsevier. pp. 201-247.

- <u>Handout</u> on Björklund and Salvanes (2011).
- Currie, Janet and Enrico Moretti. (2007). "Biology as Destiny? Short- and Long-Run Determinants of Intergenerational Transmission of Birth Weight." Journal of Labor Economics, 25(2):231-263.
 - Handout on Currie and Moretti (2007).
- Mulligan, Casey B. (1999). "Galton versus the Human Capital Approach to Inheritance,"
 Journal of Political Economy, 107(S6): S184-S224.
 - Handout for Mulligan (1999)
- Plomin,Robert and Denise Daniels. (1987). "Why are children in the same family so different from one another?" Behavioral and Brain Sciences, 10(01): 1-16.
 - Handout for Plomin and Daniels (1987)
 - Plomin, Robert. (2011). "Commentary: Why are children in the same family so different? Non-shared environment three decades later," International Journal of Epidemiology, 40(3): 582-592.
 - Handout for Plomin (2011)
- Sacerdote, Bruce. (2011). "Nature and Nurture Effects On Children's Outcomes: What
 Have We Learned From Studies of Twins And Adoptees?" In Jess Benhabib, Alberto Bisin
 and Matthew O. Jackson, eds., Handbook of Social Economics, Vol. 1. Amsterdam: North Holland. pp. 1-30.
 - Handout for Sacerdote (2011).
- Solon, Gary (1999). "Intergenerational Mobility in the Labor Market," In: Orley C. Ashenfelter and David Card, eds., Handbook of Labor Economics, Vol. 3, Part A. Amsterdam: Elsevier. pp. 1761-1800.
 - Handout for Solon (1999).
- Liu, Haoming, Zeng, Jinli. (2009). "Genetic Ability and Intergenerational Earnings Mobility." Journal of Population Economics, 22(1): 75-95.
- Waldkirch, Andreas, Serena Ng and Donald Cox. (2004). "Intergenerational Linkages in Consumption Behavior," Journal of Human Resources, 39(20): 355-381.
 - Handout for Waldkirch, Ng and Cox (2004)
- Black, Sandra E. and Paul J. Devereux. (2011). "Recent Developments in Intergenerational Mobility," In Orley Ashenfelter and David Card, eds., Handbook of Labor Economics, Vol. 4. Amsterdam: Elsevier, 2011. pp. 1487-1541.
 - Handout for Black and Devereux (2011).
- Solon, Gary, (2004). "A model of intergenerational mobility variation over time and place,"
 In: Miles Corak, ed., Generational income mobility in North America and Europe,
 Cambridge: Cambridge University Press pp. 38-47.
 - Handout for Solon (2004).

- Nisbett, Richard E., Joshua Aronson, Clancy Blair, William Dickens, James Flynn, Diane Halpern, and Eric Turkheimer. (2012). "<u>Intelligence: New Findings and Theoretical</u> <u>Developments</u>," Forthcoming in *American Psychologist*.
 - Handout for Nisbett, et al. (2012).
- Krueger, Robert F., Susan South, Wendy Johnson, and William Iacono. (2008). "<u>The Heritability of Personality Is Not Always 50%: Gene-Environment Interactions and Correlations Between Personality and Parenting</u>." *Journal of Personality*, 76(6): 1485-1522.
 - <u>Handout</u> for Krueger, South, Johnson, et al. (2008)
- Johnson, Wendy. (2007). "Genetic and Environmental Influences on Behavior: Capturing All the Interplay." Psychological Review, 114(2): 423-440.
 - Handout for Johnson (2007).
- Narusyte, Jurgita, Jenae M. Neiderhiser, Anna-Karin Andershed, Brian M. D'Onofrio, David Reiss, Erica Spotts, Jody Ganiban, and Paul Lichtenstein. (2011). "<u>Parental</u> <u>Criticism and Externalizing Behavior Problems in Adolescents: The Role of Environment and Genotype-Environment Correlation</u>." *Journal of Abnormal Psychology*, 120(2): 365-376.
 - <u>Handout</u> for Narusyte, Neiderhiser, et al. (2011).
- Narusyte, Jurgita, Jenae M. Neiderhiser, Brian M. D'Onofrio, David Reiss, Erica Spotts, Jody Ganiban, and Paul Lichtenstein. (2008). "<u>Testing Different Types of Genotype-Environment Correlation: An Extended Children-of-Twins Model</u>." *Developmental Psychology*, 44(6): 1591-1603.
 - Handout for Narusyte, Neiderhiser, et al. (2008).
- Yuh, Jongil, Jenae M. Neiderhiser, Erica L. Spotts, Nancy L. Pedersen, Paul Lichtenstein, Kjell Hansson, Marianne Cederblad, Olle Elthammer and David Reiss. (2008). "<u>The Role of Temperament and Social Support in Depressive Symptoms: A Twin Study of Mid-Aged Women.</u>" *Journal of Affective Disorders*, 106(1): 99-105.
 - <u>Handout</u> for Yuh, Neiderhiser, et al. (2008).
- Leve, Leslie, David Kerr, Daniel Shaw, Xiaojia Ge, Jenae M. Neiderhiser, Laura Scaramella, John B. Reid, Rand Conger, and David Reiss. (2010). "<u>Infant Pathways to Externalizing Behavior: Evidence of Genotype × Environment Interaction</u>." *Child Development*, 81(1): 340-356.
 - Handout for Leve, Kerr, et al. (2010).
- Neiderhiser, Jenae M. (2011). "<u>How Genes Shape Environments</u>," Presented at The Role of Genetic and Environmental Factors across the Lifecourse: Improving the Rigor of Causal Inference. Chicago, September 2011.
- Handout: Yi, Junjian. (2012). "Gene, Environment, Human Capital, and Inequality: From Behavioral Genetics to Economics."
- Handout: Yi, Junjian and James Best. (2012). "Gene, Environment, Human Capital, and Inequality: From Behavioral Genetics to Economics."

- Haig, D. (2004). "The (Dual) Origin of Epigenetics." Cold Spring Harbor Symposia on Quantitative Biology, 69: 67-70.
- Dickens, William T. and James R. Flynn (2001). "<u>Heritability Estimates Versus Large Environmental Effects: The IQ Paradox Resolved</u>." *Psychological Review*, 108(2): 346-369.
- Lu, Mai. (2012). "A Pilot Program of Early Childhood Development in Qinghai and Yunnan." China Development Research Foundation.
- Lee, Sang Yoon; Seshadri, Ananth (2012). "Nature and Nurture in the Transmission of Economic Status," Unpublished manuscript, Department of Economics, University of Mannheim.
- Putnam, Robert D., Frederick, Carl B., and Kaisa Snellman. (2012). "Growing Class Gaps in Social Connectedness among American Youth, 1975-2009." Working paper, Harvard Kennedy School of Government. Presented at The Saguaro Seminar: Civic Engagement in America, July 10, 2012.
 - Handout for Putnam, Frederick, and Snellman (2012).
- Reardon, Sean F. (2012). "<u>The Widening Academic Achievement Gap Between the Rich</u>
 and the Poor: New Evidence and Possible Explanations," In Whither Opportunity?: Rising
 Inequality, Schools, and Children's Life Chances, G. Duncan and R. Murnane, eds. New
 York: Russell Sage Foundation.
 - <u>Handout</u> for Reardon (2012).
- Keane, Michael P. and John E. Roemer. (2009). "<u>Assessing Policies to Equalize</u>
 <u>Opportunity Using an Equilibrium Model of Educational and Occupational Choices</u>,"
 Journal of Public Economics, 93(7-8): 879-898.
 - Handout for Keane and Roemer (2009).
- 3. The Technology of Skill Formation
 - The Technology of Skill Formation
 - Cunha, Flavio and James J. Heckman. (2009). The Marshall Lecture: "The Economics and Psychology of Inequality and Human Development." Journal of the European Economic Association, 7(2-3): 320-364.
 - Handout for Cunha and Heckman (2009).
 - Cunha, Flavio and James J. Heckman (2007). "The Technology of Skill Formation," *American Economic Review*, 97(2):31-47.
 - Handout for Cunha and Heckman (2007).
 - Estimating the Production Function for Skills
 - Todd, P.E., and Wolpin, K.I. (2003), "On the Specification and Estimation of the Production Function for Cognitive Achievement," *Economic Journal* 113(485): F3-33.
 - Handout for Todd and Wolpin (2003).
 - Todd, Petra E. and Wolpin, Kenneth I. (2007). "The Production of Cognitive Achievement in Children: Home, School and Racial Test Score Gaps," Journal of Human Capital, 1(1):91-136.

- <u>Handout</u> for Todd and Wolpin (2007).
- Cunha, Flavio and Heckman, James J. (2008). "Formulating, Identifying and Estimating the Technology of Cognitive and Noncognitive Skill Formation," Journal of Human Resources, 43(4):738-782.
 - <u>Handout</u> for Cunha and Heckman (2008).
- Cunha, Flavio, James J. Heckman and Susanne Schennach. (2010). "<u>Estimating the Technology of Cognitive and Noncognitive Skill Formation</u>," *Econometrica*, 78(3): 883-931.
 - <u>Handout</u> for Cunha, Heckman, and Schennach (2010).
 - Handout: Heckman, James J. (2010). "The Technology of Skill Formation.
- Del Boca, Daniela, Flinn, Christopher, and Wiswall, Matthew. (2010). "Household Choices and Child Development," Carlo Alberto Notebooks 149, Collegio Carlo Alberto.
 - Handout for Del Boca, et al. (2010).
- Handout: Heckman, James J.; Malofeeva, Lena; Pinto, Rodrigo; and Savelyev,
 Peter. (2011). "<u>Understanding the Mechanisms Through Which an Influential Early
 Childhood Program Boosted Adult Outcomes."
 </u>
- 4. Health Inequality
 - Conti, Gabriella, James J. Heckman, and Sergio Urzua. (2010). "The Education-Health Gradient, "American Economic Review, 100(2): 234-238.
 - <u>Handout</u> for Conti, Heckman, and Urzua (2010).
 - Conti, Gabriella, and Heckman, James J. (2010). "<u>Understanding the Early Origins of the Education</u>—Health Gradient: A Framework That Can Also Be Applied to Analyze
 Gene–Environment Interactions," *Perspectives on Psychological Science*, 5: 585-605.
 - <u>Handout</u> for Conti and Heckman (2010).
 - Handout: Conti, Gabriella, James J. Heckman, and Arianna Zanolini. (2009). "<u>The Developmental Origins of Health: Cognition, Personality, and Education,</u>" Presented at the 6th Annual Nestlé International Nutrition Symposium, Lausanne, Switzerland, October 22, 2009.
 - Handout: Conti, Gabriella. (2012). "<u>The Developmental Origins of Health Inequality</u>,"
 Presented at the American Economic Association meetings session on "The Early Origins of Inequality," January 6, 2012.
 - Handout: Conti, Gabriella and James J. Heckman. (2011). "<u>Developmental Origins of Health</u>," Presented at the Milton Friedman Institute, "Individuals and Institutions in the Health Care Sector," April 28, 2011.
 - Heckman, James J. (2007). "<u>The Economics, Technology and Neuroscience of Human Capability Formation</u>." *Proceedings of the National Academy of Sciences*, 104(33): 13250-13255.
 - <u>Handout</u> for Heckman (2007).
 - Handout: Heckman, James J. (2012). "Genes, Biological Embedding of Experience and

Gene-Environment Interactions."

- Leigh, A., C. Jencks, and T.M. Smeeding. (2009). "Health and Economic Inequalities." In: Oxford Handbook of Economic Inequality, W. Salverda, B. Nolan, and T.M. Smeeding (eds.). Oxford: Oxford University Press. pp. 385-405.
 - <u>Handout</u> for Leigh, Jencks, and Smeeding (2009).
- Marmot, Michael. (2002). "<u>The Influence of Income on Health: Views of An Epidemiologist</u>," *Health Affairs*, 21(2): 31-46.
 - Handout for Marmot (2002).
- Babones, Salvatore J. (2008). "Income Inequality and Population Health: Correlation and Causality." Social Science and Medicine, 66(7):1614-1626.
 - Handout for Babones (2008).
- Wilkinson, R. G., and Pickett, K. E. (2006). "Income Inequality and Health: A Review and Explanation of the Evidence." Social Science and Medicine, 62(7): 1768–1784.
 - Handout for Wilkinson and Pickett (2006).

