

# Holger Sieg

Professor of Economics  
University of Pennsylvania  
Department of Economics

June 23, 2022

## Previous Positions

2010 - 2020	The Joseph M. Cohen Term Professor of Economics, Department of Economics, University of Pennsylvania.
2009 - 2010	The Friends of Allan H. Meltzer Professor of Economics, Tepper School of Business, Carnegie-Mellon University.
2004 - 2009	Professor of Economics, Tepper School of Business, Carnegie-Mellon University.
2001 -2004	Associate Professor with Indefinite Tenure, Tepper School of Business, Carnegie-Mellon University.
1996 - 2001	Assistant Professor, Department of Economics, Duke University.

## Education

1996	Ph.D., Economics, Carnegie-Mellon University.
1994	MSIA, Political Economy, Carnegie-Mellon University.
1992	Diplom, Economics, University of Bonn.
1986	Abitur, Hellweg Schule, Bochum-Wattenscheid.

## **Other Affiliations**

- 2011 - Faculty Research Associate, National Bureau of Economic Research.
- 2000 - 2011 Faculty Research Fellow, National Bureau of Economic Research.
- 2014 - Research Affiliate, Graduate School of Education, University of Pennsylvania.
- 2011 - Visiting Scholar, Federal Reserve Bank of Philadelphia.
- 2010 - Research Associate, Population Studies Center, University of Pennsylvania.
- 2007 - Faculty Research Fellow, CESifo.

## **Editorial Roles**

- 2016 - Editorial Board, Journal of Economic Literature.
- 2011 - 2020 Editorial Board, International Economic Review.
- 2012 - 2015 Editorial Board, Journal of Urban Economics.
- 2007 - 2011 Editorial Board, American Economic Review.
- 2006 - 2011 Associate Editor, European Economic Review.
- 2006 - 2010 Associate Editor, Journal of Public Economics.
- 2001 - 2006 Associate Editor, Journal of Business and Economic Statistics.

## Refereed Publications

Sieg, H., Yoon, C. and J. Zhang (2023). "Migration Controls, Fiscal Externalities, and Access to Educational Opportunities in China." *International Economic Review*, 64 (1), forthcoming.

Sieg, H. and C. Yoon (2022). "Electoral Accountability and Control in U.S. Cities," *Journal of Political Economy*, 130 (11), forthcoming.

Epple, D., Quintero, L. and H. Sieg (2020), "A New Approach to Estimating Hedonic Equilibrium Models for Metropolitan Housing Markets." *Journal of Political Economy*, 128 (3), 948-983.

Sieg, H. and C. Yoon (2020), "Waiting for Affordable Housing in NYC," *Quantitative Economics*, 11 (1), 277-313.

Chirico, M., Inman, R., Loeffler C., McDonnald, J. and H. Sieg (2019), "Detering Property Tax Delinquency: Evidence from A Field Experiment," *National Tax Journal*, 72(3), 479-506.

Coen-Pirani, D. and H. Sieg (2019), "The Impact of the Tax Cut and Jobs Act on the Spatial Distribution of High Productivity Households and Economic Welfare." *Journal of Monetary Economics*, 105, 44-71.

Epple, D., Romano, R., Sarpca, S., Sieg, H. and M. Zaber (2019), "Market Power and Price Discrimination in the U.S. Market for Higher Education," *Rand Journal of Economics*, 50 (1), 201-225.

Sieg, H. and Y. Wang (2018), "Education, Career, and Marriage Choices of Female Lawyers." *European Economic Review*, 109, 124-147.

Brinkman J., Coen-Pirani D. and H. Sieg (2018), "The Political Economy of Municipal Pension Funding." *A EJ-Macroeconomics*, 10 (3), 215-46.

Epple, D., Jha, A. and H. Sieg (2018), "The Superintendent's Dilemma: Managing School District Capacity as Parents Vote with Their Feet," *Quantitative Economics*, 9(1), 483-520.

Sieg, H. and C. Yoon (2017), "Estimating Dynamic Games of Electoral Competition to Evaluate Term Limits in U.S. Gubernatorial Elections," *American Economic*

*Review*, 107 (7), 1824-57.

Cestau, D., Epple, D. and H. Sieg (2017), "Admitting Students to Selective Education Programs: Merit, Profiling, and Affirmative Action." *Journal of Political Economy*, 125 (3), 761-797.

