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## EDUCATION

B.A. Business Economics, University of California, Santa Barbara, 1981

M.A. Economics, University of California, Los Angeles, 1984

Ph.D. Economics, University of California, Los Angeles, 1989

"Two Essays on the Economics of Adverse Selection and Moral Hazard"

## EMPLOYMENT EXPERIENCE

Senior Research Economist, Bureau of Labor Statistics 3/20 – present.

Division Chief, Bureau of Labor Statistics 6/09 – 3/20.

Research Economist, Bureau of Labor Statistics 8/91 – 6/09.

Visiting Assistant Professor, Tulane University 9/89 – 6/91.

Economist, Unicon Research Corp. 7/88 – 8/89.

## PUBLISHED AND ACCEPTED PAPERS

"Dispersion in Dispersion: Measuring Establishment-Level Differences in Productivity" (with Cindy Cunningham, Lucia Foster, Cheryl Grim, John Haltiwanger, Sabrina Pabilonia, and Zoltan Wolf) Center for Economic Studies Working Paper CES 18-25RR (older versions are: BLS Working Paper No. 530, IZA Discussion Paper 14459). *Review of Income and Wealth,* 69(4), December 2023.

"Opening the Black Box: Skill and Task Mix and Productivity Dispersion" (with Cindy Cunningham, Matthew Dey, Lucia Foster, Cheryl Grim, John Haltiwanger, Rachel Nesbit, Sabrina Wulff Pabilonia, Cody Tuttle, and Zoltan Wolf), forthcoming in CRIW Conference volume, *Technology, Productivity and Economic Growth*, edited by Susanto Basu, Lucy Eldridge, John C. Haltiwanger, and Erich H. Strassner.

"Improving Estimates of Hours Worked for U.S. Productivity Measurement" (with Lucy Eldridge, Sabrina Pabilonia, Drake Palmer, and Jerin Varghese). *Monthly Labor Review*, October 2022.

"Why was Labor Productivity Growth So High during the COVID-19 Pandemic? The Role of Labor Composition." *International Productivity Monitor*, Spring 2022.

"How large are revisions to estimates of quarterly labor productivity growth?" (with Kendra Asher, John Glaser, Peter Meyer, and Jerin Varghese). *Monthly Labor Review*, March 2022.

"Chaos Before Order: Productivity Patterns in U.S. Manufacturing" (with Cindy Cunningham, Sabrina Wulff Pabilonia, Lucia Foster, Cheryl Grim, John Haltiwanger, and Zoltan Wolf). *International Productivity Monitor* 41, Fall 2021).

"Time Spent Exercising and Obesity: An Application of Lewbel's Instrumental Variables Method" (with Charles Courtemanche and Joshua Pinkston). *Economics and Human Biology* 41 (May 2021).

"The importance and challenges of measuring work hours" (with Harley Frazis) *IZA World of Labor* article, 2019 (revised version of 2014 article – invited).

"Getting Started with Time-Use Data" *Journal of Time Use Research*, 2018.

"The BLS Productivity Program" (with Lucy Eldridge and Chris Sparks) in the *Oxford Handbook of Productivity Analysis*, Oxford University Press, 2018.

"Reconciling the divergence in aggregate U.S. wage series" (with Julien Champagne and Andre Kurmann) *Labour Economics* 49, December 2017, pp. 27-41.

"Secondary Childcare in the ATUS: What Does It Measure?" (with Dori Allard) in *The Economics of Multitasking*, Charlene Kalenkoski and Gigi Foster, eds., Palgrave MacMillan, New York, 2016.

"Adjusting Body Mass for Measurement Error with Invalid Validation Data" (with Charles Courtemanche and Josh Pinkston) *Economics and Human Biology* 19, December 2015, pp. 275-293.

"The importance and challenges of measuring work hours" *IZA World of Labor* article, 2014.

"Is the workweek really overestimated?" (with Harley Frazis) *Monthly Labor Review*, June 2014, http://www.bls.gov/opub/mlr/2014/article/is-the-workweek-really-overestimated.htm.

"Early to Bed and Earlier to Rise: School, Maternal Employment, and Children's Sleep," *Review of Economics of the Household*, 12(1), March 2014, pp. 29-50.

"Tobit or Not Tobit?" *Journal of Economic and Social Measurement*. 38(3), 2013, pp. 263-290.

