

13 January 2023

## CURRICULUM VITAE

### Jeffrey S. Zax

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### Appointments

Department of Economics, University of Colorado at Boulder:  
Associate Chair, Undergraduate Program, August 2006-July 2018, August 2019 to present  
Professor, August 1996 to present  
Associate Professor, August 1990 through August 1996

Department of Economics, The Graduate School and University Center, City University of New York:  
Associate Professor, September 1989 through August 1991  
Assistant Professor, March 1985 through August 1989

Department of Economics, Queens College, City University of New York:  
Associate Professor, September 1989 through August 1991  
Assistant Professor, January 1984 through August 1989  
Lecturer, September 1983 through January 1984

### Education

Ph.D. June, 1984 in Economics, Harvard University

B.A. June, 1976 Magna Cum Laude in Economics, Harvard University

### Papers in Refereed Journals

Zax, Jeffrey S. and Yin He (2016) "The Law of One Price in Chinese factor markets", The Singapore Economic Review, Vol. 61, No. 4, September.

Zax, Jeffrey S. (2013) "Single regression estimates of voting choices when turnout is unknown", Statistics, Politics, and Policy, Vol. 4, Issue 1, 1-20,  
[degruyter.com/view/j/spp.2013.4.issue-1/2151-7509.1051/2151-7509.1051.xml?format=INT](http://degruyter.com/view/j/spp.2013.4.issue-1/2151-7509.1051/2151-7509.1051.xml?format=INT)

Lynch, Devon and Jeffrey S. Zax (2011) "Incidence and substitution in Enterprise Zone Programs: The case of Colorado", Public Finance Review, Vol. 39, No. 2, March, 226-255.

Zax, Jeffrey S. (2005) "The statistical properties and empirical performance of double regression", Political Analysis, Vol. 13, No. 1, January, 57-76.

Mocan, H. Naci, Erdal Tekin and Jeffrey S. Zax (2004) "Demand for medical care in urban China", World Development, Vol. 32, No. 2, February, 289-304.

Li, Haizheng and Jeffrey S. Zax (2003) "Labor supply in urban China", Journal of Comparative Economics, Vol. 31, No. 4, December, 795-817.

Rees, Daniel I., Jeffrey S. Zax and Joshua Herries (2003) "Interdependence in worker productivity", Journal of Applied Econometrics, Vol. 18, No. 5, September/October, 585-604.

Zax, Jeffrey S. (2003) "Residential location theory and the measurement of segregation", Annales d'Economie et de Statistique, Special issue on Discrimination and Unequal Outcomes, Nos. 71/72, July/December, 189-219.

Zax, Jeffrey S. and Daniel I. Rees (2002) "IQ, academic performance, environment and earnings", The Review of Economics and Statistics, Vol. 84, No. 4, November, 600-616.

Zax, Jeffrey S. (2002) "Comment on 'Estimating the extent of racially polarized voting in multicandidate contests' by Bernard Grofman and Michael Migalski", Sociological Methods & Research, Vol. 31, No. 1, August, 73-84.

Lynch, Jim and Jeffrey S. Zax (2000) "The rewards to running: Prize structure and performance in professional road racing", Journal of Sports Economics, Vol. 1, No. 4, November, 323-340.

Zax, Jeffrey S. (1997) "Latent demand for urban housing in the People's Republic of China", Journal of Urban Economics, Vol. 42, No. 3, November, 377-401.

Zax, Jeffrey S. and John F. Kain (1996) "Moving to the Suburbs: Do Relocating Companies Leave Their Black Employees Behind?", Journal of Labor Economics, Vol. 14, No. 3, July, 472-504.

Zax, Jeffrey S. and Mark S. Skidmore (1994) "Property Tax Rate Changes and the Rate of Development", Journal of Urban Economics, Vol. 36, No. 3, November, 314-332.

Zax, Jeffrey S. (1994) "When is a Move a Migration?", Regional Science and Urban Economics, Vol. 24, No. 3, June, 341-360.

Zax, Jeffrey S. (1991) "The Substitution Between Moves and Quits", The Economic Journal, Vol. 101, No. 409, November, 1510-1521.