Epple, D., Romano, R., Sarpca, S. and H. Sieg (2017), "A General Equilibrium Analysis of State and Private Colleges and Access to Higher Education in the U.S." *Journal of Public Economics*, 155, 164-178.

Chirico, M., Inman, R., Loeffler C., McDonnald, J. and H. Sieg (2016), "An Experimental Evaluation of Strategies to Increase Property Tax Compliance: Free Riding in the City of Brotherly Love," *Tax Policy and the Economy*, 30 (1), 129-161.

Brinkman J., Coen-Pirani D. and H. Sieg (2015), "Firm Dynamics in an Urban Economy." *International Economic Review*, 56 (4), 1135-64.

Holmes, T. and H. Sieg (2015), "Structural Estimation in Urban Economics." in: *Handbook of Regional and Urban Economics 5A.*" G. Duranton, V. Henderson and W. Strange (eds.), North Holland, 69-114.

Engberg, J, Epple, D., Imbrogno, J., Sieg, H. and R. Zimmer (2014), "Evaluating Education Programs That Have Lotteried Admission and Selective Attrition," *Journal of Labor Economics*, 32 (1), 27-63.

Davis, B. Engberg, J, Epple, D., Sieg, H. and R. Zimmer (2013), "Bounding the Retention Effects of a Gifted Program Using a Modified Regression Discontinuity Design," *Annals of Economics and Statistics*, 111-112, 10-34.

Sieg, H. and Y. Wang (2013), "The Impact of Unions on Municipal Elections and Urban Fiscal Policies," *Journal of Monetary Economics*, 60 (5), 554-567.

Geyer, J. and H. Sieg (2013), "Estimating a Model of Excess Demand for Public Housing," *Quantitative Economics*, 4 (3), 483-513.

Sieg, H. and J. Zhang (2012a), "The Effectiveness of Private Benefits in Fundraising." *International Economic Review*, 53 (2), 349-374.

Sieg, H. and J. Zhang (2012b), "The Importance of Managerial Capacity in Fundraising: Evidence from Land Conservation Charities," *International Journal of Industrial*

*Organization*, 30 (6), 724-734.

Epple, D., Romano, R. and H. Sieg (2012), "The Intergenerational Conflict over the Provision of Local Education," *Journal of Public Economics*, 96, 3-4, 255-268.

Epple, D., Gordon, B. and H. Sieg (2010), "A New Approach to Estimating the Production Function for Housing," *American Economic Review*, 100 (3), 905-924.

Epple, D., Peress, M. and H. Sieg (2010), "Identification and Semiparametric Estimation of Equilibrium Models of Local Jurisdictions." *AEJ-Microeconomics*, 2 (4), 195-220.

Epple, D., Gordon, B. and H. Sieg (2010), "Drs. Mills and Muth meet Dr. Tiebout: Integrating Location-Specific Amenities into Multi-Community Equilibrium Models," *Journal of Regional Science*, 50 (1), 381-400.

Epple, D., Romano R. and H. Sieg (2008), "Diversity and Affirmative Action in Higher Education." *Journal of Public Economic Theory*, 10 (4), 474-501.

Coppejans, M., Gilleskie, D., Sieg, H. and K. Strumpf (2007), "Consumer Demand under Price Uncertainty: Empirical Evidence from the Market for Cigarettes", *Review of Economics and Statistics*, 89 (3), 510-521.

Arcidiacono, P., Sieg, H. and F. Sloan (2007), "Living Rationally under the Volcano? Heavy Drinking and Smoking Among the Elderly." *International Economic Review*, 48 (1), 37-65.

Epple, D., Romano R. and H. Sieg (2006), "Admission, Tuition, and Financial Aid Policies in the Market for Higher Education." *Econometrica*, 74 (4), 885-928.

Epple, D., Romano R., Sarpça, S. and H. Sieg (2006), "Profiling in Bargaining over College Tuition." *Economic Journal*, 116 (November), 459-79.

Calabrese, S., Epple, D., Romer, T. and H. Sieg (2006), "Local Public Good Provision: Peer Effects, Voting, and Mobility" *Journal of Public Economics*, 90 (6-7), 959-981.

Coppejans, M. and H. Sieg (2005), "Kernel Estimation of Average Derivatives and Differences." *Journal of Business and Economic Statistics*, 23(2), 211-225.