"Cyclical Variation in Labor Hours and Productivity Using the ATUS" (with Michael Burda and Daniel S. Hamermesh). *American Economic Review Papers and Proceedings* 103(3), May 2013, pp. 99-104.

"How to Think About Time-Use Data: What Inferences Can We Make About Long- and Short-Run Time Use from Time Diaries?" (with Harley Frazis), *Annales d'Economie et Statistique* (*Annals of Economics and Statistics*) 105/106, January/June 2012, pp. 231-246.

"How Does Nonmarket Production Affect Measured Earnings Inequality?" (with Harley Frazis), *Journal of Population Economics* 24(1), January 2011, pp. 3-22.

"The Timing of Maternal Work and Time with Children," *Industrial and Labor Relations Review* 64(1), October 2010, pp. 181-200.

"Time Use Surveys: Issues in Data Collection on Multitasking" (with Bob Drago), *Monthly Labor Review* 133(8), August 2010, pp. 17-31.

"Why Do BLS Hours Series Tell Different Stories About Trends in Hours Worked?" (with Harley Frazis) in *Labor in the New Economy*, Katharine G. Abraham, James R. Spletzer, and Michael J. Harper, eds., NBER Studies in Income and Wealth, University of Chicago Press, 2010, pp. 343-372.

"Comparing Hours Worked per Job in the CPS and the ATUS" (with Harley Frazis), *Social Indicators Research* 93(1), August 2009, pp. 191-195.

"The Time Use of Nonworking Men" in *How Do We Spend Our Time? Evidence From the American Time Use Survey*, Jean Kimmel, ed. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, 2008

"Using March CPS Data to Analyze Labor Market Transitions," *Journal of Economic and Social Measurement*. 32(2-3), 2007, pp. 177-197.

"Where Does the Time Go? Concepts and Measurement in the American Time Use Survey" (with Harley Frazis), in *Hard to Measure Goods and Services: Essays in Memory of Zvi Griliches*, Ernst Berndt and Charles Hulten, eds., NBER Studies in Income and Wealth, University of Chicago Press, 2007.

"Comparing Childcare Measures in the ATUS and Earlier Time-Use Studies" (with Dori Allard, Suzanne Bianchi, and Vanessa Wight), *Monthly Labor Review* 130(5), May 2007.

"How Do Older Americans Spend Their Time?" (with Rachel Krantz-Kent) *Monthly Labor Review* 130(5), May 2007.

"Male Nonworkers: Who Are They and Who Supports Them?" *Demography*. 43(3), August 2006, pp. 537-552.

"Assessing Alternative Indexes for Comparing Activity Profiles," *electronic International Journal of Time Use Research* 3(1), August 2006, pp. 49-59.

"Data Watch: The American Time Use Survey" (with Daniel Hamermesh and Harley Frazis), *Journal of Economic Perspectives* 19(1), Winter 2005, pp. 221-232.

"What Can Time Use Data Tell Us About Hours of Work?" (with Harley Frazis), *Monthly Labor Review* 127(12), December 2004, pp. 3-9.

"Assessing the Bias Associated with Alternative Contact Strategies in Telephone Time-Use Surveys." *Survey Methodology* 28(2), December 2002.

"Contact Strategies and Activity Bias in Telephone Time-Use Surveys" in the *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 2001.

"Did Job Security Decline in the 1990s?" in *On the Job: Is Long-Term Employment a Thing of the Past?* D. Neumark, Ed., Russell Sage Foundation, 2000.

"Why Collect Time-Use Data?" (with Mary Joyce), in the *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 1999.

"The CES Concepts Pilot Study: Design and Analysis of Responses" (with Karen Goldenberg, Anthony Gomes, and Marilyn Manser), in the *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 1999.

"Earnings Concepts and Data Availability for the Current Employment Statistics Survey: Findings from Cognitive Interviews" (with Karen Goldenberg), in the *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 1999.

"What Can We Learn From Time-Use Data?" (with Mary Joyce), *Monthly Labor Review* 122(8), August 1999, pp. 3-6.

"Why Do Different Wage Series Tell Different Stories?" (with Katharine G. Abraham and James R. Spletzer). *American Economic Review Papers and Proceedings*, 89(2), May 1999, pp. 34-39.