Search	Site Map Contact Us UChicago		2
© 2003-2004 The University of Chicago® Department of Economics		1	
1126 E. 59th St., Chicago, IL 60637 773-702-1234			

22 of 22



Syllabus / Reading List

<u>Data</u>

Problem Sets

Supplemental Reading List

Technical Syllabus University of Chicago

Economics 350, Winter 2012: Supplemental Reading List

I. Inequality: Facts, Frameworks for Measuring It, and Open Issues

- Aaberge, Rolf and Mogstad, Magne. (2010). "On the Measurement of Long-Term Income Inequality and Income Mobility." IZA Discussion Paper No. 4699.
- Autor, David H. and Katz, Lawrence F. and Kearney, Melissa S. (2006). "<u>The Polarization of the U.S. Labor Market</u>." American Economic Review, 96(2):189-194.
 - Handout for Autor, Katz, and Kearney (2006).
- Bowles, Samuel, Herbert Gintis, and Melissa Osborne-Groves, eds. (2005). *Unequal Chances:* Family Background and Economic Success. Princeton, NJ: Princeton University Press.
 Introduction.
 - <u>Handout</u> for Introduction to *Unequal Chances...*
- Piketty, Thomas. (2000). "<u>Theories of Persistent Inequality and Intergenerational Mobility</u>." in *Handbook of Income Distribution*, A. Atkinson and F. Bourguignon, eds. Elsevier Science: Amsterdam. pp. 429-476.
 - Handout for Piketty (2000).
- Cunha, Flavio and James J. Heckman. (2009). The Marshall Lecture: "<u>The Economics and Psychology of Inequality and Human Development</u>." *Journal of the European Economic Association*, 7(2-3): 320-364.
 - Handout for Cunha and Heckman (2009).
 - <u>Handout</u> for Cunha and Heckman (2009). Presented as the Vilfredo Pareto Lecture in Economics and Social Sciences, Collegio Carlo Alberto, Torino, Italy, June 9, 2009.
- Handout: Heckman, James J. (2011). GED Handout.
- Becker, Gary S. (1993). "Nobel Lecture: The Economic Way of Looking at Behavior," Journal of Political Economy, 101(3): 385-409.
- Mazumder, Bashkar. (2005). "<u>Fortunate Sons: New Estimates of Intergenerational Mobility in the United States Using Social Security Earnings Data.</u>" Review of Economics and Statistics, 87(2):235-255.
 - Handout for Mazumder (2005).
- Bowles, Samuel and Herbert Gintis. (2002). "The Inheritance of Inequality," *Journal of Economic Perspectives*, 16(3): 3-30.
 - Handout for Bowles and Gintis (2002).
- Aaberge, Rolf, Mogstad, Magne, Peragine, Vito. (2011). "Measuring Long-Term Inequality of Opportunity." Journal of Public Economics, 95(3-4): 193-204.
 - Handout for Aaberge, Mogstad, and Peragine (2010).
- Aaberge, Rolf and Mogstad, Magne. (2011). "Robust Inequality Comparisons." *Journal of Income Inequality*, 9(3): 353-371.
 - <u>Handout</u> for Aaberge and Mogstad (2011).
- Paes de Barros, Ricardo. (2007). Lectures on Income Inequality (WinZip file).

- Meyer, Bruce D. and James X. Sullivan. (2011). "<u>Five Decades of Consumption and Income Poverty</u>," Unpublished manuscript, University of Chicago, Harris School of Public Policy.
 - Handout for Meyer and Sullivan (2011).
- Meyer, B. and J. Sullivan. (2008). "Changes in the Consumption, Income, and Well-Being of Single Mother Headed Families." *American Economic Review*, 98(5): 2221-2241.
 - Handout for Meyer and Sullivan (2008)
- Ben-Shalom, Y., R. Moffitt, and J. K. Scholz. (2011). "<u>An Assessment of the Effectivness of Anti-Poverty Policies in the United States</u>." NBER Working Paper No. 17042.
 - Handout for Ben-Shalom, Moffitt, and Scholz (2011).
- Katz, Lawrence F. and David H. Autor. (1999). "Changes in the Wage Structure and Earnings Inequality," In Orley C. Ashenfelter and David Card, eds., *Handbook of Labor Economics*, Vol. 3, Part A. Amsterdam: Elsevier. pp. 1463-1555.
 - Handout for Katz and Autor (1999).
- DeNavas-Walt, Carmen, Bernadette D. Proctor, and Jessica C. Smith. (2011). "Income, Poverty, and Health Insurance Coverage in the United States: 2010," U.S. Census Bureau, Current Population Reports, P60-239. U.S. Government Printing Office, Washington, DC, 2011.
- Lindert, Peter H. (2000). "<u>Three Centuries of Inequality in Britain and America</u>," In: Anthony B. Atkinson and François Bourguignon, eds., *Handbook of Income Distribution*, Vol. 1. Amsterdam: Elsevier. pp. 167-216.
 - Handout for Lindert (2000).
- Chew, Soo Hong and Jacob S. Sagi. (2011). "An Inequality Measure for Stochastic Allocations." Journal of Economic Theory, Available online 11 May 2011.
 - Handout for Chew and Sagi (2011).

Inequality: An Overview of the Dimensions of the Problem

- Handouts from TA Session 1, January 11, 2012:
 - Measures of Inequality
 - Econ350: Measures of Inequality
 - Inequality and Social Welfare
 - Decomposition of the Gini Coefficient
- Piketty, Thomas and Saez, Emmanuel. (2004). Updated and expanded version of "Income Inequality in the United States, 1913-2002." Originally published in: Quarterly Journal of Economics, 118(1): 1-39
 - Updated Tables and Figures, 2007
 - Updated Tables and Figures, 2010
 - Handout on Piketty and Saez (2004).
- Saez, Emmanuel. (2009). "<u>Striking it Richer: The Evolution of Top Incomes in the United States</u>
 (<u>Update with 2007 estimates</u>)". Unpublished manuscript, University of California at Berkeley,
 Department of Economics.
 - Handout for Saez (2009).
- Atkinson, Anthony B., Thomas Piketty, and Emmanuel Saez. (2009). "<u>Top Incomes in the Long Run of History</u>," NBER Working Paper No. 15408.
- Kopczuk, Wojciech, Emmanuel Saez, and Jae Song. (2009). "<u>Earnings Inequality and Mobility in the United States: Evidence from Social Security Data since 1937</u>," Under revision for *Quarterly Journal of Economics*.
 - Tables and Figures
 - Handout for Kopczuk, Saez, and Song (2009).
- Eckstein, Zvi and Nagypál, Éva. (2004). "The Evolution of U.S. Earnings Inequality: 1961-2002."
 Federal Reserve Bank of Minneapolis Quarterly Review, 28(2):10-29.

- Handout for Eckstein and Nagypál (2004).
- Aaronson, Daniel and Sullivan, Daniel. (2001). "Growth in Worker Quality." *Economic Perspectives*, Federal Reserve Bank of Chicago, Q4:53-74.
- Neckerman, Kathryn M., ed. (2004). Social Inequality. <u>Chapter 1</u> and <u>Chapter 2</u>. New York: Russell Sage.
- Borman, Geoffrey D., and Dowling, N. Maritza. (2010). "Schools and inequality: A multilevel analysis of Coleman's Equality of Educational Opportunity data." *Teachers College Record*, 112(5): 1-2.
- Mazumder, Bashkar (2008). "<u>Upward Intergenerational Economic Mobility in the United States</u>." in Getting Ahead or Losing Ground: Economic Mobility in America, J. Isaacs, I. Sawhill and R. Haskins, eds. Washington, DC: Brookings Institution.
- Mazumder, Bashkar (2008). "Trends in Intergenerational Mobility." Industrial Relations, 46(1): 1-6.
- Levine, David I. and Bashkar Mazumder. (2008). "The Growing Importance of Family: Evidence from Brothers' Earnings." Industrial Relations, 46(1): 7-21.
- Mazumder, Bashkar (2008). "Sibling similarities and economic inequality in the US." Journal of Population Economics, 21:685-701.
- Mazumder, Bashkar (2003). "Family Resources and College Enrollment ." *Economic Perspectives*, 4Q(Part 3):30-41.
- Mazumder, Bashkar and David I. Levine. (2004). "<u>The growing importance of family and community:</u> an analysis of changes in the sibling correlation in earnings." Chicago Federal Reserve Bank Working Paper No. 2003-24.
- Thomas MaCurdy. (2007). "A Practitioner's Approach to Estimating Intertemporal Relationships
 <u>Using Longitudinal Data: Lessons from Applications in Wage Dynamics</u>," In: James J. Heckman
 and Edward E. Leamer, Eds, *Handbook of Econometrics*, Volume 6, Part 1. Amsterdam: Elsevier.
 pp. 4057-4167.
 - Handout for MaCurdy (2007).
- MaCurdy, Thomas (1982). "<u>The Use of Time Series Processes to Model the Error Structure of Earnings in a Longitudinal Data Analysis</u>." *Journal of Econometrics*, 18(1): 83-114.
 - Handout for MaCurdy (1982).
- Bowlus, Audra J. and Jean-Marc Robin. (2004). "<u>Twenty Years of Rising Inequality in U.S. Lifetime</u> Labour Income Values," *Review of Economic Studies*, 71(3): 709-742.
 - Handout for Bowlus and Robin (2004).
- Bonhomme, Stéphane and Jean-Marc Robin. (2009). "<u>Assessing the Equalizing Force of Mobility Using Short Panels: France, 1990-2000</u>." Review of Economic Studies, 76(1): 63-92.
- Currie, Janet. (2011). "Inequality at Birth: Some Causes and Consequences," Unpublished manuscript, Columbia University, Department of Economics.
 - Handout for Currie (2011).
- Smeeding, Timothy M. and Jeffrey P. Thompson. (2011). "Poverty and Income Inequality over the Early (and Middle) Stages of the Great Recession," Presented at the National Academy of Sciences Committee on National Statistics Workshop, October 21, 2011.
- Burkhauser, Richard V. and Jeff Larrimore. (2011). "How Changes in Employment, Earnings, and Public Transfers Make the First Two Years of the Great Recession (2007-2009) Different from Previous Recessions & Why It Matters for Longer Term Trends." Census Brief prepared for Project US2010: http://www.s4.brown.edu/us2010.
 - Handout for Burkhauser and Larrimore (2011)
- Smeeding, Timothy M., Irwin Garfinkel, and Ronald B. Mincy. (2011). "Young Disadvantaged Men: Fathers, Families, Poverty, and Policy," Annals of the Academy of Political and Social Sciences, 635(1): 6-21.
 - Handout for Smeeding, Garfinkel, and Mincy (2011)
- Morrisson, Christian (2000). "<u>Historical Perspectives on Income Distribution: The Case of Europe</u>,"
 In: Anthony B. Atkinson and François Bourguignon, eds., *Handbook of Income Distribution*, Vol. 1.

- Amsterdam: Elsevier. pp. 217-260.
 - Handout for Morrisson (2000).
- Piketty, T. (2005). "<u>Top Income Shares in the Long Run: An Overview</u>." *Journal of the European Economic Association*, 3: 382–392.
 - Handout for Piketty (2005).
- Autor, David H., Alan Manning and Christopher L. Smith. (2010). "<u>The Contribution of the Minimum</u> <u>Wage to U.S. Wage Inequality over Three Decades: A Reassessment,</u>" Working Paper No. 16533.
 - Handout for Autor, Manning, and Smith (2010).
- Jencks, C. et al. (1972). *Inequality: Reassessment of the Effects of Family and Schooling in America*. New York: Basic Books.
- Jencks, C. (1979). Who Gets Ahead?: The Determinants of Economic Success in America. New York: Basic Books.
- Gordon, Robert J. and Dew-Becker, lan (2008). "Controversies about the Rise of American Inequality: A Survey," NBER Working Paper No. 13982.
- Piketty, T. and E. Saez. (2006). "<u>The Evolution of Top Incomes: A Historical and International Perspective</u>." *American Economic Review*, 96(2): 200-205.
- Deaton, Angus. (2011). "The Financial Crisis and the Well-Being of Americans," Presented as The Hicks Lecture, Oxford, May 16th, 2011.
- Piketty, Thomas and Emmanuel Saez. (2007). "<u>How Progressive Is the U.S. Federal Tax System? A Historical and International Perspective</u>." *Journal of Economic Perspectives*, 21(1): 3-24.
 - Handout for Piketty and Saez (2007)
- Piketty, Thomas, Emmanuel Saez, and Stefanie Stantcheva. (2011). "Optimal Taxation of Top Labor Incomes: A Tale of Three Elasticities," NBER Working Paper No. 17616.
 - Handout for Piketty, Saez, and Stantcheva (2011).
- Foster, James and Michael Wolfson. (2010). "Polarization and the Decline of the Middle Class: Canada and the U.S." Journal of Economic Inequality, 8(2): 247-273.
 - Handout for Foster and Wolfson (2010).
- Long, Jason and Joseph Ferrie. (2007). "<u>The Path to Convergence: Intergenerational Occupational Mobility in Britain and the US in Three Eras</u>," *Economic Journal*, 117(519): C61-C71.
 - Handout for Long and Ferrie (2007)
- Long, J. and J. Ferrie. (2005). "<u>A Tale of Two Labor Markets: Intergenerational Occupational Mobility in Britain and the U.S. Since 1850</u>." NBER Working Paper no. 11253.
 - Handout for Long and Ferrie (2005)

II. Alternative Approaches to Understanding the Pricing of Skills

- A. Mincer Models for Earnings and Schooling: A Basic Framework for Measurement and Interpretation
 - Lemieux, T. (2008). "<u>The Changing Nature of Wage Inequality</u>." *Journal of Population Economics*, 21: 21-48.
 - Handout for Lemieux (2008)
 - Lillard, Lee A. (1977). "Inequality: Earnings vs. Human Wealth." American Economic Review, 67(2): 42-53.
 - Handout for Lillard (1977).
- B. The Sorting of Workers and the Pricing of Skills
 - 1. Efficiency Unit Models: Wages without Sorting

- Gabaix, Xavier and Augustin Landier. (2008). "Why has CEO Pay Increased So Much?"
 Quarterly Journal of Economics, 123(1): 49-100.
- Lazear, Edward P. (2009). "FirmSpecific Human Capital: A Skill Weights Approach," Journal of Political Economy, 117(5): 914-940.
 - Handout for Lazear (2009).
- 2. Roy Models and Models of Comparative Advantage
 - Paes de Barros, Ricardo and Gabriel Ulyssea. (2011). "On the Empirical Content of the Formal-Informal Labor Market Segmentation Hypothesis," Unpublished manuscript, IPEA.
 - Yamaguchi, Shintaro. (2011). "<u>Tasks and Heterogeneous Human Capital</u>," Forthcoming in *Journal of Labor Economics*.
 - Handout for Yamaguchi (2010)
 - Autor, David H. and Michael J. Handel. (2009). "Putting Tasks to the Test: Human Capital, Job Tasks and Wages," National Bureau of Economic Research Working Paper No. 15116.
 - Almlund, Mathilde. (2010). "The Roy Model Based on Heckman and Honoré (1990)."

