CHARLES F. MANSKI

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Citizenship: U.S.A. Family Status: Married, two children **Birth**: 1948

Education

Massachusetts Institute of Technology, Ph.D. in Economics, 1973. Massachusetts Institute of Technology, B.S. in Economics, 1970. Boston Latin School, Diploma, 1966.

Present Position

Department of Economics and Institute for Policy Research, Northwestern University Board of Trustees Professor in Economics, from 1997. Chair, Department of Economics, 2007-10.

Previous Positions

Department of Economics, The University of Wisconsin-Madison

Hilldale Professor 1993-98; Wolfowitz Professor 1989-93; Professor, 1983-89;

Director, Institute for Research on Poverty, 1988-91.

Department of Economics, The Hebrew University of Jerusalem, Associate Professor, 1979-83.

School of Urban and Public Affairs, Carnegie-Mellon University

Associate Professor, 1977-80; Assistant Professor, 1973-77.

Adjunct and Visiting Positions

Schaeffer Center for Health Policy and Economics, USC, Quintiles Senior Fellow from 2016.

Department of Economics, Hebrew University of Jerusalem, Fellow from 2003.

Cemmap, Institute for Fiscal Studies, London, International Fellow from 2001.

Department of Statistics, Northwestern University, Professor by Courtesy, from 1998.

National Bureau of Economic Research, Research Associate from 1983.

Department of Economics, University College London, Leverhulme Visiting Professor 2011. Santa Fe Institute, External Faculty, 1997-2003.

Center for Advanced Study in the Behavioral Sciences, Stanford University, Fellow, 1992-93.

Center for Operations Research and Econometrics, Catholic University of Louvain,

Visiting Professor, November 1990.

Department of Econometrics, University of Amsterdam, Visiting Professor, January 1983.

Department of Economics and Department of Civil Engineering, MIT

Visiting Associate Professor, Fall 1982 - Spring 1983.

Bank of Israel, Consultant, 1980-82.

Falk Institute for Economic Research in Israel, Research Associate 1980 - 95.

Kennedy School of Government, Harvard University, Visiting Research Fellow, Fall 1978.

Cambridge Systematics Inc., Senior Associate, 1978-83.

Department of Economics, University of California at Berkeley,

Visiting Assistant Professor, Winter-Spring 1976.

Books

Public Policy in an Uncertain World: Analysis and Decisions, Cambridge: Harvard University Press, 2013.

Identification for Prediction and Decision, Cambridge: Harvard University Press, 2007.

Social Choice with Partial Knowledge of Treatment Response, Princeton: Princeton University Press, 2005.

Partial Identification of Probability Distributions, New York: Springer-Verlag, 2003.

Identification Problems in the Social Sciences, Cambridge: Harvard University Press, 1995.

Analog Estimation Methods in Econometrics, London: Chapman and Hall, 1988.

College Choice in America, with D. Wise, Cambridge: Harvard University Press, 1983.

Edited Volumes

Informing America's Policy on Illegal Drugs: What We Don't Know Keeps Hurting Us, Editor with J. Pepper and C. Petrie, Washington, D.C.: National Academies Press, 2001.

Assessment of Two Cost-Effectiveness Studies on Cocaine Control Policy, Editor with J. Pepper and Y. Thomas, Washington, D.C.: National Academies Press, 1999.

Evaluating Welfare and Training Programs, Editor with I. Garfinkel, Cambridge: Harvard University Press, 1992.

Structural Analysis of Discrete Data with Econometric Applications, Editor with D. McFadden, Cambridge: M. I. T. Press, 1981.

Edited Journal Issues

Measurement and Analysis of Subjective Expectations, Editor with C. Bellemare, Journal of Applied Econometrics, Vol. 26, No. 3, 2011.

Economics to Econometrics: Contributions in Honor of Daniel L. McFadden, Editor with W. Newey, International Economic Review, Vol. 48, No. 4, 2007, also available in book form, 2008.

Profiling: General Issues and Case Studies, Editor, The Economic Journal, Vol. 116, No. 515, 2006.