"Tracking the Returns to Education in the Nineties: Bridging the Gap Between the New and Old CPS Education Items" (with Harley Frazis), *Journal of Human Resources* 34(3), Summer 1999, pp. 629-41.

"Adverse Selection and Pay Compression," *Southern Economic Journal* 65(4), April 1999, pp.885-99.

"Divergent Trends in Alternative Wage Series," (with Katharine G. Abraham and James R. Spletzer), in *Labor Statistics Measurement Issues*, John Haltiwanger, Marilyn Manser, and Robert Topel, eds., University of Chicago Press, 1998.

"Keying Errors Caused by Unusual Response Categories: Evidence from A Current Population Survey Test" (with Harley Frazis), *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 1998, pp. 131-34.

"Counting the Workers: Results of a First Survey" (with Sharon R. Cohany, Steven F. Hipple, Thomas J. Nardone, and Anne E. Polivka) in *Contingent Work: American Employment Relations in Transition*, Kathleen Barker and Kathleen Christensen, eds., Cornell University Press, 1998.

"Earnings and Benefits of Contingent and Noncontingent Workers," (with Steven Hipple), *Monthly Labor Review* 119(10), October 1996, pp.22-30.

"Earnings and Benefits of Workers in Alternative Arrangements," (with Steven Hipple) *Monthly Labor Review* 119(10), October 1996, pp. 46-54.

"A Comparison of the New and Old Education Items in the Current Population Survey," (with Harley Frazis and Michelle Ports), *Monthly Labor Review* 118(9), September 1995, pp. 40-44.

"The Welfare Implications of Moral Hazard and Adverse Selection in Competitive Insurance Markets," *Economic Inquiry* 32(1), April 1994, pp. 193-208.

**CURRENT WORKING PAPERS**

"How large are long-run revisions to estimates of quarterly labor productivity growth?" (with John Glaser, Peter Meyer, and Jerin Varghese). BLS Working Paper WP-580.

## RESEARCH IN PROGRESS

"How Persistent are Establishment Wage Differentials?" (with Matthew Dey).

## UNPUBLISHED PAPERS AND REPORTS

"What Do Male Nonworkers Do? Evidence from the American Time Use Survey" (with Harley Frazis)

"Recent Trends in Job Stability and Job Security," BLS Working Paper No. 356, 2002.

"A Report on the Feasibility of Conducting a Time-Use Survey" (with Michael Horrigan, Diane Herz, Ed Robison, and Linda Stinson). Report submitted to the National Academy of Sciences, May 1999.

"The CES Concepts Pilot Study: Design and Analysis of Responses" (with Karen Goldenberg, Anthony Gomes, and Marilyn Manser), internal report, July 1999.

"Earnings Concepts and Data Availability for the Current Employment Statistics Survey: The Respondent Perspective" (with Karen Goldenberg), internal report, May 1999.

"Do Changes in the Social Security Benefit Formula Affect Transitions Into Retirement? Reexamining the Notch Cohorts," December 1998.

"Has Job Mobility Increased? Evidence from the Current Population Survey: 1975-1995" BLS Working Paper No. 308, February 1998.

"Do Older Workers Respond to Changes in Social Security? A Look at the Time Series Evidence," BLS Working Paper No. 272, (December 1995).

"The Labor Market Participation of Older Couples," June 1993.

## RECENT PRESENTATIONS

SGE Session at ASSA Annual Meetings (January 2021) "Reliability Statistics for Quarterly Labor Productivity Estimates" (with Kendra Asher, John Glaser, Peter Meyer and Jerin Varghese).

BLS Technical Advisory Committee (November 2020) "Reliability Statistics for Quarterly Labor Productivity Estimates" (with Kendra Asher, John Glaser, Peter Meyer and Jerin Varghese).

BLS Technical Advisory Committee (June 2019) "Improving Estimates of Hours Worked for U.S. Productivity Measurement" (with Lucy Eldridge and Sabrina Pabilonia).

Society of Labor Economists (May 2017) "How Persistent are Establishment Wage Differentials?" (with Matt Dey).

Southern Economic Association Meetings (November 2016) "How Persistent are Establishment Wage Differentials?" (with Matt Dey).

AEA Session on Statistics (January 2016) "How Persistent are Establishment Wage Differentials?" (with Matt Dey).

Society for Economic Measurement (July 2015) "Capital Input and the Sources of U.S. Economic Growth: A Comparison of Two Approaches" (with Jon Samuels, Erich Strassner, and Dave Wasshausen).