3. Hedonic Models and Sorting

- Heckman, James J.; Matzkin, Rosa L.; and Nesheim, Lars. (2010). "Nonparametric Identification and Estimation of Nonadditive Hedonic Models," Econometrica, 78(5): 1569-1591.
 - Handout for Heckman, Matzkin, and Nesheim (2010).
- Kanemoto, Yoshitsugu. (1988). "Hedonic Prices and the Benefits of Public Projects,"
 Econometrica, 56(4): 981-989.
 - Handout for Kanemoto (1988).
- Eeckhout, Jan and Philipp Kircher. (2011). "<u>Assortative Matching with Large Firms:</u>
 <u>Span of Control over More versus Better Workers</u>," Unpublished manuscript, London School of Economics.
 - Handout for Eeckhout and Kircher (2011) "Assortative Matching with Large Firms..."
- Eeckhout, Jan and Philipp Kircher. (2010). "Sorting and Decentralized Price Competition," Econometrica, 78(2): 539-574.
- Eeckhout, Jan and Philipp Kircher. (2011). "Sorting and Factor Intensity: Production and Unemployment across Skills," Unpublished manuscript, Department of Economics, ICREA-UPF Barcelona.
 - Handout for Eeckhout and Kircher (2011), "Sorting and Factor Intensity..."
- Sørensen, Morten. (2007). "How Smart Is Smart Money? A Two-Sided Matching Model of Venture Capital." Journal of Finance, 62(6): 2725-2762.
- 4. Assignment Models
- 5. Preferences and Traits
 - Prevoo, Tyas and Bas ter Weel. (2012). "<u>The Effect of Personality on Socio-Economic Outcomes: The Importance of Early Conscientiousness</u>," Unpublished manuscript, Maastricht University.
- C. Labor Supply and Tax Incentives
 - Thomas MaCurdy. (2007). "A Practitioner's Approach to Estimating Intertemporal Relationships Using Longitudinal Data: Lessons from Applications in Wage Dynamics," In: James J. Heckman and Edward E. Leamer, Eds, Handbook of Econometrics, Volume 6, Part 1. Amsterdam: Elsevier. pp. 4057-4167.

- Handout for MaCurdy (2007).
- Cattan, Sarah. [paper is being revised--she will send ASAP]
- D. Search Theory: Models and Evidence
 - <u>Dimensions of Tax Design: the Mirrlees Review</u>, (2010). J. Mirrlees, S. Adam, T.
 Besley, R. Blundell, S. Bond, R. Chote, M. Gammie, P. Johnson, G. Myles and J.
 Poterba (eds). Oxford, UK: Oxford University Press

E. Discrimination

- Neal, Derek A. and William R. Johnson (1996). "<u>The Role of Premarket Factors in Black-White Wage Differences</u>." *Journal of Political Economy*, 104(5): 869-895.
- Carneiro, Pedro, Heckman, James J., and Masterov, Dimitriy V. (2005). "<u>Labor Market</u>
 <u>Discrimination and Racial Differences in Premarket Factors</u>," *Journal of Lawand Economics*,
 48(1): 1-39.
 - Handout for Carneiro, Heckman, and Masterov (2005).
- Fryer, Roland G. (2011). "<u>The Importance of Segregation, Discrimination, Peer Dynamics, and Identity in Explaining Trends in the Racial Achievement Gap</u>," In: Jess Benhabib, Alberto Bisin and Matthew O. Jackson, (eds.), *Handbook of Social Economics*, Vol. 1, Chapter 21. Amsterdam: North-Holland. pp. 1165-1191.
 - Handout for Fryer (2011).
- Collins, William J. and Robert A. Margo. (2006). "<u>Historical Perspectives on Racial Differences in Schooling in the United States</u>," In: E. Hanushek and F. Welch, (eds.), Handbook of the Economics of Education, Vol. 1. Amsterdam: Elsevier: pp. 107-154.
- Altonji, Joseph G. and Rebecca M. Blank. (1999). "Race and Gender in the Labor Market," In:
 Orley Ashenfelter and David Card (eds.), Handbook of Labor Economics, Vol. 3, Amsterdam:
 Elsevier Science. pp. 3143-3259.
- Durlauf, Steven. (2010). Lecture Notes from Economics 349: Lecture 1, Lecture 2, Lecture 3
- Ulyssea, Gabriel. (2011). "<u>The formal-informal labor market segmentation hypothesis revisited</u>," Unpublished manuscript, University of Chicago, Department of Economics.
- Rosen, Sherwin. (1974). "<u>Hedonic Prices and Implicit Markets: Product Differentiation in Pure Competition</u>." *Journal of Political Economy*, 82(1):34-55.
- Hornstein, Andreas, Per Krussell, and Giovanni Violante. (2006). "<u>Frictional Wage Dispersion in Search Models: A Quantitative Assessment</u>." Federal Reserve Bank of Richmond Working Paper No. 2006-07. <u>Technical Appendix</u>.
- Kaplan, Greg, and Giovanni L. Violante. (2010). "<u>How Much Consumption Insurance beyond Self-Insurance</u>?" *American Economic Journal: Macroeconomics*, 2(4): 53-87.
- Shimer, Robert and Lones Smith. (2000). "<u>Assortative Matching and Search</u>." *Econometrica*, 68(2): 343-369.
- Lise, Jeremy, Costas Meghir, and Jean-Marc Robin. (2011). "Matching, Sorting and Wages," Unpublished manuscript, University College London.
 - Handout for Lise, Meghir, and Robin (2011).
- Lise, Jeremy. (2009). Handouts for Economics 349:
 - Topics in Quantitative Economic Analysis
 - More on Empirical Content of Life Cycle Theory
 - Creating Panel Data from a Time-series of Cross-sections
 - Household Models: Some Tests and Some Estimates
 - Hornstein, Andreas, Krusell, Per, and Violante, Gianluca. (2009). "<u>Frictional Wage Dispersion</u> in Search Models: A Quantitative Assessment"

- Income Processes/Shocks, Market Structure, and Information
- Lise, Jeremy, Meghir, Costas, and Robin, Jean-Marc. (2009). "Matching, Sorting and Wages"
- Postel-Vinay, Fabian and Robin, Jean-Marc (2002). "<u>Equilibrium Wage Dispersion with</u> <u>Worker and Employer Heterogeneity</u>"
- On-the-Job Search and Precautionary Savings: Theory and Empirics of Earnings and Wealth Inequality
- Heckman, James J. and Guilherme Sedlacek. (1985). "<u>Heterogeneity</u>, <u>Aggregation and Market Wage Functions: An Empirical Model of Self-Selection in the Labor Market</u>," *Journal of Political Economy*, 93(6):1077-1125.
 - Handout for Heckman and Sedlacek (1985).
- Handout: Tinbergen and Rosen Hedonic Models (2009).
- Shapley, L. S. and M. Shubik (1971). "<u>The Assignment Game I: The Core</u>." *International Journal of Game Theory*, 1(1): 111-130.
- MaCurdy, Thomas and Thomas Mroz. (1995). "Measuring Macroeconomic Shifts in Wages from <u>Cohort Specifications</u>." Presented at "Labor Markets," NBER, August 1989. Unpublished manuscript, Clemson University, Department of Economics.
- Card, David and Thomas Lemieux. (2001). "Can Falling Supply Explain the Rising Return to College for Younger Men? A Cohort-Based Analysis," Quarterly Journal of Economics, 116(2):705-746.
- Gosling, Amanda; Stephen Machin, and Costas Meghir. (2000). "<u>The Changing Distribution of Male Wages in the U.K.</u>," *Review of Economic Studies*, 67(4):635-666.
- Carneiro, Pedro and Sokbae Lee. (2007). "<u>Trends in Quality-Adjusted Skill Premia in the United States</u>, 1960-2000." Unpublished manuscript, University College London, Institute for Fiscal Studies. Revise and resubmit at *American Economic Review*.
- Heckman, James J. (1974) "Shadow Prices, Market Wages, and Labor Supply." Econometrica, 42(4):679-94.
 - Handout for Heckman (1974).
- Heckman, James J. and Thomas E. MaCurdy. (1982). "<u>Corrigendum on A Life Cycle Model of Female Labour Supply</u>." Review of Economic Studies, 49(4):659-660.
- Moffitt, Robert, ed. (1990). *Journal of Human Resources*, "Special Issue on Taxation and Labor Supply in Industrial Countries." 25(3).
- Blau, Francine D. and Lawrence M. Kahn. (2007). "Changes in the Labor Supply Behavior of Married Women 1980-2000." Journal of Labor Economics, 25(3):393-438.
- Juhn, Chinhui and Kevin Murphy. (1997). "Wage Inequality and Family Labor Supply." Journal of Labor Economics, Part 1, 72-97.
- Eissa, Nada and Jeffrey Liebman. (1996). "Labor Supply Response to the Earned Income Tax Credit." Quarterly Journal of Economics, 111(2):605-637.
- Meyer, Bruce D. (1995). "Natural and Quasi-Natural Experiments in Economics." Journal of Business and Economic Statistics, 13(1):151-161.
- Heckman, James J. and Thomas E. MaCurdy. (1981). "Current Theoretical and Empirical Studies of Labor Supply: Second Generation Studies," in *Research in Labor Economics*. New York: JAI Press, Inc.
- Pencavel, John. (2002). "A Cohort Analysis of the Association between Work Hours and Wages among Men." Journal of Human Resources, 37(2):251-274.
- Heckman, James J. and Thomas E. MaCurdy. (1980). "<u>A Life Cycle Model of Female Labour Supply</u>," Review of Economic Studies, 47(1):47-74.
 - Handout for Heckman and MaCurdy (1980).

- MaCurdy, Thomas E. (1981). "<u>An Empirical Model of Labor Supply in a Life-Cycle Setting</u>," *Journal of Political Economy*. 89(6):1059-1085.
 - Handout for MaCurdy (1981).
- Pencavel, John. (1986). "Labor Supply of Men: A Survey." in Handbook of Labor Economics, Vol. 1, O. Ashenfelter and R. Layard, eds. Amsterdam: Elsevier. Chapter 1, pp. 3-102.
- Heckman, James J.; Lochner, Lance J. and Todd, Petra E. (2008). "<u>Earnings Functions and Rates of Return</u>," *Journal of Human Capital*, 2(1):1-31.
- Hause, John C. (1980, May). "The fine structure of earnings and the on-the-job training hypothesis." *Econometrica* 48 (4): 1013-1029.
- Gould, Eric D. (2002). "Rising Wage Inequality, Comparative Advantage, and the Growing Importance of General Skills in the United States." Journal of Labor Economics, 20(1): 105-147.
 Handout for Gould (2002).
- Handout: Hedonic Models and Public Policy (2003).
- Kniesner, Thomas J. and John D. Leeth. (1988). "Simulating Hedonic Labor Market Models:
 Computational Issues and Policy Applications," International Economic Review, 29(4): 755-789.

 Handout for Kniesner and Leeth (1988).
- Blundell, Richard and Thomas MaCurdy. (1999). "<u>Labor Supply: A Review of Alternative</u>
 <u>Approaches</u>," in O. Ashenfelter and D. Card, eds. *Handbook of Labor Economics*, Volume 3A.
 Amsterdam: Elsevier. pp. 1559-1695.
- Eeckhout, Jan and Philipp Kircher. (2011). "<u>Identifying Sorting: In Theory</u>," *Review of Economic Studies*, 78(3): 872-906.
 - Handout for Eeckhout and Kircher (2009).
- Thomas MaCurdy. (2007). "A Practitioner's Approach to Estimating Intertemporal Relationships
 <u>Using Longitudinal Data: Lessons from Applications in Wage Dynamics</u>," In: James J. Heckman
 and Edward E. Leamer, Eds, *Handbook of Econometrics*, Volume 6, Part 1. Amsterdam: Elsevier.
 pp. 4057-4167.
 - Handout for MaCurdy (2007).
- Osberg, L. and T. Smeeding. (2006). "<u>"Fair" Inequality? Attitudes toward Pay Differentials: The United States in Comparative Perspective</u>." *American Sociological Review*, 71: 450-473.
 - Handout for Osberg and Smeeding (2006)
- Black, Sandra E. and Kenneth L. Sokoloff. (2006). "Long-Term Trends in Schooling: The Rise and Decline (?) of Public Education in the United States," In: E. Hanushek and F. Welch, (eds.), Handbook of the Economics of Education, Vol. 1. Amsterdam: Elsevier. pp. 69-105.
- Betts, Julian R. (2011). "<u>The Economics of Tracking in Education</u>," In: Eric A. Hanushek, Stephen Machin and Ludger Woessmann, (eds.), *Handbook of the Economics of Education*, Vo. 3. Amsterdam: Elsevier. pp. 341-381.
- Bound, John and Sarah Turner (2011). "<u>Dropouts and Diplomas: The Divergence in Collegiate</u>
 <u>Outcomes</u>," In: Eric A. Hanushek, Stephen Machin and Ludger Woessmann, (eds.), *Handbook of the Economics of Education*, Vol. 4. Amsterdam: Elsevier. pp. 573-613.
 - Handout for Bound and Turner (2011).
- Card, David and John DiNardo. (2002). "Skill-Biased Technological Change and Rising Wage Inequality: Some Problems and Puzzles." Journal of Labor Economics, 20(4): 733-783.
- Lemieux, T. (2006). "Post-secondary Education and Increasing Wage Inequality," American Economic Review, 96(2): 1-23.