Sieg, H., Smith, V. K., Banzhaf, S. and R. Walsh (2004), “Estimating the General Equilibrium Benefits of Large Changes in Spatially Delineated Public Goods.” *International Economic Review*, 45 (4), 1047-1077.

Smith, V. K., Sieg, H., Banzhaf, S. and R. Walsh (2004), “General Equilibrium Benefits for Environmental Improvements: Projected Ozone Reductions for the Los Angeles Air Basin.” *Journal of Environmental Economics and Management*, 47, 559-584.

Epple, D., Romano R. and H. Sieg (2003), “Peer Effects, Financial Aid, and Selection of Students into Colleges.” *Journal of Applied Econometrics*, 18 (5), 501-525.

Sieg, H., Smith, V. K., Banzhaf, S. and R. Walsh (2002), “Interjurisdictional Housing Prices in Locational Equilibrium.” *Journal of Urban Economics*, 52, 131-153.

Auten, G., Sieg, H. and C. Clotfelter (2002), “Charitable Giving, Income and Taxes: An Analysis of Panel Data.” *American Economic Review*, 92 (1), 371-382.

Epple, D., Romer, T. and H. Sieg (2001), “Interjurisdictional Sorting and Majority Rule: An Empirical Analysis.” *Econometrica*, 2001, 69 (6), 1437-1466.

Sieg, H. (2000), “Estimating a Bargaining Model with Asymmetric Information: Evidence from Medical Malpractice Disputes,” *Journal of Political Economy*, 108 (5), 1006-1021.

Sieg, H. (2000), “Estimating a Dynamic Model of Household Choices in the Presence of Income Taxation.” *International Economic Review*, 41 (3), 637-668.

Epple, D. and H. Sieg (1999), “Estimating Equilibrium Models of Local Jurisdictions.” *Journal of Political Economy*, 107 (4), 645-681.

Miller, R. and H. Sieg (1997), “A Microeconomic Comparison of Household Behavior between Countries.” *Journal of Business and Economic Statistics*, 1997, 15 (2), 237-253.

## Working Papers

Bang, M., Gao, W., Postlewaite, A. and H. Sieg. “Using Monotonicity Restrictions to Identify Models with Partially Latent Covariates.” June 2022.

Cestau, D., Epple, D., Romano, R., Sieg, H. and C. Wojtaczek (2022), “An Empirical Strategy for Colleges To Assess Their Effectiveness in Educating a Diverse Student Body.” June 2022.

## Book

Sieg, H. (2020) “Urban Economics and Fiscal Policy,” *Princeton University Press*. ISBN: 9780691190846.

## Edited Special Edition of a Journal

Sieg, H. (Ed.) (2015). “Estimation of Dynamic Stochastic Models in Empirical Microeconomics: In Honor of Kenneth I. Wolpin.” *International Economic Review*, Volume 56, 2.

## Other Publications

Epple, D., Romano R. and H. Sieg (2002), “On the Demographic Composition of Colleges and Universities in Market Equilibrium.” *American Economic Review: Papers and Proceedings*, 92 (3), 310-314.

Sieg, H., Smith, V. K., Banzhaf, S. and R. Walsh (1999), “The Role of Optimizing Behavior in Willingness to Pay Estimates for Air Quality.” *American Journal of Agricultural Economics: Proceedings*, 81(5), 1112-1117.

Sieg, H. (1999), “An Empirical Analysis of Income Taxation and Labor Supply in Germany.” *Vierteljahrszeitschrift für Wirtschaftsforschung*, 1999, 68 (2), 243-248.

## Fellowships and Grants

NSF SES “Assessing Student Abilities, Measuring Skill Acquisition, and Enhancing Value Added for Disadvantaged Students in Higher Education,” 8/14/2017-8/13/2020, \$445,717, (with D. Epple and R. Romano).

NSF SES-1355892, “Modeling the U.S. Market for Higher Education and Evaluating Public Funding Policies: Theory and Estimation,” 4/15/2014-3/31/2018, \$547,822 (with D. Epple and R. Romano).

Wharton Public Policy Initiative Grant, “Improving Property Tax Compliance in Philadelphia,” 2015, \$23,000 (with Robert Inman, Charles Loeffler, and John MacDonald).

NSF SES-0958705, “Life Cycle Locational Choices, Voting, and Fiscal Federalism: Theory and Estimation,” 3/14/2010-3/13/2014, \$443,568 (with D. Epple and R. Romano).