Zax, Jeffrey S. (1991) "Compensation for Commutes in Labor and Housing Markets", Journal of Urban Economics, Vol. 30, No. 2, September, 192-207.

Ichniowski, Casey and Jeffrey S. Zax (1991) "Right to Work Laws, Free Riders and Unionization in the Local Public Sector", Journal of Labor Economics, Vol. 9, No. 3, July, 255-275.

Zax, Jeffrey S. and Casey Ichniowski (1991) "Excludability and the Effects of Free Riders: Right-to-Work Laws and Local Public Sector Unionization", Public Finance Quarterly, Vol. 19, No. 3, July, 293-315.

- Zax, Jeffrey S. and John F. Kain (1991) "Commutes, Quits and Moves", Journal of Urban Economics, Vol. 29, No. 2, March, 153-165.
- Zax, Jeffrey S. (1990) "Race and Commutes", Journal of Urban Economics, Vol. 28, No. 3, November, 336-348.
- Zax, Jeffrey S. (1990) "Reform City Councils and Municipal Employees", Public Choice, Vol. 64, No. 2, February, 167-177.
- Zax, Jeffrey S. (1990) "Election Methods, Black and Hispanic Council Membership", Social Science Quarterly, Vol. 71, No. 2, June, 339-355.
- Zax, Jeffrey S. and Ichniowski, Casey (1990) "Bargaining Laws and Unionization in the Local Public Sector", Industrial and Labor Relations Review, Vol. 43, No. 4, April, 447-462.
- Ichniowski, Casey and Jeffrey S. Zax (1990) "Today's Associations, Tomorrow's Unions", Industrial and Labor Relations Review, Vol. 43, No. 2, January, 191-208.
- Zax, Jeffrey S. (1989) "Initiatives and Government Expenditures", Public Choice, Vol. 63, No. 3, December, 267-277.
- Zax, Jeffrey S. (1989) "Quits and Race", Journal of Human Resources, Vol. 24, No. 3, Summer, 469-493.
- Zax, Jeffrey S. (1989) "Is There a Leviathan in Your Neighborhood?", The American Economic Review, Vol. 79, No. 3, June, 560-567.
- Zax, Jeffrey S. (1989) "Employment and Local Public Sector Unions", Industrial Relations, Vol. 28, No. 1, Winter, 21-31.
- Zax, Jeffrey S. (1988) "Fringe Benefits, Tax Exemptions and Implicit Subsidies", Journal of Public Economics, Vol. 37, No. 2, November, 171-183.
- Zax, Jeffrey S. (1988) "Wages, Nonwage Compensation and Municipal Unions", Industrial Relations, Vol. 27, No. 3, Fall, 301-317.

### **Papers on Refereed Websites:**

- Zax, Jeffrey S. (2010) "Comment on 'EI extended model and the fear of ecological fallacy', by Baodong Liu", at Sociological Methods and Research website:  
<http://smrjournal.wordpress.com/2010/04/21/comment-on-ei-extended-model-and-the-fear-of-ecological-fallacy-by-baodong-liu-sociological-methods-research-vol-36-no-1-3-25-2007/#more-61>

### **Papers in Edited Volumes**

- Zax, Jeffrey S. (2008) "Interjurisdictional competition under U.S. fiscal federalism: Commentary", in Fiscal Decentralization and Land Policies: Proceedings of the 2007 Land Policies Conference, Ingram, Gregory K, and Yu-Hung Hong, eds., Lincoln Institute of Land Policy, Cambridge, 238-241.

Zax, Jeffrey S. (2007) "Efficiency in China's urban labor markets", Chapter 10 in Urbanization in China: Critical Issues in an Era of Rapid Growth, Song, Yan and Chengri Ding, eds., Lincoln Institute of Land Policy, Cambridge, 209-234.

Zax, Jeffrey S. (2003) "Housing reform in urban China", in How Far Across the River? Chinese Policy Reform at the Millenium, Hope, Nicholas C., Dennis Tao Yang and Mu Yang Li, editors, Stanford University Press, Palo Alto, 313-350.