III. Determinants of Education, the Returns to Education, and Their Contributions to Inequality

Heckman, James J. and LaFontaine, Paul A. (2006). "Bias-Corrected Estimates of GED Returns."

Journal of Labor Economics, 24(3):661-700.

- Handout for Heckman and LaFontaine, (2006).
- Heckman, James J. (2007). "The GED: Evidence on Noncognitive Skills."
- Heckman, James J. (2008). "<u>America's Growing High School Dropout Rate: Evidence and Interpretations</u>.
- Heckman, James J. and Lafontaine, Paul A. (2010). "<u>The American High School Graduation Rate:</u> <u>Trends and Levels</u>." Review of Economics and Statistics, 92(2): 244–262.
 - Handout for Heckman and LaFontaine (2010)
- Heckman, James J.; Lochner, Lance J. and Todd, Petra E. (2008). "<u>Earnings Functions and Rates of Return</u>," *Journal of Human Capital*, 2(1):1-31.
- Cameron, Stephen V. and Taber, Christopher. (2004). "<u>Estimation of Educational Borrowing</u>
 <u>Constraints Using Returns to Schooling</u>," *Journal of Political Economy*, 112(1, Part 1):132-182.
 - Handout for Cameron and Taber (2004)
- Barón, Juan D., Deborah A. Cobb-Clark, and Nisvan Erkal. (2008). "<u>Cultural Transmission of Work-Welfare Attitudes and the Intergenerational Correlation in Welfare Receipt</u>." IZA Discussion Paper No. 3904.
- Goldin, Claudia and Lawrence F. Katz. (2008). *The Race between Education and Technology*. Cambridge, MA: Harvard University Press.
- Card, David. (2001). "<u>Estimating the Return of Schooling: Progress on Some Persistent Econometric Problems</u>." *Econometrica*, 69(5):1127-1160.
- Heckman, James J., Sergio Urzua, and Edward J. Vytlacil. (2006). "<u>Understanding Instrumental Variables in Models with Essential Heterogeneity</u>," *Review of Economics and Statistics*, 88(3): 389-432.
 - Handout for Heckman, Urzua, and Vytlacil (2006).
- Autor, David. (2010). "<u>U.S. Labor Market Challenges over the Longer Term</u>," Unpubished manuscript, MIT Department of Economics.
- Aos, Steve, Stephanie Lee, Elizabeth Drake, Annie Pennucci, Tali Klima, Marna Miller, Laurie Anderson, Jim Mayfield, and Mason Burley. (2011). "Return on investment: Evidence-based options to improve statewide outcomes," Report No. 11-07-1201, Washington State Institute for Public Policy, Olympia, WA. Technical Appendix 1, Technical Appendix 2.
- Carneiro, Pedro and Sokbae Lee. (2009). "<u>Estimating Distributions of Potential Outcomes Using Local Instrumental Variables with an Application to Changes in College Enrollment and Wage Inequality</u>." *Journal of Econometrics*, 149(2): 191-208.
 - Handout for Carneiro and Lee (2009).
- Neal, Derek and Sherwin Rosen. (2000). "<u>Theories of the Distribution of Earnings</u>," In: Anthony B. Atkinson and François Bourguignon, (eds.), *Handbook of Income Distribution*, Volume 1. Amsterdam: Elsevier. pp. 379-427.
 - Handout for Neal and Rosen (2000).
- Fu, Chao. (2011). "<u>Training, Search and Wage Dispersion</u>," *Review of Economic Dynamics*, 14(4): 650-666.
 - Handout for Fu (2011).
- Hu, Luojia and Christopher Taber. (2011). "Displacement, Asymmetric Information, and Heterogeneous Human Capital," *Journal of Labor Economics*, 29(1): 113-152.
- Kuruscu, Burhanettin. (2006). "<u>Training and Lifetime Income</u>," *American Economic Review*, 96(3): 832-846.
 - Handout for Kuruscu (2006).
- Heckman, James J. and Salvador Navarro. (2007). "<u>Dynamic Discrete Choice and Dynamic Treatment Effects</u>," *Journal of Econometrics*, 136(2): 341-396.
- From Lochner and Monge-Naranjo, forthcoming Annual Reviews.
 - Aiyagari, S. Rao, Jeremy Greenwood, and Ananth Seshadri. (2002). "Efficient Investment in

- Children," Journal of Economic Theory, 102(2): 290-321.
- Albuquerque, Rui, and Hugo A. Hopenhayn. (2004). "Optimal Lending Contracts and Firm Dynamics," Review of Economic Studies, 71(2): 285-315.
- Andolfatto, David, and Martin Gervais. (2006). "<u>Human Capital Investment and Debt Constraints</u>," Review of Economic Dynamics, 9(1): 52-67.
- Andreoni, James. (1989). "Giving with Impure Altruism: Applications to Charity and Ricardian Equivalence," Journal of Political Economy, 97(6): 1447-1458.
- Belley, Philippe, Marc Frenette, and Lance Lochner. (2011) "Post-Secondary Attendance by Parental Income in the U.S. and Canada: What Role for Financial Aid Policy?" NBER Working Paper No. 17218.
- Belley, Philippe, and Lance Lochner. (2007). "<u>The Changing Role of Family Income and Ability in Determining Educational Achievement</u>," *Journal of Human Capital*, 1(1): 37-89.
- Boldrin, Michele, and Ana Montes. (2005). "<u>The Intergenerational State: Education and Pensions</u>." *Review of Economic Studies*, 72(3): 651-664.
- Brown, Meta, J.K. Scholz, and Ananth Seshadri. (2011). "A New Test of Borrowing Constraints for Education." Forthcoming, Review of Economic Studies.
- Caucutt, E., and K. Kumar. (2003). "<u>Higher Education Subsidies and Heterogeneity: A Dynamic Analysis</u>." *Journal of Economic Dynamics and Control*, 27 (8): 1459–1502.
- Caucutt, Elizabeth, and Lance J. Lochner. (2006). "Borrowing Constraints on Families with <u>Young Children</u>." In *Innovation in Education*, Cleveland: Federal Reserve Bank of Cleveland, 39–48.
- Caucutt, Elizabeth, and Lance J. Lochner. (2011). "<u>Early and Late Human Capital Investments</u>.
 <u>Borrowing Constraints</u>, and the Family." University of Western Ontario, Working Paper.
- Chatterjee, Satyajit, Dean Corbae, Makoto Nakajima, and Jose-Victor Rios- Rull. (2007). "A Quantitative Theory of Unsecured Consumer Credit with Risk of Default." Econometrica 75(6): 1525–1589.
- Chatterjee, Satyajit, and Felicia Ionescu. (2010). "Insuring Student Loans Against the Risk of College Failure." Working Paper No. 10-31, Federal Reserve Bank of Philadelphia.
- Cordoba, Juan C., and Marla Ripoll. 2011. "What Explains Schooling Differences Across <u>Countries?</u>" Human Capital and Economic Opportunity Working Group Working Paper No. 2011-028.
- Dahl, Gordon, and Lance Lochner. (2011). "<u>The Impact of Family Income On Child Achievement: Evidence from the Earned Income Tax Credit</u>." Forthcoming, *American Economic Review*.
- Duncan, Greg, Wei-Jun Yeung, Jeanne Brooks-Gunn, and Judith Smith. (1998). "How Much Does Childhood Poverty Affect the Life Chances of Children?" American Sociological Review, 63(3): 406–423.
- Duncan, Greg, Pamela Morris, and Chris Rodrigues. (2011). "<u>Does Money Really Matter?</u>
 <u>Estimating Impacts of Family Income on Young Children's Achievement with Data from Random-Assignment Experiments</u>." *Developmental Psychology*, 47(5): 1263-1279.
- Galor, Oded, and Joseph Zeira. (1993). "Income Distribution and Macroeconomics." Review of Economic Studies, 60(1): 35–52.
- Hanushek, Eric A., Charles K. Y. Leung, and Kuzey Yilmaz. (2003). "Redistribution through <u>Education and Other Transfer Mechanisms</u>." Journal of Monetary Economics, 50(8): 1719-1750.
- o lonescu, Felicia. (2008). "Consolidation of Student Loan Repayments and Default Incentives." The B.E. Journal of Macroeconomics, 8(1): Article 22.
- o lonescu, Felicia. (2009). "<u>The Federal Student Loan Program: Quantitative implications for college enrollment and default rates</u>." *Review of Economic Dynamics*, 12(1): 205-231.
- o lonescu, Felicia. (2011). "Risky Human Capital and Alternative Bankruptcy Regimes for

- Student Loans." Journal of Human Capital, 5(2): 153-206.
- Johnson, Matthew. (2010). "Borrowing Constraints, College Enrolment, and Delayed Entry."
 Human Capital and Economic Opportunity Working Group, Working Paper No. 2011-006.
- Kinsler, Josh, and Ronni Pavan. (2010). "College Quality, Educational Attainment, and Family Income." University of Rochester, Working Paper.
- Krebs, Tom. (2003). "<u>Human Capital Risk and Economic Growth</u>." Quarterly Journal of Economics, 118(2): 709-744.
- Løken, Katrine. (2010). "<u>Family Income and Children's Education: Using the Norwegian Oil</u>
 <u>Boom as a Natural Experiment</u>." *Labour Economics*, 17(1): 118-129.
- Løken, Katrine, Magne Mogstad, and Matthew Wiswall. (2010). "What Linear Estimators Miss: <u>Re-Examining the Effects of Family Income on Child Outcomes</u>." IZA Discussion Paper, No. 4971.
- Lovenheim, Michael F. (2011). "<u>The Effect of Liquid Housing Wealth on College Enrollment</u>."
 Journal of Labor Economics, 29(4): 741-771.
- Lovenheim, Michael F., and C. Lockwood Reynolds. (2011). "Changes in Postsecondary Choices by Ability and Income: Evidence from the National Longitudinal Surveys of Youth." Journal of Human Capital, 5(1): 70-109.
- Manuelli, Rodolfo E., and Ananth Seshadri. (2010). "<u>Human Capital and the Wealth of Nations</u>." Unpublished manuscript, University of Wisconsin.
- Milligan, Kevin, and Mark Stabile. (2011). "<u>Do Child Tax Benefits Affect the Well-Being of Children? Evidence from Canadian Child Benefit Expansions</u>." American Economic Journal: Economic Policy, 3(3): 175-205.
- Restuccia, Diego, and Carlos Urrutia. (2004). "Intergenerational Persistence of Earnings: The Role of Early and College Education." American Economic Review, 94(5): 1354-1378.

IV. Consumption, Wealth, and Earnings Dynamics: Integrating Macro and Micro Models and Evidence

• Caballero, Ricardo J. (1990). "Consumption Puzzles and Precautionary Savings," Journal of Monetary Economics, 25(1): 113-136.

V. Models of Post-School Investment and Wage Growth

- Heckman, James J. (1976). "<u>A Life-Cycle Model of Earnings, Learning, and Consumption</u>," *Journal of Political Economy*, 84(4, Part 2: Essays in Labor Economics in Honor of H. Gregg Lewis): S11-S44.
- Heckman, James J., Robert LaLonde and Jeffrey Smith. (1999). "<u>The Economics and Econometrics of Active Labor Market Programs</u>", in O. Ashenfelter and D. Card (eds.), *Handbook of Labor Economics*, Amsterdam: Elsevier. pp. 1865-2097.
- Guvenen, Fatih. (2007). "Learning Your Earning: Are Labor Income Shocks Really Very Persistent?" American Economic Review, 97(3): 687-712.
- Gladden, Tricia and Christopher Taber. (2009). "<u>Turnover and Wage Growth for Low Skilled Young Men</u>," Unpublished manuscript, Department of Economics, University of Wisconsin--Madison.
- Gladden, Tricia and Christopher Taber. (2009). "<u>The Relationship between Wage Growth and Wage Levels</u>," *Journal of Applied Econometrics*, 24(6): 914-932.
- Rosen, Sherwin. (1972). "Learning and Experience in the Labor Market." *Journal of Human Resources*, 7(3): 326-342.

VI. Uncertainty, Learning, and Wage Growth

- Heckman, James J. and Sergio Urzua. (2010). "<u>The Option Value (Continuation Value) of Educational Choices And the Rate of Return to Educational Choices (Option Values and Continuation Values)</u>." Presented at the Cowles Workshop, June 2008.
- Keane, Michael and Kenneth Wolpin. (2009). "Empirical Applications of Discrete Choice Dynamic Programming Models." Review of Economic Dynamics, 12(1):1-22.
- Cameron, Stephen V. and James J. Heckman. (1998). "<u>Life Cycle Schooling and Dynamic Selection Bias: Models and Evidence for Five Cohorts of American Males</u>." *Journal of Political Economy* 106(2):262-333.
 - Handout for Cameron and Heckman (1998).
- Cameron, Stephen V. and James J. Heckman. (2001). "<u>The Dynamics of Educational Attainment for Black, Hispanic, and White Males</u>,"
 Journal of Political Economy 109(3):455-499.
 - Handout for Cameron and Heckman (2001).
- Farber, Henry S. and Robert Gibbons. (1996). "Learning and Wage Dynamics Learning and Wage Dynamics." Quarterly Journal of Economics, 111(4):1007-1047.
 - Handout for Farber and Gibbons (1996)
- Jovanovic, Boyan. (1979). "<u>Job Matching and the Theory of Turnover</u>." *Journal of Political Economy*, 87(5, Part 1):972-990.
- Flinn, Christopher and James J. Heckman. (1982). "New Methods For Analyzing Structural Models of Labor Force Dynamics." *Journal of Econometrics*, 18(1):115-168.
 - Handout for Flinn and Heckman (1982).
- Gibbons, Robert, Lawrence F. Katz, Thomas Lemieux, and Daniel Parent. (2005). "Comparative <u>Advantage, Learning, and Sectoral Wage Determination</u>," *Journal of Labor Economics*, 23(4): 681-724.
 - Handout for Gibbons, Katz, Lemieux, and Parent (2005).
- Cunha and Heckman (2009) Handouts:
 - Handout: "<u>The Evolution of Inequality, Heterogeneity, and Uncertainty in Labor Earnings in the U.S. Economy</u>," October, 2009.
 - Handout: "Inequality and Uncertainty: The Evolution of Labor Earnings Risk in the U.S. Economy"
 - Handout of Web Appendix for Cunha and Heckman (2009).
- Yamaguchi, Shintaro. (2010). "Career Progression and Comparative Advantage," Labour Economics, 17(4): 679-689.
 - Handout for Yamaguchi (2010)
- Pavan, Ronni. (2011). "Career Choice and Wage Growth," Journal of Labor Economics, 29(3): 549-587.