Principles of Econometrics, Editor with A. Goldberger, Journal of Econometrics, Vol. 95, No. 2, 2000.

Elicitation of Preferences, Editor with B. Fischhoff, *Journal of Risk and Uncertainty*, Vol. 19, No. 1/3, 1999; also published in book form by Kluwer Academic Publishers, 2000.

Attrition in Longitudinal Surveys, Editor with J. Altonji, Journal of Human Resources, Vol. 33, No. 2, 1998.

Nonparametric and Semiparametric Approaches to Discrete Response Analysis, Editor with W. Haërdle, Journal of Econometrics, Vol. 58, No. 1-2, 1993.

Published Articles: Econometrics and Statistics

"Sufficient Trial Size to Inform Clinical Practice," with A. Tetenov, *Proceedings of the National Academy of Sciences*, Vol. 113, no. 38, 2016, pp. 10518-10523.

"Credible Interval Estimates for Official Statistics with Survey Nonresponse," *Journal of Econometrics*, Vol. 191, 2016, pp. 293-301.

"Identification of Income-Leisure Preferences and Evaluation of Income Tax Policy," *Quantitative Economics*, Vol. 5, No. 1, 2014, pp. 145-174.

"Identification of Treatment Response with Social Interactions," *The Econometrics Journal*, Vol. 16, 2013, pp. S1-S23.

"Random Utility Models with Bounded Ambiguity," in B. Dutta (editor), *Structural Econometrics, Essays in Methodology and Applications*, New Delhi: Oxford University Press, 2010, pp. 272-284.

"Using Elicited Choice Probabilities to Estimate Random Utility Models: Preferences for Electricity Reliability," with A. Blass and S. Lach, *International Economic Review*, Vol. 51, No. 2, 2010, pp. 421-440.

"More on Monotone Instrumental Variables," with J. Pepper, *The Econometrics Journal*, Vol. 12, 2009, pp. S200-S216.

"Cross Level/Ecological Inference," with W. Cho, in H. Brady, D. Collier, and J. Box-Steffensmeier (editors), *Oxford Handbook of Political Methodology*, Oxford: Oxford University Press, 2008, pp. 547-569.

"Skip Sequencing: A Decision Problem in Questionnaire Design," with F. Molinari, *Annals of Applied Statistics*, Vol. 2, No. 1, 2008, pp. 264-285.

"Studying Treatment Response to Inform Treatment Choice," *Annales D'Économie et de Statistique*," 91-92, 2008, pp. 93-105.

"Partial Identification of Counterfactual Choice Probabilities," *International Economic Review*, Vol. 48, No. 4, 2007, pp. 1393-1410.

"Minimax-Regret Treatment Choice with Missing Outcome Data," *Journal of Econometrics*, Vol. 139,No. 1, 2007, pp. 105-115.

"Admissible Treatment Rules for a Risk-Averse Planner with Experimental Data on an Innovation," with A. Tetenov, *Journal of Statistical Planning and Inference*, Vol. 137, No. 6, 2007, pp. 1998-2010.