Zax, Jeffrey S. (2000) "The evolution of entrepreneurial activity in urban China, 1988-1995", in China's Labor Market and Problems of Employment, Wang, Yuguo and Aimin Chen, editors, The Southwest University of Finance and Economics Press, Chengdu, China, 481-500 (Chinese).

Yang, Guifang Lynn, and Jeffrey S. Zax (2000) "Gender-linked income differences in transitional urban China", in China's Labor Market and Problems of Employment, Wang, Yuguo and Aimin Chen, editors, The Southwest University of Finance and Economics Press, Chengdu, China, 566-584 (Chinese).

Li, Haizheng, and Jeffrey S. Zax (2000) "Economic transition and labor supply in urban China", in China's Labor Market and Problems of Employment, Wang, Yuguo and Aimin Chen, editors, The Southwest University of Finance and Economics Press, Chengdu, China, 217-233 (Chinese).

Zax, Jeffrey S. (1998) "Immigration, race and space", in Help or Hindrance? The Economic Implications of Immigration for African Americans, Daniel S. Hamermesh and Frank D. Bean, eds., Russell Sage Foundation, 222-252.

Zax, Jeffrey S. (1988) "The Effects of Jurisdiction Types and Numbers on Local Public Finance", in Fiscal Federalism: Quantitative Studies, Harvey S. Rosen, ed., National Bureau of Economic Research and the University of Chicago Press, 79-103.

Zax, Jeffrey S. and Casey Ichniowski (1988) "The Effects of Public Sector Unions on Payroll, Employment and Municipal Budgets", in When Public Sector Workers Unionize, Richard B. Freeman and Casey Ichniowski, eds., National Bureau of Economic Research and the University of Chicago Press, 323-361.

Freeman, Richard B., Casey Ichniowski and Jeffrey S. Zax (1988) "Collective Organization in the Public Sector", in When Public Sector Workers Unionize, Richard B. Freeman and Casey Ichniowski, eds., National Bureau of Economic Research and the University of Chicago Press, 365-398.

## **Published Book Reviews**

Zax, Jeffrey S. (2003) "Review of Urban Inequality: Evidence from Four Cities", edited by Alice O'Connor, Chris Tilley and Lawrence D. Bobo, Journal of Economic Literature, Vol. 41, No. 1, March, 238.

## **Papers Under Journal Review**

## Working Papers

“Spatial disequilibrium, provincial and individual inequality in urban China”, January 2020.

“Alphabetism: The effects of surname initial and the risk of being otherwise undistinguished”, with Alexander S. Cauley, November 2018.

“Sixty years after Goodman's identity: Its unrecognized implications for regression-based inference”, October 2018.

“The effects of IQ, high school effort and high school appearance on employment, income, marriage, spouse's income and fertility at age 35”, with Daniel I. Rees, June 2014.

“Minimum standards of living, income and positional concerns in mid-reform urban China”, with Kirby Rattenbury, January 2013.

“Housing allocations, welfare and inequality in early and mid-reform urban China”, February 2012.

“The effects of congestion on the propensities to telecommute and to commute off-peak”, with Ryan Hall, November 2010

“The economic effects of comparable worth policies”, with Kristyn N. Ulrich, June 2008.

“Comment on ‘Bloc voting, polarization, and the Panethnic Hypothesis: The case of Little Saigon’, by Christian Collet”, October 2007.

“Levels and changes in residential segregation, measured correctly”, with John Gardner, October 2004.

“Do households vote with their feet?”, with Valeriy D. Gauzhstein, July 2004.

“Commodification of urban Chinese housing in mid-reform”, July 2004.

Lynch, James G. and Jeffrey S. Zax, “The effects of prizes on contestant selection and performance: The case of Arabian horse racing”, November 2003.

“Permanent, transitory and life-cycle inequality”, October 2002.

“Marriage, divorce, income and military marriage incentives”, with David W. Flueck, April 2002.

“Economic transition and the labor market in China” with Haizheng Li, March 2002.

“Demand, supply and race in small business credit markets”, December 2001.