VII. Empirical General Equilibrium Models

- Keane, Michael and Matthew Johnson. (2011). "A Dynamic Equilibrium Model of the U.S. Wage Structure, 1968-1996," Forthcoming in *Journal of Labor Economics*. Appendix.
 - Handout for Keane and Johnson (2011).
- Lee, Donghoon and Kenneth I. Wolpin. (2006). "Intersectoral Labor Mobility and the Growth of the Service Sector." *Econometrica*, 74(1):1-46.

VIII. Family Influence: Genes, Environments, and Intergenerational Transmission Mechanisms

Ginther, Donna K. and Robert A. Pollak (2004). "<u>Family Structure and Children's Educational Outcomes: Blended Families, Stylized Facts, and Descriptive Regressions</u>," *Demography*,

- 41(4):671-696.
- Taubman, Paul, ed. (1977). *Kinometrics: Determinants of Socioeconomic Success within and between Families*. New York: Elsevier North-Holland.
- Knudsen, Eric I., Heckman, James J., Cameron, Judy and Shonkoff,
 Jack P. (2006). "Economic, Neurobiological, and Behavioral Perspectives on Building America's
 Future workforce," Proceedings of the National Academy of Sciences. 103(27):10155-10162.
- Cunha, Flavio, Heckman, James J., Lochner, Lance J. and Masterov, Dimitriy V. (2006). "
 Interpreting the Evidence on Life Cycle Skill Formation," in Handbook of the Economics of Education, edited by E. Hanushek and F. Welch. Amsterdam: North Holland. pp. 698-812.
 - Handout for Cunha, Heckman, Lochner and Masterov (2006).[20 mb!]
- Behrman, Jere R. and Mark R. Rosenzweig. (2002). "<u>Does Increasing Women's Schooling Raise</u> the Schooling of the Next Generation?" *American Economic Review*, 92(1):323-334.
- Behrman, Jere R. and Mark R. Rosenzweig. (2005). "<u>Does Increasing Women's Schooling Raise the Schooling of the Next Generation? Reply</u>" *American Economic Review*, 95(5):1745-1751.
- Engle, Patrice L., Maureen M Black, Jere R Behrman, Meena Cabral de Mello, Paul J Gertler, Lydia Kapiriri, Reynaldo Martorell, Mary Eming Young and the International Child Development Steering Group. (2007). "Strategies to Avoid the Loss of Developmental Potential in More Than 200 Million Children in the Developing World." The Lancet, 369(9557):229-242.
- Behrman, Jere R., John Hoddinott, John A. Maluccio, Erica Soler-Hampejsek, Emily L. Behrman, Reynaldo Martorell, Manuel Ramírez-Zea, and Aryeh D. Steind. (2008). "What Determines Adult Cognitive Skills? Impacts of Pre-Schooling, Schooling and Post-Schooling Experiences in Guatemala." Unpublished manuscript, University of Pennsylvania, Department of Economics.
 - Handout for Behrman, Hoddinott, Maluccio, Soler-Hampejsek, Behrman, Martorell, Ramírez-Zea, and Steind (2008).
- Loughran, David S., Ashlesha Datar and M. Rebecca Kilburn. (2008). "The Response of Household Parental Investment to Child Endowments." Review of the Economics of the Household, 6(3):223-242.
- Adda, Jérôme; Björklund, Anders; and Holmlund, Helena. (2011). "<u>The Role of Mothers and Fathers in Providing Skills: Evidence from Parental Deaths</u>." IZA Discussion Paper No. 5425.
- Holmlund, Helena, Mikael Lindahl, and Erik Plug. (2011). "<u>The Causal Effect of Parents' Schooling on Children's Schooling: A Comparison of Estimation Methods</u>." *Journal of Economic Literature*, 49(3): 615-651.
 - Handout for Holmlund, Lindahl, and Plug (2011).
- Björklund, Anders and Jäntti, Markus. (2009). "Intergenerational income mobility and the role of family background," in *Oxford Handbook of Economic Inequality*, W. Salverda, B. Nolan and T. Smeeding, eds. Oxford, UK: Oxford University Press. pp. 491-521.
 - Handout for Björklund and Jäntti (2009).
- Björklund, Anders, Jäntti, Markus, and Solon, Gary. (2005). "Influences of Nature and Nurture on Earnings Variation: A Report on a Study of Various Sibling Types in Sweden," in Unequal Chances: Family Background and Economic Success, S. Bowles, H. Gintis, and M. Osborne, eds. New York: Russell Sage Foundation. pp. 145-164.
- Handouts:
 - Heckman, James J. (2008), "Noncognitive Skills: Acquisition and Economic Consequences."
 - Heckman, James J. (2010). "The Technology of Skill Formation.
 - Heckman, James J. (2010). <u>"The Economics, Psychology, and Biology of Early Childhood</u>
 <u>Development."</u> Presented at the American Association for Advancement of Science Annual
 Meeting, "Bridging Science and Society," San Diego Convention Center, San Diego CA.
 February 19, 2010.
 - Handout for Heckman (2008), Marshall Lecture.
- Filippin, Antonio and Marco Paccagnella. (2009). "Family Background, Self-Confidence and

- Economic Outcomes." Unpublished manuscript, University of Milan.
 - Handout for Filippin and Paccagnella (2009)
- Weinschenk, Philipp. (2010). "<u>The Technology of Skill Formation and Hidden Information</u>," Unpublished manuscript, Bonn Graduate School of Economics.
 - Handout for Weinschenk (2009).
- Björklund, Anders and Jäntti, Markus. (1997). "Intergenerational Income Mobility in Sweden Compared to the United States," American Economic Review, 87(5): 1009-1018.
- Brocas, Isabelle, and Carrillo, John D. (2009). "From Perception to Action: An Economic Model of Brain Processes," CEPR Discussion Paper No. 6535.
- Fryer Jr., Roland G. (2011). "Racial Inequality in the 21st Century: The Declining Significance of Discrimination," In Orley Ashenfelter and David Card, eds., Handbook of Labor Economics, Vol. 4B. Amsterdam: Elsevier. pp. 855-971.
 - Handout for Fryer (2011).
- Goldberger, Arthur S. (1979). "<u>Heritability</u>," *Economica*, New Series, 46(184, Special Issue on the Economics of Inheritance): 327-347.
 - Handout for Goldberger (1979).
- Goldberger, Arthur S. and Leon J. Kamin. (1998). "Behavior-Genetic Modeling of Twins: A Deconstruction." University of Wisconsin Working Paper No. 9824. Part II, and Part III.
 - Handout for Goldberger and Kamin (1998)
- Conlisk, John. (1974). "Can Equalization of Opportunity Reduce Social Mobility?" American Economic Review, 64(1): 80-90.
 - Handout for Conlisk (1974)
- Conlisk, John. (1984). "Four Invalid Propositions about Equality, Efficiency, and Intergenerational Transfers through Schooling," Journal of Human Resources, 19(1): 3-21.
 - Handout for Conlisk (1984)
- Davies, James B., Anthony F. Shorrocks. (2000). "<u>The Distribution of Wealth</u>," In: Anthony B. Atkinson and François Bourguignon, eds., *Handbook of Income Distribution*, Amsterdam: Elsevier. pp. 605-675.
 - Handout for Davies and Shorrocks (2000).
- Gittleman, M. and E. Wolff. (2004). "Racial Differences in Patterns of Wealth Accumulation." *Journal of Human Resources*, 39: 193-227.
 - Handout for Gittleman and Wolff (2004)
- Gottschalk, P. and T. Smeeding. (1997). "Cross-National Comparisons of Earnings and Income Inequality." *Journal of Economic Literature*, 35: 633-687.
 - Handout for Gottschalk and Smeeding (1997)
- Gottschalk, Peter and Timothy M. Smeeding. (2000). "<u>Empirical Evidence on Income Inequality in Industrialized Countries</u>," In: Anthony B. Atkinson and François Bourguignon, eds., *Handbook of Income Distribution*, Vol. 1. Amsterdam: Elsevier. pp. 261-307.
 - Handout for Gottschalk and Smeeding (2000)
- McLanahan, Sara (2004). "<u>Diverging Destinies: How Children Fare Under the Second Demographic Transition</u>," *Demography*, 41(4):607-627.
 - Handout for McLanahan (2004).
- Chiappori, Pierre-André. (2012). "<u>Equilibrium Models of the Marriage Market: Theory and Some Applications</u>." Presented at "Celebrating the 30th Anniversary of the Publication of Gary Becker's *Treatise on the Family*." SABE-AEA, January 2012.

IX. Developmental Origins of Health (Optional Topic)

• Wagstaff, Adam. (1986). "<u>The Demand for Health: Some New Empirical Evidence</u>," *Journal of Health Economics*, 5(3): 195–233.

- Handout for Wagstaff (1986).
- Handout: Chen, Alice. (2010). "Health as Human Capital: Synthesis and Extensions."
- Handout: Kautz, Tim and Biroli, Pietro. (2011). "Grossman Model of Health Demand."
- Maluccio, John A., John Hoddinott, Jere R. Behrman, Reynaldo Martorell, Agnes R. Quisumbing, and Aryeh D. Stein. (2009). "<u>The Impact of Improving Nutrition During Early Childhood on Education Among Guatemalan Adults</u>," *Economic Journal*, 119(537): 734-763.
 - Handout for Maluccio, Hoddinott, Behrman, Martorell, Quisumbing, and Stein (2009).
- Barker, D.J.P. (1995). "<u>Fetal Origins of Coronary Heart Disease</u>." *British Medical Journal*, 311(6998):171-174.
- Behrman, Jere R. and Mark R. Rosenzweig. (2004). "Returns to Birthweight", Review of Economics and Statistics, 86(2), 586-601.
- Black, Sandra E., Paul J. Devereux and Kjell G. Salvanes. (2007). "Small Family, Smart Family? Family Size and the IQ Scores of Young Men," NBER Working Paper 13336.
 - Handout for Black, Devereux, and Salvanes, (2007), WP 13336.
- Case, Anne, Angela Fertig and Christina Paxson. (2005). "The Lasting Impact of Childhood Health and Circumstance." Journal of Health Economics, 24(2):365–389.
- Case, Anne and Christina Paxson. (2002). "Parental Behavior And Child Health," Health Affairs, 21(2): 164-178.
- Case, Anne, Darren Lubotsky, and Christina Paxson. (2002). "<u>Economic Status and Health in Childhood: The Origins of the Gradient</u>," *American Economic Review*, 92(5): 1308-1334.
- World Health Organization. (2006). "Promoting optimal fetal development: Report of a technical consultation," Geneva, Switzerland: World Health Organization.
- Extract from: Conti, Gabriella, Philipp Eisenhauer, James J. Heckman, Hedibert Lopes, and Remi Piatek. (2010). "Education and Health," Presented at Emory University August 28th, 2009.
- Papers by Robert W. Fogel
 - Fogel, Robert W. (1994). "<u>Economic Growth, Population Theory, and Physiology: The Bearing of Long-Term Processes on the Making of Economic Policy</u>," *American Economic Review*, 84(3): 369-395.
 - Fogel, Robert W. (2003). "Secular Trends in Physiological Capital: Implications for Equity in Health Care," Perspectives in Biology and Medicine, 46(3): S24-S38.
 - Fogel, Robert W. (2004). "Changes in the Disparities in Chronic Disease During the Course of the Twentieth Century," NBER Working Paper No. 10311.
 - Fogel, Robert W. (2004). "<u>Health, Nutrition, and Economic Growth,</u>" *Economic Development and Cultural Change*, 52(3): 643-658.
 - Fogel, Robert W. (2005). "Changes in the Physiology of Aging during the Twentieth Century," NBER Working Paper No. 11233.
 - Fogel, Robert W. (2008). "Forecasting the Cost of U.S. Health Care in 2040." NBER Working Paper No. 14361.
 - Fogel, Robert W. and Chulhee Lee. (2003). "Who Gets Health Care?" NBER Working Paper 9870.
- Brooks-Gunn, Jeanne; Kato Klebanov, Pam; Liaw, Fong-ruey; and Spiker, Donna. (1993).
 "Enhancing the Development of Low-Birthweight, Premature Infants: Changes in Cognition and Behavior over the First Three Years," Child Development, 64(3): 736-753.
- Kato Klebanov, Pamela; Brooks-Gunn, Jeanne; McCarton, Cecelia; and McCormick, Marie C. (1998). "The Contribution of Neighborhood and Family Income to Developmental Test Scores over the First Three Years of Life," Child Development, 69(5): 1420-1436.
- Almond, Douglas, Kenneth Y. Chay and David S. Lee. (2005). "<u>The Costs of Low Birth Weight.</u>" Quarterly Journal of Economics, 120(3):1031-1083.
 - Handout for Almond, Chay, and Lee (2005).
- Bleakley, Hoyt. (2010). "Health, Human Capital, and Development," Annual Review of Economics,

- 2(1): 283-310.
 - Handout for Bleakley (2009).
- Moilanen, Kristin L., Shaw, Daniel S., Dishion, Thomas J., Gardner, Frances, and Wilson, Melvin. (2010). "Predictors of Longitudinal Growth in Inhibitory Control in Early Childhood," Social Development, 19(2): 1467-9507.
- Bernal, Raquel, and Keane, Michael P. (2011). "Child Care Choices and Children's Cognitive Achievement: The Case of Single Mothers," Journal of Labor Economics, 29(3): 459-512.
 - Handout for Bernal and Keane (2011).
- Bernal, Raquel. (2008). "<u>The Effect of Maternal Employment and Child Care on Children's Cognitive Development</u>," *International Economic Review*, 49(4): 1173-1209.
- Amador, Diego and Raquel Bernal. (2011). "<u>Cohabitation vs. Marriage: The Effects on Children's Well-Being</u>." Unpublished manuscript, Department of Economics, Universidad de los Andes, Colombia.
- Bernal, Raquel, and Keane, Michael P. (2010). "Quasi-Structural Estimation of a Model of Childcare Choices and Child Cognitive Ability Production," *Journal of Econometrics*, 156(1):164-189.
- Figure: Bernal, Raquel. (2010). "Peabody Gradient."
- Tartari, Melissa. (2010). "<u>Divorce and the Cognitive Achievement of Children</u>," Unpublished manuscript, Yale University, Department of Economics.