ASSA Annual Meetings (January 2015) Discussant for an SGE session on government statistics.

Perspectives on Time Use in the U.S. (June 2014) Discussant for session on methods.

American Economic Association Annual Meetings (January 2013) "Cyclical Variation in Labor Hours and Productivity Using the ATUS" (with Michael Burda and Daniel S. Hamermesh).

American University (October 2011) "How to Think About Time-Use Data: What Inferences Can We Make About Long- and Short-Run Time Use from Time Diaries?" (with Harley Frazis) and "How Does Time Use Affect the Probability of Becoming Obese?" (with Josh Pinkston).

International Association for Time Use Research (August 2011) "Tobit or Not Tobit?" and "Do Children Sleep Less When Both Parents Work?"

International Perspectives on Time Use Conference (June 2011) Discussant for session on student time use and achievement.

Society of Government Economists Annual Conference (November 2010) "Tobit or Not Tobit?"

International Association for Time Use Research (November 2009) "How Does Time Use Affect the Probability of Becoming Obese?" (with Josh Pinkston).

The American Time Use Research Conference (June 2009) "How Does Time Use Affect the Probability of Becoming Obese?" (with Josh Pinkston).

The American Time Use Research Conference (June 2009) – Discussant for session on research methods.

American Economic Association Annual Meetings (January 2009) – Discussant for an AEA session on data quality.

IZA/SOLE Transatlantic Meetings (May 2008) "What are Establishment Fixed Effects" (with Matt Dey).

Union College (February 2008) "Tobit or Not Tobit?"

Allied Social Science Associations meetings (January 2008) "How Much Do People Really Work in the New Economy?" (with Harley Frazis).

NBER/CRIW conference on Labor in the New Economy (November 2007) "How Much Do People Really Work in the New Economy?" (with Harley Frazis).

International Association for Time Use Research (October 2007) "How Does Employment Affect the Timing of Time with Children?" (with Dori Allard).

International Association for Time Use Research (October 2007) "How Much Do People Really Work in the New Economy?" (with Harley Frazis).

IZA Topic Week - Nonmarket Time in Economics (June 2007) "How Does Employment Affect the Timing of Time with Children?"

NBER-CRIW Pre-Conference (May 2007) "How Much Do People Really Work in the New Economy?"

Western Michigan University (February 2007) "The Time Use of Nonworking Men" Sichel Lecture Series on Time Use.

Allied Social Science Associations meetings (January 2007) "How Employment Affect the Timing of Time with Children?"

Southern Economic Association annual meetings (November 2006) "Secondary Childcare in the ATUS: What Does It Measure?"

International Association for Time Use Research (August 2006) "Tobit or Not Tobit?"

International Association for Time Use Research (August 2006) "Secondary Childcare in the ATUS: What Does It Measure?"

American Economic Association annual meetings (January 2006) "What Do Male Nonworkers Do? Evidence from the American Time Use Survey."

**PROFESSIONAL AFFILIATIONS**

Member, Conference on Research on Income and Wealth (CRIW) 2011-
Research Fellow, Institute for the Study of Labor (IZA) 2008-

## REFEREEING

*American Economic Review*
*Journals of Gerontology*
*International Economic Review*
*Journal of Public Economic Theory*
*Economics of Education Review*
*Demography*
*Journal of Population Economics*
*Social Science Research*
*|Journal of Time Use Research*
*Journal of Labor Economics*
*Southern Economic Journal*
*Journal of Public Economics*
*Journal of Applied Econometrics*
*Industrial and Labor Relations Review*
*Review of Economics of the Household*
*Economics and Human Biology*
*Annales of Economie et Statistique*
*Journal of Productivity Analysis*
*Journal of Policy Analysis and Management*
*LABOUR: Review of Labour Economics and Industrial Relations*
*Journal of Economic and Social Measurement*

## OTHER PROFESSIONAL ACTIVITIES

Program Committee for Perspectives on Time Use in the U.S. Conference (June 2014)

Program Committee for International Perspectives on Time Use Conference (June 2011)

Program Committee for American Time Use Research Conference (June 2009)

Program Committee for International Association for Time Use Research Annual Conference (November 2007)

Program Committee for American Time Use Survey Early Results Conference (December 2005)