“Bank credit and minority-owned small businesses in metropolitan Denver”, November 2000.

“Gender-linked income differences in transitional urban China” with Guifang Lynn Yang, June 1999.

“The evolution of entrepreneurial activity in urban China, 1988-1995”, May 1999.

“ERISA, pension diversification and the welfare of workers and retirees”, with Mehmet M. Tutuncu, February 1998.

“Fertility behavior and the absence of ‘missing females’ in urban China”, with Kathleen Greer Rossman, September 1997.

“Compensation for holding up half the sky? Gender-based income differences in urban China” with Lynn Yang, October 1996.

“Investment in education in urban China”, May 1996.

“Analysis of client treatments for Colorado Child Welfare Service”, with Margaret Irish, February 1996.

“Involvement and reinvolvement: Child abuse and neglect in Colorado”, with Natalie Mullis, February 1996.

“Human capital in a workers' paradise: Returns to education in urban China”, August 1995.

“Maltreatment case loads and county characteristics in Colorado”, with Margaret Irish, May 1995.

“The stability of jobs in the local public sector”, with Jonathan S. Leonard, April 1995.

“When should economics majors take the introductory statistics course?”, with Douglas L. Jeavons and Larry D. Singell, January 1994.

“The effects of nonwage compensation on measured income distribution, income tax progressivity and returns to education”, October 1993.

“Optimal worker portfolios: Pensions, ESOPs and anti-ESOPs”, with Mehmet M. Tutuncu, May 1992.

“The effects of political voice on union formation among municipal employees”, November 1990.

“Progressive taxation and regressive subsidies: Income tax exemptions and nonwage compensation”, November 1989.

“The economic effects of function numbers in local government tiers”, July 1988.

## **Textbook**

Introductory Econometrics: Intuition, Proof and Practice, (2011), Stanford University Press, Palo Alto, CA.

Solutions to Introductory Econometrics: Intuition, Proof and Practice, (2011), <http://www.sup.org/econometrics/>.

## Service as Editor and Referee

Editorial Board member, Journal of Urban Management, April 2010-present.

Coeditor, Chinese Economic Review, January 2005-February 2010.

Recipient, 2009 ‘Excellence in Refereeing Award’, American Economic Review.

Referee for Journals: The American Economic Review, The American Economic Review: Insights, Asian Economic Journal, Asia-Pacific Journal of Regional Science, Cambridge Journal of Regions, Economy and Society, Comparative Economic Studies, Contemporary Policy Issues, Economic Inquiry, Economic Journal, Economic Modeling, Economica, Economics Letters, Economics of Governance, Economics of Transition, Environment and Planning B: Urban Analysis and City Science, European Economic Review, Fiscal Studies, Health Economics, International Economic Review, Industrial and Labor Relations Review, Industrial Relations, International Journal of Business and Economics, Journal of Applied Econometrics, Journal of Comparative Economics, Journal of Demographic Economics, Journal of Development Economics, Journal of Housing Economics, Journal of Human Resources, Journal of Industrial Relations, Journal of Labor Economics, Journal of Law and Economics, Journal of Law, Economics, and Organization, Journal of Management Science and Engineering, Journal of Policy Analysis & Management, Journal of Political Economy, Journal of Public Economics, The Journal of Real Estate Finance and Economics, Journal of Regional Science, Journal of Sports Economics, Journal of the European Economic Association, Journal of Theoretical Politics, Journal of Urban Economics, Labour Economics: An International Journal, National Tax Journal, New Palgrave Dictionary of Economics, Papers in Regional Science, Public Choice, Public Finance Review, Publius, Regional Science and Urban Economics, Regional Science Perspectives, Research in Labor Economics, Review of Economics and Statistics, Review of Income and Wealth, Social Science Quarterly, Sociological Methods & Research, Southern Economic Journal, Urban Affairs Review, Urban Geography, Urban Studies, and the World Bank Economic Review, August 1990 to present.

Referee for Foundations: CERGE-EI, National Science Foundation, Russell Sage Foundation, Research Grants Council of Hong Kong, August 1990 to present.