Genes and Environments

- Handout: Heckman, James J. (2006). "Heritability"
- Goldberger, Arthur S. (1979). "<u>Heritability</u>," *Economica*, New Series, 46(184, Special Issue on the Economics of Inheritance): 327-347.
 - Handout for Goldberger (1979).
- Rutter, Michael. (2006). *Genes and Behavior: Nature-Nurture Interplay Explained*. Oxford, UK: Blackwell Publishers.
- Goldberger, Arthur S. (1978). "Pitfalls in the Resolution of IQ Inheritance," in *Genetic Epidemiology*, N. Morton and C. Chung, eds. New York: Academic Press. pp. 195-215.
- Goldberger, Arthur S. (2002). "<u>Structural Equation Models in Human Behavior Genetics</u>." in *Identification and Inference for Econometric Models: Essays in Honor of Thomas Rothenberg*, D.W.K. Andrews, J. H. Stock and T. J. Rothenberg, editors. New York: Cambridge University Press. pp. 11-26.
 - Handout for Goldberger (2002).
- Reiss, David. (2001). "<u>The Repertoire of Distinctive Genetic Influences on Mothering and Fathering:</u>
 <u>Exploring the Role of a Relationship Code in Genetic Expression</u>," in *Dynamics of Parenting*,
 J.R.M. Gerris, ed. Garant: Apeldoorn, The Netherlands. pp. 53-86.
 - Handout for Reiss (2001).
- Feldman, Marcus W.; Sarah R. Otto, and Freddy B. Christiansen. (2000). "Genes. Culture, and Inequality," in Meritocracy and Economic Inequality, K. Arrow, S. Bowles, and S. Durlauf, eds. Princeton, NJ: Princeton University Press.
- Kamin, Leon J. and Arthur S. Goldberger (2002). "<u>Twin Studies in Behavioral Research: A Skeptical View</u>." *Theoretical Population Biology*, 61(1): 83-95.
- Goldberger, Arthur S. and Leon J. Kamin. (1998). "Behavior-Genetic Modeling of Twins: A Deconstruction." University of Wisconsin Working Paper No. 9824. Part I, Part II, and Part III.
- Marceau, Kristine, and Jenae M. Neiderhiser. (2011). "Influences of Gene Environment Interaction
 and Correlation on Disruptive Behavior in the Family Context," Forthcoming in Advances in Clinical
 Child and Adolescent Psychopathology Volume I: Disruptive Behavior.
- Neiderhiser, Jenae M. and Paul Lichtenstein. (2008). "<u>The Twin and Offspring Study in Sweden:</u>
 <u>Advancing Our Understanding of Genotype-Environment Interplay by Studying Twins and Their</u>

- Families." Acta Psycholgica Sinica, 40(10): 1116-1123.
- Carja, Oana and Marcus W. Feldman. (2011). "<u>An Equilibrium for Phenotypic Variance in Fluctuating Environments Owing to Epigenetics</u>." *Journal of The Royal Society Interface*. Online: http://rsif.royalsocietypublishing.org/content/early/2011/08/16/rsif.2011.0390.full.pdf+html.
- McGue, Matt and Thomas J. Bouchard. (1984). "Adjustment of Twin Data for the Effects of Age and Sex." Behavior Genetics, 14(4): 325-343.
- McGue, Matt and Kaare Christensen. (2003). "<u>The Heritability of Depression Symptoms in Elderly Danish Twins: Occasion-Specific Versus General Effects</u>." *Behavior Genetics*, 33(2): 83-93.
- McClearn, Gerald E., Boo Johansson, Stig Berg, Nancy L. Pedersen, Frank Ahern, Stephen A. Petrill and Robert Plomin. (1997). "Substantial Genetic Influence on Cognitive Abilities in Twins 80 or More Years Old." Science, 276(5318): 1560-1563.
- McEwen, Bruce S. (2007). "Physiology and Neurobiology of Stress and Adaptation: Central Role of the Brain." Physiological Reviews, 87(July):873-904.
- Scarr, Sandra. (2001). "Individuality in Parenting Behavior and Children's Development," in Dynamics of Parenting, J.R.M. Gerris, ed. Garant: Apeldoorn, The Netherlands. pp. 87-99.
 Handout for Scarr (2001).
- Akabyashi, Hideo. (2006). "An Equilibrium Model of Child Maltreatment." *Journal of Economic Dynamics and Control* 30(6): 993–1025.
- Baumrind, Diana (1968). <u>Authoritarian vs. Authoritative Parental Control</u>. *Adolescence* 3(Fall): 255–272.
- Becker, Gary (1974). "A Theory of Social Interactions." Journal of Political Economy 82(6): 1063–1094.
- Bergstrom, Theodore. (1989). "<u>A Fresh Look at the Rotten Kid Theorem—and Other Household Mysteries</u>." *Journal of Political Economy* 97(5), 1138–1159.
- Eckstein, Zvi and Kenneth I. Wolpin. (1999). "Why Youths Drop Out of High School: The Impact of Preferences, Opportunities, and Abilities," Econometrica, 67(6): 1295-1339.
- Lizzeri, Alessandro and Marciano Siniscalchi. (2008). "Parental Guidance and Supervised Learning." Quarterly Journal of Economics 123(3): 1161-1195.
 - Handout for Lizzeri and Siniscalchi (2008).
- Milgrom, Paul and Chris Shannon. (1994). "Monotone Comparative Statics," Econometrica, 62(1): 157-180.
- Pastorino, Elena. (2009). "<u>Learning in Labor Markets and Job Mobility</u>," Unpublished manuscript, University of lowa, Department of Economics.
- Quah, John K.-H. (2007). "<u>The Comparative Statics of Constrained Optimization Problems</u>," *Econometrica*, 75(2): 401-431.
- Sarafidis, Yianis. (2006). "Games with Time Inconsistent Players," Unpublished manuscript, Yale University, Department of Economics.
- Cosconati, Marco. (2010). Handout: Introduction to Lectures on Parent-Child Interaction.
- Cosconati, Marco. (2010). "Parenting Style and the Development of Human Capital in Children,"
 Unpublished manuscript, University of Padova, IZA and IRVAPP.
- Weinberg, Bruce (2001). "An Incentive Model of the Effect of Parental Income on Children," Journal of Political Economy 109(2), 266–289.
- Tucker-Drob, Elliot M., Rhemtulla, Mijke, Harden, K. Paige, Turkheimer, Eric, and Fask, David. (2011). "Emergence of a Gene × Socioeconomic Status Interaction on Infant Mental Ability Between 10 Months and 2 Years," Psychological Science, 22(1): 125-133.
 - Handout for Tucker-Drob, et al. (2011).
- Kaler, Stephen G. and Owen M. Rennert. (2008). <u>Reducing the Impact of Poverty on Health and Human Development: Scientific Approaches</u>. Annals of the New York Academy of Sciences, Volume 1136.
- Hoddinott, John, John A. Maluccio, Jere R. Behrman, Rafael Flores and Reynaldo Martorell. (2008).

- "Effect of a Nutrition Intervention During Early Childhood on Economic Productivity in Guatemalan Adults." *The Lancet*, 371(9610):411-416.
 - Handout for Hoddinott, Maluccio, Behrman, Flores, and Martorell (2008).
- Barker, D.J.P., P.D. Winter, C. Osmond, B. Margetts, and S.J. Simmonds. (1989). "Weight in Infancy and Death from Ischaemic Heart Disease", *The Lancet* 334(8663):577-580.
- Black, Sandra E., Paul J. Devereux and Kjell G. Salvanes. (2007). "From the Cradle to the Labor Market? The Effect of Birth Weight on Adult Outcomes." Quarterly Journal of Economics, 122(1):409-439.
- Conley, Dalton and Neil G. Bennett (2000). "Is Biology Destiny? Birth Weight and Life Chances."
 American Sociological Review, 65:458-467.
- Conley, Dalton, Kate W. Strully and Neil G. Bennett. (2003). *The Starting Gate: Birth Weight and Life Chances*. Berkeley: University of California Press.
- Conley, Dalton, Kate W. Strully and Neil G. Bennett. (2006). "<u>Twin Differences in Birth Weight: The Effects of Genotype and Prenatal Environment on Neonatal and Post-Neonatal Mortality.</u>"
 Economics and Human Biology, 4(2):151-183.
- Currie, Janet and Rosemary Hyson. (1999). "Is the Impact of Health Shocks Cushioned by Socioeconomic Status? The Case of Low Birthweight." American Economic Review, 89(2):245-250.
- Currie, Janet and Enrico Moretti. (2007). "Biology as Destiny? Short- and Long-Run Determinants of Intergenerational Transmission of Birth Weight." *Journal of Labor Economics*, 25(2):231-263.
- Huxley, Rachel, Andrew Neil and Rory Collins. (2002). "<u>Unravelling the Fetal Origins Hypothesis: Is There Really an Inverse Association Between Birthweight and Subsequent Blood Pressure?</u>" The Lancet, 360(9334):659-665.
- McCormick, Marie C. (1985), "<u>The Contribution of Low Birth Weight to Infant Mortality and Childhood Morbidity</u>." The New England Journal of Medicine, 312(2):82-90.
- Oreopoulos, Philip, Mark Stabile, Randy Walld, and Leslie L. Roos. (2008). "Short, Medium, and Long Term Consequences of Poor Infant Health: An Analysis using Siblings and Twins." Journal of Human Resources, 43(1):88-138.
- Poulter, N.R., C.L. Chang, A.J. MacGregor, H. Snieder and T.D. Spector. (1999). "<u>Association between Birth Weight and Adult Blood Pressure in Twins: Historical Cohort Study</u>." *British Medical Journal*, 319(7221):1330-1333.
- Royer, Heather. (2009). "Separated at Girth: US Twin Estimates of the Effects of Birth Weight." American Economic Journal: Applied Economics, 1(1):49-85.
- Tu, Yu-Kang, Robert West, George T.H. Ellison and Mark S. Gilthorpe. (2005). "Why Evidence for the Fetal Origins of Adult Disease Might Be a Statistical Artifact: The "Reversal Paradox" for the Relation between Birth Weight and Blood Pressure in Later Life." American Journal of Epidemiology, 161(1):27-32.
- Taylor, Shelley E. (2008). "<u>Stress and Health Across the Lifespan</u>." Keynote Address, Association for Psychological Science, Chicago, IL. May 22-25, 2008.
- Gluckman, Peter D. and Mark Hanson. (2005). *The Fetal Matrix: Evolution, Development, and Disease*. Cambridge, UK: Cambridge University Press.
- Gluckman, Peter D. and Mark Hanson, eds. (2006). *Developmental Origins of Health and Disease*. New York: Cambridge University Press.
- Deaton, Angus, (2003). "<u>Health, Inequality, and Economic Development</u>." *Journal of Economic Literature*, 41(1): 113-158.
- Deaton, A., and Paxson, C. (2003). "Mortality, Income, and Income Inequality over time in Britain and the United States." In:Wise, D.A. (ed.), Perspectives on the Economics of Aging, Vol. VIII. Chicago, IL: University of Chicago Press for NBER.
- Paul Allanson, Ulf-G. AND Gerdtham, Dennis Petrie. (2010). "Longitudinal Analysis of Income-Related Health Inequality." Journal of Health Economics, 29(1): 78-86.

- Kishiyama, Mark M., William T. Boyce, Amy M. Jimenez, Lee M. Perry, and Robert T. Knight. (2009). "Socioeconomic Disparities Affect Prefrontal Function in Children." Journal of Cognitive Neuroscience, 21(6): 1106-1115.
 - Handout for Kishiyama, et al. (2009).
- Handout for Heckman, James J. (2006). "<u>The Technology and Neuroscience of Skill and Health Formation</u>." Presented at "Economic Causes and Consequences of Population Aging," Robert Fogel 80th Birthday Celebration, November 18, 2006.