- "Identification and Estimation of Statistical Functionals Using Incomplete Data," with J. Horowitz, *Journal of Econometrics*, Vol. 132, No. 2, 2006, pp. 445-459.
- "Partial Identification with Missing Data: Concepts and Findings," *International Journal of Approximate Reasoning*, Vol. 39, No. 2-3, 2005, pp. 151-165.
- "Confidence Intervals for Partially Identified Parameters," with G. Imbens, *Econometrica*, Vol. 72, No. 6, 2004, pp. 1845-1857.
- "Statistical Treatment Rules for Heterogeneous Populations," *Econometrica*, Vol. 72, No. 4, 2004, pp. 1221-1246.
- "On the Construction of Bounds in Prospective Studies with Missing Ordinal Outcomes: Application to the Good Behavior Game Trial," with D. Scharfstein and J. Anthony, *Biometrics*, Vol. 60, March 2004, pp. 154-164.
- "Computation of Bounds on Population Parameters when the Data are Incomplete," with J. Horowitz, M. Ponomareva, and J. Stoye, *Reliable Computing*, Vol. 9, No. 6, 2003, pp. 419-440.
- "Treatment Choice Under Ambiguity Induced by Inferential Problems," *Journal of Statistical Planning and Inference*, Vol. 105, No. 1, 2002, pp. 67-82.
- "Identification of Decision Rules in Experiments on Simple Games of Proposal and Response," *European Economic Review*, Vol. 46, No. 4-5, 2002, pp. 880-891.
- "Inference on Regressions with Interval Data on a Regressor or Outcome," with E. Tamer, *Econometrica*, Vol. 70, No. 2, 2002, pp. 519-546.
- "Regressions, Short and Long," with P. Cross, *Econometrica*, Vol. 70, No. 1, 2002, pp. 357-368.
- "Designing Programs for Heterogeneous Populations: The Value of Covariate Information," *American Economic Review Papers and Proceedings*, Vol. 91, No. 2, 2001, pp. 103-106.
- "Imprecise Identification from Incomplete Data," with J. Horowitz, *Proc. 2nd International Symposium on Imprecise Probabilities and Their Applications*, http://ippserv.rug.ac.be/~isipta01/proceedings/index.html.
- "Nonparametric Identification Under Response-Based Sampling," in C. Hsiao, K. Morimune, and J. Powell (editors), *Nonlinear Statistical Inference: Essays in Honor of Takeshi Amemiya*, New York: Cambridge University Press, 2001, pp. 241-258.
- "Economic Analysis of Social Interactions," *Journal of Economic Perspectives*, Vol. 14, No. 3, 2000, pp. 115-136.
- "Monotone Instrumental Variables: With an Application to the Returns to Schooling," with J. Pepper, *Econometrica*, Vol. 68, No. 4, 2000, pp. 997-1010.

- "Nonparametric Analysis of Randomized Experiments with Missing Covariate and Outcome Data," with J. Horowitz, *Journal of the American Statistical Association*, Vol. 95, No. 449, 2000, pp. 77-84 (article) and pp. 87-88 (rejoinder).
- "Identification Problems and Decisions Under Ambiguity: Empirical Analysis of Treatment Response and Normative Analysis of Treatment Choice," *Journal of Econometrics*, Vol. 95, No. 2, 2000, pp. 415-442.
- "Treatment Choice in Heterogeneous Populations Using Experiments Without Covariate Data," in G. Cooper and S. Moral (editors), *Uncertainty in Artificial Intelligence, Proceedings of the Fourteenth Conference*, San Francisco, CA: Morgan Kaufmann, 1998, pp. 379-385.
- "Censoring of Outcomes and Regressors due to Survey Nonresponse: Identification and Estimation Using Weights and Imputations," with J. Horowitz, *Journal of Econometrics*, Vol. 84, No. 1, 1998, pp. 37-58.
- "Monotone Treatment Response," Econometrica, Vol. 65, No. 6, 1997, pp. 1311-1334.
- "The Mixing Problem in Programme Evaluation," *Review of Economic Studies*, Vol. 64, No. 4, 1997, pp. 537-553.
- "Identification of Anonymous Endogenous Interactions," in B. Arthur, S. Durlauf, and D. Lane (editors), *The Economy as an Evolving Complex System II*, Reading, Mass.: Addison-Wesley, 1997, pp. 369-384.
- "What Can be Learned About Population Parameters When the Data Are Contaminated?" with J. Horowitz, in C. R. Rao and G. S. Maddala (editors), *Handbook of Statistics, Vol. 15: Robust Statistics*, Amsterdam: North-Holland, 1997, pp. 439-466.
- "Learning about Treatment Effects from Experiments with Random Assignment of Treatments," *Journal of Human Resources*, Vol. 31, No. 4, 1996, pp. 707-733.
- "Identification and Robustness with Contaminated and Corrupted Data," with J. Horowitz, *Econometrica*, Vol. 63, No. 1, 1995, pp. 281-302.
- "Analog Estimation of Econometric Models," in R. Engle and D. McFadden (editors) *Handbook of Econometrics*, Vol. 4, Amsterdam: North-Holland, 1994, pp. 2559-2582.
- "The Selection Problem," in C. Sims (editor), *Advances in Econometrics, Sixth World Congress*, Cambridge, UK: Cambridge University Press, 1994, pp. 143-170.
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- "Identification of Endogenous Social Effects: The Reflection Problem," *Review of Economic Studies*, Vol. 60, No. 3, 1993, pp. 531-542.
- "Identification Problems in the Social Sciences," Sociological Methodology, Vol. 23, 1993, pp. 1-56.