Referee for book publishers: Oxford University Press, Pearson Education, August 1990 to present.

## Professional Memberships

American Economic Association, Association for Public Policy Analysis and Management, Chinese Economists Society, International Association for Research in Income and Wealth, Midwest Economics Association, North American Regional Science Council, Society for the Study of Economic Inequality, Society of Labor Economists, Southern Economic Association, Urban Economics Association, Western Economics Association International

## Grants

Co-Principal Investigator, “Caseload Characteristics and Evaluation of Specific Colorado Works Programs”, Colorado Department of Human Services, 6/1/2011-11/30/2012.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID", Colorado Department of Transportation, 6/1/2009-9/30/2009.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID", Colorado Department of Transportation, 6/1/2008-9/30/2008.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID", Colorado Department of Transportation, 6/26/2007-6/15/2008.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID", Colorado Department of Transportation, 6/16/2006-6/15/2007.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID and Annual Report", Colorado Department of Transportation, 6/16/2005-6/30/2006.

Principal Investigator, "Colorado Department of Transportation Safety Program Problem ID and Annual Report", Colorado Department of Transportation, 12/8/2004-6/30/2005.

Principal Investigator, "Colorado Department of Transportation Safety Program Annual Report", Colorado Department of Transportation, 11/5/2003-6/30/2004.

Principal Investigator, "Election Cycles, Balanced Budget Requirements and Tax Limitations in State Governments", Council on Research and Creative Work, University of Colorado, 7/1/1991-6/30/1992.

Principal Investigator, "Nonwage Compensation and Enterprise Performance", PSC-CUNY Award #668406, 7/1/1988-6/30/1989.

Principal Investigator, Social Science Research Council Dissertation Fellowship, no. SS-25-83-04, 12/1/1982-2/29/1984.

## **Awards and Honors**

Biography included in Who's Who in Economics, 4<sup>th</sup> Edition.

Biography included in Marquis Who's Who in America, 57<sup>th</sup> and 58<sup>th</sup> editions.

Biography included in Marquis Who's Who in American Education, 6<sup>th</sup> edition.

Biography included in Marquis Who's Who in the East, 23<sup>rd</sup> edition.

Biography included in Marquis Who's Who in Finance and Business, 35<sup>th</sup> edition.

Stanford Calderwood Teaching Excellence Award from the Department of Economics at the University of Colorado at Boulder, May 2000.

Stanford Calderwood Teaching Excellence Award from the Department of Economics at the University of Colorado at Boulder, April 1993.

Fulbright Lecturer at the University of Ghana, Legon, Ghana, January-April 1990.



## **Additional Professional Experience**

Consultant to the Attorney General of Colorado regarding the minority set-asides in State grant programs, March 2021-April 2021.

Consultant to the Attorney General of Colorado regarding the economic character of Colorado's Hospital Provider Fee, March 2018-June 2018.

Consultant to the City of Eastpointe, Michigan, regarding statistical analysis of voting patterns, October 2017-March 2018.

Consultant to the Attorney General of Colorado regarding the effects of restrictions on possession of large-capacity magazines for firearms, February-May 2017.

Consultant to the Attorney General of Colorado regarding the effects of ballot secrecy on the integrity of the electoral system, October-November 2016.

Consultant to the Attorney General of Colorado regarding the effects of state tax and expenditure limitations on state government behavior, September 2014.

Consultant to the Attorney General of Colorado regarding the effects of restrictions on possession of large-capacity magazines for firearms, July 2013-April 2014.

Consultant to the Attorney General of Colorado regarding ethnic composition of inactive voters, July 2012-December 2012.

Consultant to the Attorney General of Arkansas regarding the statistical analysis of voting patterns, March-May 2012.

Consultant to the Attorney General of Colorado regarding compensation and incentives for petition-gatherers, August 2010-May 2012.

Consultant to the Attorney General of Colorado regarding training and work opportunities for disabled inmates, April 2009-October 2010.

Consultant to the Attorney General of Colorado regarding predatory lending practices, February 2009-February 2010.