Preferences and Traits

- Borghans, Lex, Huub Meijers, and Bas ter Weel. (2008). "The Role of Noncognitive Skills in Explaining Cognitive Test Scores," Economic Inquiry, 46(1): 2-12.
- Borghans, Lex, Golsteyn, Bart H. H., Heckman, James J. and Meijers, Huub. (2009). "Gender Differences in Risk Aversion and Ambiguity Aversion," IZA Discussion Paper No. 3985.
 - Handout for Borghans, Golsteyn, Heckman, and Meijers (2009).
- Camerer, Colin F. and George Loewenstein. (2004). "Introduction: Behavioral Economics: Past, Present and Future." in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. pp. 1-52.
- Fehr, Ernst and Armin Falk. (2002). "Psychological Foundations of Incentives." Schumpeter Lecture at the European Economic Association Meeting 2001. European Economic Review46(4-5):687-724.
- Dohmen, Thomas, Armin Falk, David Huffman, Uwe Sunde, Jürgen, Schupp, and Gert G. Wagner. (2009). "Individual Risk Attitudes: Measurement, Determinants and Behavioral Consequences," Journal of the European Economic Association, Forthcoming (working paper version, ROA-RM-2009/6).
- Dohmen, Thomas, Armin Falk, David Huffman, Felix Marklein, Uwe Sunde. (2009). "Biased probability judgment: Evidence of incidence and relationship to economic outcomes from a representative sample," Journal of Economic Behavior & Organization, 72(3): 903-915.
- Dohmen, Thomas, Armin Falk, David Huffman, Uwe Sunde. (2009). "<u>Are Risk Aversion and Impatience Related to Cognitive Ability?</u>," *American Economic Review*, Forthcoming (working paper version, ROA-RM-2009/7).
- Dohmen, Thomas, David Jaeger, Armin Falk, David Huffman, Uwe Sunde, Holger Bonin. (2009).
 "<u>Direct Evidence on Risk Attitudes and Migration</u>," Review of Economics and Statistics, Forthcoming (working paper version, ROA-RM-2008/11).
- Dohmen, Thomas, Armin Falk, David Huffman, and Uwe Sunde. (2006). "The Intergenerational Transmission of Risk and Trust Attitudes." IZA Discussion Papers 2380. Bonn, Germany: Institute for the Study of Labor
- Dohmen, Thomas, Armin Falk, David Huffman, and Uwe Sunde. (2008). "Representative Trust and Reciprocity: Prevalence and Determinants." Economic Inquiry, 46(1):84–90.
- Dohmen, Thomas, Armin Falk. (2009). "<u>Performance Pay and Multi-dimensional Sorting--Productivity, Preferences and Gender</u>," Unpublished manuscript, Maastricht University, Research Centre for Education and the Labour Market (ROA).
- Brown, Martin, Falk, Armin, and Fehr, Ernst. (2004). "Relational Contracts and the Nature of Market Interactions," *Econometrica*, 72(3): 747-780.
- Falk, Armin, Fehr, Ernst, and Fischbacher, Urs. (2003). "<u>Testing Theories of Fairness--Intentions Matter</u>," *Games and Economic Behavior*, 62(1): 287-303.
- Levy-Garboua, Louis, Meidinger, Claude, and Rapoport, Benoit. (2006). "The Formation of Social Preferences: Some Lessons from Psychology and Biology," in S.-C. Kolm and J. Mercier Ythier, eds., Handbook on the Economics of Giving, Reciprocity and Altruism, Volume 1: Foundations, pp. 545-613. Amsterdam: Elsevier.

- Fehr, Ernst, and Schmidt, Klaus M. (2006). "<u>The Economics of Fairness, Reciprocity and Altruism Experimental Evidence and New Theories</u>," in S.-C. Kolm and J. Mercier Ythier, eds., *Handbook on the Economics of Giving, Reciprocity and Altruism*, Volume 1: Foundations, pp. 615-691.
- Prasnikar, Vesna and Roth, Alvin E. (1992). "Considerations of Fairness and Strategy: <u>Experimental Data From Sequential Games</u>," Quarterly Journal of Economics, 107(3): 865-888.
- Rabin, Matthew. (1993). "Incorporating Fairness into Game Theory and Economics," American Economic Review, 83(5): 1281-1302.
- Starmer, Chris. (2004). "Developments in Nonexpected-Utility Theory: The Hunt for a Descriptive Theory of Choice under Risk." in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. pp. 104-147
- Frederick, Shane, George Loewenstein, and Ted O'Donoghue. (2004). "Time Discounting and Time Preference: A Critical Review." in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. pp. 162-222.
- Fehr, Ernst and Simon Gächter. (2004). "Fairness and Retaliation: The Economics of Reciprocity," in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press.
- Fehr, Ernst and Schmidt, Klaus. "A Theory of Fairness, Competition, and Cooperation." in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. pp. 271-296.
- Laibson, David. (2004). "Golden Eggs and Hyperbolic Discounting," in Advances in Behavioral Economics, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. Chapter 15.
- Gneezy, Uri and Aldo Rustichini. (2004). "Incentives, Punishment, and Behavior," in *Advances in Behavioral Economics*, C. Camerer, G. Loewenstein and M. Rabin, eds. Princeton, NJ: Princeton University Press. Chapter 21.
- Fehr, Ernst. (2008). "Social Preferences and the Brain," in Neuroeconomics: Decision Making and the Brain, P. Glimcher, C. Camerer, E. Fehr, and R. Poldrack, eds. New York: Academic Press. pp. 215-232.
- Rangel, Antonio. (2008). "<u>The Computation and Comparison of Value in Goal-Directed Choice</u>," in *Neuroeconomics: Decision Making and the Brain*, P. Glimcher, C. Camerer, E. Fehr, and R. Poldrack, eds. New York: Academic Press.
- Fehr, Ernst. (2008). "On the Economics and Biology of Trust." IZA Discussion Paper No. 3895.
- Fehr, Ernst, Lorenz Goette, and Christian Zehnder. (2008). "A Behavioral Account of Labor Market: The Role of Fairness Concerns." IZA Discussion Paper No. 3901.
- Chabris, Christopher F., David Laibson, Carrie L. Morris, Jonathan P. Schuldt, and Dmitry Taubinsky. (2008). "Individual Laboratory-Measured Discount Rates Predict Field Behavior," Journal of Risk and Uncertainty, 37(2-3):237-269.
 - Handout for Chabris, et al. (2008).
- Fang, Hanming and Dan Silberman. (2007). "<u>Time-inconsistency and Welfare Program Participation: Evidence from the NLSY</u>," NBER Working Paper No. 13375.
 - Handout for Fang and Silberman (2007).
- Bowles, Samuel, Herbert Gintis, and Melissa Osborne. (2001). "<u>The Determinants of Earnings: A Behavioral Approach</u>." *Journal of Economic Literature*, 39(4):1137-1176.
 - Handout for Bowles, Gintis, and Osborne (2001).
- Steinberg, Laurence. (2008). "A Social Neuroscience Perspective on Adolescent Risk-Taking."
 Developmental Review, 28(1, Current Directions in Risk and Decision Making):78-106.
 - Handout for Steinberg (2008).
- Bowles, Samuel. (2006). "Group Competition, Reproductive Leveling, and the Evolution of Human Altruism," Science, 314(5805): 1569-1572.
- Bowles, Samuel. 2009. "Did Warfare among Ancestral Hunter-Gatherers Affect the Evolution of

- Human Social Behaviors?" Science, 324(5932): 1293-1298.
- Bowles, Samuel. (2008.) "Policies Designed for Self-Interested Citizens may Undermine 'The Moral Sentiments': Evidence from Economic Experiments." Science, 320(5883): 1605-1609.
- Boyd, Robert; Herbert Gintis and Samuel Bowles. (2010.) "Coordinated Punishment of Defectors Sustains Cooperation and can Proliferate when Rare." Science, 328(5978): 617-620.
- Henrich, Joseph; McElreath, Richard; Barr, Abigail; Ensminger, Jean; Barrett, Clark; Bolyanatz, Alexander; Cardenas, Juan Camilo; Gurven, Michael; Gwako, Edwins; Henrich, Natalie; Lesorogol, Carolyn; Marlowe, Frank; Tracer, David and Ziker, John. (2006). "Costly Punishment Across Human Societies," Science, 312(5781): 1767-1770.
- Baumard, Nicolas; Boyer, Pascal, and Sperber, Dan. (2010). "<u>Evolution of Fairness: Cultural Variability</u>," *Science*, 329(5990): 388-389.
- Henrich, Joseph; Ensminger, Jean; McElreath, Richard; Barr, Abigail; Barrett, Clark; Bolyanatz, Alexander; Cardenas, Juan Camilo; Gurven, Michael; Gwako, Edwins; Henrich, Natalie; Lesorogol, Carolyn; Marlowe, Frank; Tracer, David and Ziker, John. (2010). "Markets, Religion, Community Size, and the Evolution of Fairness and Punishment," Science, 327(5972): 1480-1484.
- Herrmann, Benedikt; Thöni, Christian, and Gächter, Simon. (2008). "Antisocial Punishment Across Societies," Science, 319(5868): 1362-1367.
- Mulder, Monique Borgerhoff; Bowles, Samuel; Hertz, Tom; Bell, Adrian; Beise, Jan; Clark, Greg; Fazzio, Ila; Gurven, Michael; Hill, Kim; Hooper, Paul L.; Irons, William; Kaplan, Hillard; Leonetti, Donna; Low, Bobbi; Marlowe, Frank; McElreath, Richard; Naidu, Suresh; Nolin, David; Piraino, Patrizio; Quinlan, Rob; Schniter, Eric; Sear, Rebecca; Shenk, Mary; Smith, Eric Alden; von Rueden, Christopher and Wiessner, Polly. (2009). "Intergenerational Wealth Transmission and the Dynamics of Inequality in Small-Scale Societies," Science, 326(5953): 682-688.
- Camerer, Colin F. and Ernst Fehr. (2006)."When does "Economic Man" Dominate Social Behavior?" Science, 311(5757): 47-52.
- Choi, Jung-Kyoo and Samuel Bowles. (2007). "<u>The Coevolution of Parochial Altruism and War,</u>" Science, 318(5850): 636-640.
- Gintis, Herbert. (2008). "Punishment and Cooperation," Science, 319(5868): 1345-1346.
- Kuhnen, Camelia. (2010). "Your Brain and your Finances: Insights from neuroeconomics," European Financial Review, Dec 18th, 2010. http://www.europeanfinancialreview.com/?p=2261. Last accessed 1/30/2011.
- Handout: Anderson, Jon; Burks, Stephen; DeYoung, Colin; and Rustichini, Aldo. (2011). "<u>Decision Theory and Personality Theory: An experimental analysis</u>," Presented January 27, 2011, University of Minnesota.

Models of Addiction and Self Control

- Bernheim, B. Douglas and Antonio Rangel (2004). "<u>Addiction and Cue-Triggered Decision Processes</u>," *American Economic Review*, 94(5):1558-1590.
 - Handout for Bernheim and Rangel (2004).
- Fudenberg, Drew, and Levine, David K. (2006). "<u>A Dual-Self Model of Impulse Control</u>," *American Economic Review*, 96(5): 1449-1476.
 - Handout for Fudenberg and Levine (2006).
- Gul, Faruk and Pesendorfer, Wolfgang. (2001). "<u>Temptation and Self-Control</u>," *Econometrica*, 69(6): 1403-1435.
 - Handout for Gul and Pesendorfer (2001).
- Laibson, David I., Repetto, Andrea, Tobacman, Jeremy, Hall, Robert E., Gale, William G., and Akerlof, George A. (1998). "Self-Control and Saving for Retirement," Brookings Papers on Economic Activity, 1998(1): 91-196.
 - Handout for Laibson, et al. (1998).

- Tirole, Jean. (2002). "Rational Irrationality: Some Economics of Self-Management," European Economic Review, 46(4-5): 633-655.
 - Handout for Tirole (2002).
- Chen, Xiang; Cho, Kelly; Singer, Burton H.; and Zhang, Heping (2011). "The Nuclear Transcription Factor PKNOX2 Is a Candidate Gene for Substance Dependence in European-Origin Women," PLoS ONE, 6: p. e16002. http://dx.doi.org/10.1371%2Fjournal.pone.0016002, last accessed 1/30/2011.
- Becker, Gary S. and Kevin M. Murphy. (1988). "<u>A Theory of Rational Addiction</u>," *Journal of Political Economy*, 96(4):675-700.
 - Handout for Becker and Murphy (1988).
- Bernheim, B. Douglas and Antonio Rangel (2004). "<u>Addiction and Cue-Triggered Decision Processes</u>," *American Economic Review*, 94(5):1558-1590.
 - Handout for Bernheim and Rangel (2004).