IES R305D090016, “Estimation and Inference in Education Research when Actions by Participants Impact Validity and Availability of Data,” 2009-2012. \$963,626 (with Dennis Epple, John Engberg and Ron Zimmer)

IES R305A070117, “Determinants of Student Outcomes in an Urban School District: Educational Interventions and Family Choices,” 2007-2012 \$2,069,749 (with Dennis Epple, Brian Gill, John Engberg and Ron Zimmer)

NSF SBR-0617844, “Household Life Cycle Location Choices and the Dynamics of Metropolitan Communities,” 6/30/2006-6/29/2009, \$344,745 (with D. Epple and R. Romano).

NSF SBR-0338832, “Collaborative Research on Higher Education and Public Policy in General Equilibrium,” \$126,607, 6/30/2004-6/30/29/2007, (with D. Epple).

NSF SBR-0111630, “Local Spillovers, Externalities and Sorting of Households by Race and Income in Locational Equilibrium.” \$236,648, 9/30/2001-9/29/2004.

Alfred P. Sloan Foundation, Research Fellowship, \$40,000, 2001-2003.

EPA R826609-0, “The Role of Locational Equilibria and Collective Behavior in Mea-



asuring the Benefits of Air Pollution Policies.” (with V. K. Smith) \$200,000, 2000-2003.

NIH-NIAAA R01 AA12162-0, “Determinants and Costs of Alcohol Abuse Among the Elderly and Near-Elderly.” (with F. Sloan), \$750,222, 1998-2002.

NSF SBR- 9808951, “An Econometric Approach for Evaluating Spatial Equilibrium Models.” \$154,739, 1998-2001.

Studienstiftung des deutschen Volkes, Dissertation Fellowship, 1995-1996.

William Larimer Mellon Foundation, Dissertation Fellowship, 1994-1995.

John M. Olin Foundation, Dissertation Fellowship, 1992-1994.

Studienstiftung des deutschen Volkes, Fellowship, 1989-1991.

## Teaching and Education

### Teaching Awards

2011 Kravis Teaching Award for Tenured Faculty in Economics.

### Courses Taught

**Undergraduate Students:** Econometrics, Political Economy, Public Economics, Senior Research Project in Economics, Urban Fiscal Policy, Independent Study.

**Master Students:** Public Economics.

**Ph.D. Students:** Econometrics, Empirical Industrial Organization, Mathematics for Economists, Political Economy, Public Economics, Topics in Empirical Microeconomics, Urban Economics.

### Undergraduate Honor Thesis Supervision

Maxwell Egan (NERA), Brandi Tish (Lehmann Brothers), Akshaya Jha (Stanford Ph.D. Program), Thais Canedo (U.S. Navy), Lalita Clozel (Washington Center for Political Journalism Fellow at LA Times), Amrit Malothra (MIT, Graduate School), Jonathan Korn (Consumer Protection Agency), A.J. Rossi (Graham Partners), Spencer Kersh (JLL Real Estate), Nathan Ausubel (Board of Governors), Marilyn Pereboom (TD Securities).

## Doctoral Student Supervision

**University of Pennsylvania Students:** Michela Tincani (University College London, Committee Member), Chamna Yoon (Baruch College, Committee Member), Naoki Aizawa (University of Minnesota, Committee Member), Hui Li (Carnegie Mellon University, Chair), Yumi Koh (Singapore Management University, Chair), Devin Reilly (Analysis Group, Chair), Yanhao Wei (University of Southern California, Chair), Yu Wang (Ryerson University, Chair), Pau Perreira (Amazon, Chair), Ami Ko (Georgetown, Committee Member), Michael Chirico (Grab Inc, Chair), Alberto Ciancio (Penn Population Studies Center Post-Doc, Committee Member), Gokhan Oz (Analysis Group, Chair), Maliik Hossain (Federal Reserve Bank of Philadelphia, Chair), Gabrielle Vasey (Harvard University Post-Doc, Committee Member), Marc Folch (University of Chicago, Post-Doc, Committee Member), Minji Bang (City University of Hong Kong, Co-Chair), Sarah George (Microsoft, Chair), Rui Yu (Brattle Group, Committee Member), Andrew Arnold (Chair), Lucie d’Heude (Chair), Jungsoo Yoo (Chair), Elsie Peng (Chair).