Consultant to the Attorney General of Arizona regarding the statistical analysis of voting patterns, February-July 2008.

Consultant to the City of Euclid, Ohio, regarding the statistical analysis of voting patterns, March through August 2007.

Consultant to the Colorado Gaming Association, March 2007.

Consultant to the World Bank, May-June 2005.

Consultant to the Attorney of Adams County, April-May 2004.

Consultant to the Attorney General of South Dakota regarding the statistical analysis of voting patterns, March 2002-June 2005.

Consultant to the State of Wyoming Legislative Service Office regarding labor market issues in the educational sector, July 2002-November 2002.

Consultant to the Mountain States Legal Foundation regarding the statistical analysis of voting patterns, April 2002-June 2002.

Consultant to the City of Valdez, Alaska, regarding economic integration and racial block voting, October 2001-December 2001.

Expert witness for the Attorney General, the State of Montana, regarding racial and ethnic block voting, July 2001-November 2001.

Consultant to the Attorney General of South Dakota regarding the statistical analysis of voting patterns, May 2000-October 2000.

Consultant to Attorney General of Colorado regarding the effects of parental notification on adolescent abortions, September 1999-June 2000.

Consultant to Sycare regarding evaluation of community mental health center performance, April 1999-October 1999.

Consultant to BBC Research & Consulting and the State of Colorado Workforce Coordinating Council regarding evaluation of State-sponsored training programs, June 1998- September 1998.

Consultant to the City Attorney of the City and County of Denver regarding the provision of bank credit to small minority-owned businesses, September 1997-August 1998.

Consultant to the Attorney General of Colorado regarding the effects of ballot position on voting behavior, March 1997-May 1998.

Consultant to the Attorney General of Montana regarding racial and ethnic block voting, November 1996-August 1998.

Consultant to BBC Research & Consulting and the State of Colorado Economic Development Commission regarding the State's strategic plan for economic development, September 1996-February 1997.

Consultant to the Attorney General of Michigan regarding variations in impacts of pollutants across ethnic groups, July 1996-May 1997.

Consultant to the Forward Estes Park Foundation regarding local economic development issues, May 1996-September 1996.

Consultant to the Department of Health Care Policy and Financing, Office of Public and Private Initiatives, the State of Colorado, regarding the evaluation of hospital performance, March 1996-August 1996.

Consultant to the Department of Human Services, Office of Self Sufficiency Programs, the State of Colorado, regarding the evaluation of microentrepreneur training programs, January-September 1996 and January-August 1997.

International Scholar appointment with the Asian Development Bank, 1995-1997.

Principal contractor to the Piton Foundation for statistical analysis of child abuse incidence and treatment in Colorado, September 1994-February 1996.

Consultant to the Attorney General of Colorado regarding racial block voting in state legislative elections, October 1993-June 1994.

Instructor in Introductory Mathematics for Economists, at the Economics Institute, Boulder, Colorado, August 1993.

Principal Investigator, review of econometric literature regarding the economic implications of health care reform for the Office of the Governor of the State of Colorado, April- July 1993.

Instructor in Masters' level Mathematics for Economists at the Economics Institute, Boulder, Colorado, March-May 1993.

Consultant to the Official Unsecured Creditors' Committee of Castle Pines North Metropolitan District, Colorado, regarding the effects of property tax rate increases on the rate of residential development, June 1992-May 1993.

Advisor to the Cost and Quality Study of Early Care and Education project, at the University of Colorado at Denver Department of Economics, Spring 1992-Fall 1994.

Instructor in Intermediate Microeconomics at the Economics Institute, Boulder, Colorado, May 1992.

Instructor in Intermediate Microeconomics and Introductory Mathematics for Economists, for the Economics Institute's program at the Ministry of Finance, Jakarta, Indonesia, May 1991.

Consultant to the Del Valle School District, Texas, regarding the effects of different districting schemes on minority membership of the School Board, October 1990-February 1991.

Instructor in applied econometric analysis, Institute of Economics, Chinese Academy of Social Sciences, Beijing, People's Republic of China, December 1988 and June 1990.