The Economics of the Family

- Mazumder, Bashkar. (2005). "<u>Fortunate Sons: New Estimates of Intergenerational Mobility in the United States Using Social Security Earnings Data.</u>" Review of Economics and Statistics, 87(2):235-255.
 - Handout for Mazumder (2005).
- Browning, Martin, Pierre Andre Chiappori, and Yoram Weiss. Family Economics. Forthcoming. Cambridge, UK: Cambridge University Press. Please see items 11-21 at: http://www.tau.ac.il/~weiss/fam_econ/
 - Updated chapters for Prof. Weiss' sessions
 - Lecture Notes for Chapter 7 and Chapter 8
- Bergstrom, Theodore C. (1997). "A Survey of Theories of the Family." in Handbook of Population and Family Economics, Vol. 1A, M. Rosenzweig and O. Stark, eds. Amsterdam: Elsevier Science. pp. 21-79.
 - Handout for Bergstrom (1997).
- Lundberg, Shelly and Robert A. Pollak. (2007). "<u>The American Family and Family Economics.</u>" *Journal of Economic Perspectives*. 21(2):3-26.
- Lundberg, Shelly and Robert A. Pollak. (2008). "Bargaining in Families." Unpublished manuscript, University of Washington.
- Altonji, J. and U. Doraszelski. (2005). "The Role of Permanent Income and Demographics in Black/White Differences in Wealth." *Journal of Human Resources* 40(1): 1-30.
 - Handout for Altonii and Doraszelski (2005)
- Browning, Martin, Blow, Laura, and Ejrnaes, Mette. (2009). "Marriage and Consumption,"
 Economics Series Working Papers 427, University of Oxford, Department of Economics.
- Browning, Martin and Bonke, Jens. (2009). "Pooling of Income and Sharing of Consumption within Households," Economics Series Working Papers 428, University of Oxford, Department of Economics.
- Browning, Martin and Bonke, Jens. (2006). "<u>Allocation within the Household: Direct Survey Evidence</u>," Economics Series Working Papers 286, University of Oxford, Department of Economics. http://www.economics.ox.ac.uk/Research/wp/pdf/paper286.pdf
- Martin Browing & Pierre-Andre Chiappori & Valerie Lechene, 2006. "<u>Distributional Effects in Household Models: Separate Spheres and Income Pooling</u>," Economics Series Working Papers 293, University of Oxford, Department of Economics.
- Browning, Martin and Ejrnæs, Mette. (2009). "Consumption and Children," Review of Economics and Statistics, 91(1): 93-111.
- Browning, Martin, Pierre Andre Chiappori, and Yoram Weiss. Family Economics. Forthcoming.

- Cambridge, UK: Cambridge University Press. Please see items 10-19 at: http://www.tau.ac.il/~weiss/fam_econ/
- Francesconi, Marco, Christian Ghiglino and Motty Perry. (2009). "On the Origin of the Family," IZA Discussion Paper No. 4637.
- Navarro Lozano, Salvador. (2001). "Notes on Gary Becker's Human Capital and the Economy."
- Weiss, Yoram. (1997). "<u>The Formation and Dissolution of Families: Why Marry? Who Marries</u>
 <u>Whom? And What Happens upon Divorce?</u>" in *Handbook of Population and Family Economics*,
 Vol. 1A, M. Rosenzweig and O. Stark, eds. Amsterdam: Elsevier Science. pp. 189-238.
- Chiappori, Pierre-Andre. (1992). "Collective Labor Supply and Welfare," Journal of Political Economy, 100(3):437-467.
- Manser, Marilyn and Brown, Murray (1980). "Marriage and Household Decision-Making: A
 <u>Bargaining Analysis</u>," International Economic Review, 21(1):31-44.
- Cigno, Alessandro. (2009). "What's the Use of Marriage?" IZA Discussion Paper No. 4635.
- Livanos, Ilias and Konstantinos Pouliakas. (2009). "<u>The Gender Wage Gap as a Function of Educational Degree Choices in an Occupationally Segregated EU Country</u>," IZA Discussion Paper No. 4636.
- Chiappori, Pierre-Andre; Fortin, Bernard and Lacroix, Guy (2002). "Marriage Market, Divorce Legislation, and Household Labor Supply," Journal of Political Economy, 110(1): 37-72.
- Blundell, Richard, Pierre-Andre Chiappori, Thierry Magnac, and Costas Meghir. (2007). "Collective Labour Supply: Heterogeneity and Non-Participation," Review of Economic Studies, 74(2):417-445.
- Duflo, Esther and Udry, Christopher. (2004). "Intrahousehold Resource Allocation in Cote D'Ivoire: Social Norms, Separate Accounts and Consumption Choices," NBER Working Paper No. 10498.
- Lundberg, Shelly and Robert A. Pollak. (2003). "Efficiency in Marriage." Review of Economics of the Household, 1(3):153-167. NBER Working Paper No. 8642.
- Lundberg, Shelly and Robert A. Pollak. (1996). "Bargaining and Distribution in Marriage." *Journal of Economic Perspectives*, 10(4):139-158.
- Lundberg, Shelly and Robert A. Pollak. (1994). "Noncooperative Bargaining Models of Marriage."
 American Economic Review, 84(2):132-137.
- Lundberg, Shelly and Robert A. Pollak. (1993). "Separate Spheres Bargaining and the Marriage Market." *Journal of Political Economy*, 101(6):988-1010.
- Lundberg, Shelly, Robert A. Pollak, and Terence J. Wales. (1997). "<u>Do Husbands and Wives Pool Their Resources? Evidence from the United Kingdom Child Benefit.</u>" *Journal of Human Resources*, 32(3):463-480.
- Apps, Patricia F. and Rees, Ray. (1997). "Collective Labor Supply and Household Production,"
 Journal of Political Economy, 105(1):178-190.
- Ermisch, John, Marco Francesconi, and Thomas Siedler. (2006). "Intergenerational Mobility and Marital Sorting," *Economic Journal*, 116:659-679.
- Thomas, Duncan. (1990). "Intra-household Resource Allocation: An Inferential Approach." Journal of Human Resources, 25(4):635-664.
- Duflo, Esther. (2000). "Child Health and Household Resources in South Africa: Evidence from the Old Age Pension Program." American Economic Review, 90(2): 393-398.
- Duflo, Esther. (2003). "Grandmothers and Granddaughters: Old-Age Pensions and Intrahousehold Allocation in South Africa." World Bank Economic Review, 17(1):1-25.
- Francesconi, M., H. Rainer, and W. van der Klaauw. (2008). "<u>Unintended Consequences of Welfare Reform: The Case of Divorced Parents</u>." IZA Discussion Paper No. 3891.
- Behrman, Jere R.; Rosenzweig, Mark R. and Taubman, Paul. (1994). "<u>Endowments and the Allocation of Schooling in the Family and in the Marriage Market: The Twins Experiment</u>." *Journal of Political Economy*, 102(6): 1131-1174.
- Bergstrom, Theodore. (1989). "A Fresh Look at the Rotten Kid Theorem-and Other Household

- Mysteries." Journal of Political Economy 97(5), 1138–1159.
 - Handout for Bergstrom (1989).
- Goldberger, A. S. (1978). "<u>The Genetic Determination of Income: Comment</u>." *American Economic Review*. 960-969.
- Li, Hongbin; Rosenzweig, M. R. and Zhang, J. (2009). "<u>Altruism, Favoritism, and Guilt in the Allocation of Family Resources: Sophie's Choice in Mao's Mass Send Down Movement</u>." Yale University Economic Growth Center Discussion Paper No. 965.
- Li, Hongbin; Zhang, Junsen and Zhu, Yi. (2008). "<u>The Quantity-Quality Trade-Off of Children in a Developing Country: Identification Using Chinese Twins</u>." *Demography*, 45(1): 223-243.
- Qian Nancy. (2009). "Quantity-Quality and the One Child Policy: The Only-Child Disadvantage in School Enrollment in Rural China." NBER Working Paper No. 14973.
- Rosenzweig, Mark R. and Wolpin, Kenneth I. (1980). "<u>Testing the Quantity-Quality Fertility Model:</u> <u>The Use of Twins as a Natural Experiment</u>." *Econometrica*, 48(1): 227-240.
- Rosenzweig, Mark and Zhang, Junsen. (2009). "<u>Do Population Control Policies Induce More Human Capital Investment? Twins, Birthweight, and China's 'One Child' Policy,</u>" *Review of Economic Studies*, 76(3): 1149-1174.
- Rosenzweig, Mark R. (1986). "Birth Spacing and Sibling Inequality: Asymmetric Information within the Family." International Economic Review, 27(1): 55-76.
- Taubman, P. (1976). "The Determinants of Earnings: Genetics, Family, and Other Environments: A Study of White Male Twins." American Economic Review, 66(5): 858-870.
- Taubman, P. (1978). "What We Learn from Estimating the Genetic Contribution to Inequality in Earnings: Reply." American Economic Review, 68(5): 970-976.
- Behrman, Jere R.; Rosenzweig, Mark R. and Taubman, Paul. (1994). "Endowments and the Allocation of Schooling in the Family and in the Marriage Market: The Twins Experiment." Journal of Political Economy, 102(6): 1131-1174.
- Burton, Peter, Shelley Phipps, and Lori Curtis. (2002). "All in the Family: A Simultaneous Model of Parenting Style and Child Conduct." American Economic Review, 92(2): 368-372.
- Chen, H. (1998). "<u>Empirical Studies of Human Capital Formation: the Role of Family, Sibling, and Neighborhood</u>," Ph.D. dissertation, Virginia Polytechnic Institute and State University.
- Cosconati, Marco. (2010). "Parenting Style and the Development of Human Capital in Children,"
 Unpublished manuscript, University of Padova, IZA and IRVAPP.
 - Handout for Cosconati (2010).
 - o Cosconati, Marco. (2010). Handout: Introduction to Lectures on Parent-Child Interaction.
- Neidell, Matthew J. (2000). "<u>Early Parental Time Investments in Children's Human Capital Development: Effects of Time in the First Year on Cognitive and Non-cognitive Outcomes</u>" UCLA Economics Working Papers No. 806. August 23, 2000.
- Rangel, M. A. (2006). "<u>Alimony Rights and Intra Household Allocation of Resources: Evidence from Brazil</u>." *Economic Journal*, 116(513): 627-658.
- Stafford, F.P. (1987), "Women's Work, Sibling Competition, and Children's School Performance," *American Economic Review*, 77(5): 972-980.
- Strauss, J. A., and Duncan T. (1995), "<u>Human Resources: Empirical Modeling of Household and Family Decisions</u>," in Srinivasan, T.N. and Behrman, J., (eds.), *Handbook of Development Economics*, Vol. 3, New York and Oxford: Elsevier Science, North Holland.
- Thangavelu, Tharshini. (2009). "<u>Like Mother Like Daughter, Like Father Like Son: The influence of Parental Education on Child Health. Estimates from the Ghanaian Demographic and Health Surveys</u>" Unpublished manuscript, University of Stockholm, Department of Economics.
- Hansen, Karsten, James J. Heckman, and Kathleen Mullen. (2004). "<u>The Effect of Schooling and Ability on Achievement Test Scores</u>" *Journal of Econometrics*, 121(1-2):39-98.
 - Handout for Hansen, Heckman and Mullen (2004).
- Heckman, James J. (1981). "Heterogeneity and State Dependence." in Studies in Labor Markets.

- S. Rosen, ed. Chicago: University of Chicago Press. pp. 91-139.
 - Handout for Heckman (1981).
- Mazzocco, Maurizio. (2007). "<u>Household Intertemporal Behaviour: A Collective Characterization and a Test of Commitment</u>." *Review of Economic Studies*, 74(3):857-895.
- Souza, Priscila. (2010). "Moral Hazard in the Family." Unpublished manuscript, Yale University.
- Manlove, Jennifer, Terry-Humen, Elizabeth, Ikramullah, Erum, Holcombe, Emily. (2008). "Sexual and Reproductive Health Behaviors among Teen and Young Adult Men: A Descriptive Portrait."
 ChildTrends Research Brief No. 2008-34.
- Scott, Mindy E., Schelar, Erin, Manlove, Jennifer, and Cui, Carol. (2009). "Young Adult Attitudes
 <u>About Relationships and Marriage: Times May Have Changed. But Expectations Remain High.</u>"
 ChildTrends Research Brief No. 2009-30.
- Scott, Mindy E., Steward-Streng, Nicole R., Manlove, Jennifer, Schelar, Erin, and Cui, Carol. (2011).
 "Characteristics of Young Adult Sexual Relationships: Diverse, Sometimes Violent, Often Loving,"
 ChildTrends Research Brief No. 2011-01.
- Wildsmith, Elizabeth, Schelar, Erin, Peterson, Kristen, and Manlove, Jennifer. (2010). "Sexually <u>Transmitted Diseases among Young Adults: Prevalence, Perceived Risk, and Risk-Taking</u> Behaviors." ChildTrends Research Brief No. 2010-10.
- Adam, Christopher; Hoddinott, John, and Ligon, Ethan. (2011). "<u>Dynamic Intrahousehold</u>
 <u>Bargaining, Matrimonial Property Law, and Suicide in Canada</u>." Unpublished manuscript, University
 of California at Berkeley.
- Dubois, Pierre & Ligon, Ethan. (2009). "Nutrition and Risk Sharing within the Household," IDEI Working Papers 580, Institut d'Économie Industrielle (IDEI), Toulouse.
- Ligon, Ethan. (2002). "<u>Dynamic bargaining in households (with application to Bangladesh)</u>,"
 Department of Agricultural & Resource Economics, UC Berkeley, Working Paper Series 4784,
 Department of Agricultural & Resource Economics, UC Berkeley.
- Currie, Janet. (2011). "Inequality at Birth: Some Causes and Consequences," NBER Working Paper No. 16798.
- Handouts:
 - Pollak, Robert A. (2008). Slides: "Bargaining in Families"
 - Lundberg, Shelly and Robert A. Pollak. (2008). Slides: "Sorting in the Marriage Market, and the Incentives to Accumulate Human Capital."
 - Pollak, Robert A. (2008). Slides: "<u>Allocating Time: Individuals' Technologies and Household Technology</u>."

©Department of Economics 1126 E. 59th Street, Chicago, Illinois 60637