**Carnegie-Mellon Students:** Sinan Sarpça (Koç University, Co-Chair), Michael Peress (University of Rochester, Co-Chair), Brett Gordon (Columbia University, Advisor & Committee Member), Jeff Brinkmann (Federal Reserve Bank of Philadelphia, Co-Chair), Judy Geyer (Abt Associates, Co-Chair), Billie Davis (Carnegie Mellon, Post Doc, Co-Chair), Dario Cestau (IE Business School in Madrid, Committee Member), Jason Imbrogno (University of North Alabama, Co-Chair), Luis Quintero (Johns Hopkins University, Co-Chair).

**Duke Students:** Nisha Arunalitake (Sri Lanka Institute of Policy Studies, Committee Member), Spencer Banzhaf (RFF, Committee Member), Derek Brown (Research Triangle Institute, Committee Member), Dandan Cheng (World Bank, Committee Member), William Choi (Micronomics, Committee Member), Shin-Yi Chou (Lehigh University), Roger von Haefen (BLS, Committee Member), Randy Walsh (University of Colorado at Boulder, Committee Member).

**Students from other Universities:** George Gayle (Carnegie Mellon, Committee Member), Wayne-Roy Gayle (University of Virginia, Advisor & Committee Member), Jipeng Zhang (Nanyang Technological University, Co-Chair).

## Organization of Conference

Organizing Committee, 16th Conference of German Economists Abroad, Frankfurt School of Finance, 2019.

Organizing Committee, 15th Conference of German Economists Abroad, University

of Bonn, 2018.

Organizing Committee, 14th Conference of German Economists Abroad, Bundesbank in Frankfurt, 2017.

Organizing Committee, 13th Conference of German Economists Abroad, DIW in Berlin, 2016.

Organizing Committee, Twelfth Conference of German Economists Abroad, LMU in München, 2015.

Program Committee, European Summer Meeting of the Econometric Society, University of Mannheim, 2015.

Organizing Committee, Eleventh Conference of German Economists Abroad, Weltwirtschaftsinstitut in Kiel, 2014.

Program Committee, North American Summer Meeting of the Econometric Society, University of Minnesota, June 2014.

Organizing Committee, Tenth Conference of German Economists Abroad, University of Konstanz, 2013.

Organizing Committee, Ninth Conference of German Economists Abroad, University of Cologne (Köln), 2012.

Organizing Committee, Eighth Conference of German Economists Abroad, European School of Management in Berlin, 2011.

Organizing Committee, Seventh Conference of German Economists Abroad, Johann Wolfgang Goethe University in Frankfurt, 2010.

Organizing Committee, Sixth Conference of German Economists Abroad, Ruprecht-Karls-University in Heidelberg, 2009.

Program Committee, Fourth Annual Utah Winter Business Economics Conference, University of Utah, February 2009.

Organizing Committee, North American Meeting of the Econometric Society, Carnegie Mellon University, June 2008.

Organizer, Advances in Theory Based Estimation; A Conference in Honor of the 25th Anniversary of Hansen and Singleton (1982), Tepper School of Business, September 2007.

Co-Organizer of a Session in “Theory Based Estimation” at the Stanford Institute for Theoretical Economics (SITE) 2006. (with Frank Wolak)

Organizing Committee, Public Economic Theory (PET) Conference 2003.

Co-Chair of Organizing Committee, Triangle Econometrics Conference 2000.

Chair of Organizing Committee, Triangle Applied Micro Conference 1999.

Co-Chair of Organizing Committee, Hotelling Triangle Econometrics Conference 1999.

## **Service at the University of Pennsylvania**

Department of Economics:

Member of the Personnel Committee, since 2022.

Placement Officer, since 2021.

Member of the Executive Committee of the Undergraduate Program, 2017-2021.

Associate Chair of the Department, 2017-20.

Undergraduate Chair, 2017-20.

Member of the Executive Committee of the Graduate Program, 2014-17.

Co-Chair of the Admission Committee, 2016-17.

Senior Search in Empirical Microeconomics, 2014-16.

Co-Chair of the Junior Search Committee, 2010-16.

Diversity Liason to Dean Annette Laureau, 2015-16.

Member of the Honors Thesis Committee, 2010-14.

School of Arts and Science:

Member, Undergraduate Council, 2017-2020.

Strategic Planning Working Group, "Learning, Culture, and Social Change," 2013-14.

Curriculum Committee 2010-11.

University:

Pre-Major Advisor, 2011-2015.

Elected Representative, Faculty Senate Executive Committee, 2014-16.