- "Distribution Theory for The Analysis of Binary Choice Under Uncertainty with Nonparametric Estimation of Expectations," with H. Ahn, *Journal of Econometrics*, Vol. 56, No. 3, 1993, pp. 291-321.
- "Nonparametric Estimation of Expectations in the Analysis of Discrete Choice Under Uncertainty" in W. Barnett, J. Powell, and G. Tauchen (editors), *Nonparametric and Semiparametric Methods in Econometrics and Statistics*, New York: Cambridge University Press, 1991, pp. 259-275.
- "Regression," Journal of Economic Literature, Vol. 29, No. 1, 1991, pp. 34-50.
- "Nonparametric Bounds on Treatment Effects," *American Economic Review Papers and Proceedings*, Vol. 80, No. 2, 1990, pp. 319-323.
- "Anatomy of the Selection Problem," Journal of Human Resources, Vol. 24, No. 3, 1989, pp. 343-360.
- "The Logit Model and Response-Based Samples," with Y. Xie, *Sociological Methods and Research*, Vol. 17, No. 3, 1989, pp. 283-302.
- "Estimation of Best Predictors of Binary Response," With T. S. Thompson, *Journal of Econometrics*, Vol. 40, No. 1, 1989, pp. 97-123.
- "Identification of Binary Response Models," *Journal of the American Statistical Association*, Vol. 83, No. 403, 1988, pp. 729-738.
- "Monte-Carlo Evidence on Adaptive Maximum Likelihood Estimation of a Regression," with D. Hsieh, *Annals of Statistics*, Vol. 15, No. 2, 1987, pp. 541-551.
- "Semiparametric Analysis of Random Effects Linear Models From Binary Response Data," *Econometrica*, Vol. 55, No. 2, 1987, pp. 357-362.
- "Operational Characteristics of Maximum Score Estimation," with T. S. Thompson, *Journal of Econometrics*, Vol. 32, No. 1, 1986, pp. 85-108.
- "Semiparametric Analysis of Binary Response from Response-Based Samples," *Journal of Econometrics*, Vol. 31, No. 1, 1986, pp. 31-40.
- "Estimation of Response Probabilities From Augmented Retrospective Observations," with D. Hsieh and D. McFadden, *Journal of the American Statistical Association*, Vol. 80, No. 391, 1985, pp. 651-662.
- "Semiparametric Analysis of Discrete Response: Asymptotic Properties of the Maximum Score Estimator," *Journal of Econometrics*, Vol. 27, No. 3, 1985, pp. 313-333.
- "Adaptive Estimation of Non-linear Regression Models," *Econometric Reviews*, Vol. 3, No. 2, Fall 1984, pp. 145-194 (article) and pp. 209-210 (reply).
- "Revue Des Travaux Recents Sur L'Estimation Des Modeles Econometriques Sous Des Hypotheses Affaiblies," *Les Cahiers Du Seminaire d'Econometrie*, No. 26, July, 1984, pp. 67-91.

- "Closest Empirical Distribution Estimation," Econometrica, Vol. 51, No. 2, 1983, pp. 305-319.
- "Structural Models for Discrete Data: The Analysis of Discrete Choice," *Sociological Methodology*, Vol. 11, 1981, pp. 58-109.
- "Alternative Estimators and Sample Designs for Discrete Choice Analysis," with D. McFadden, in *Structural Analysis of Discrete Data with Econometric Applications*, op. cit., pp. 2-50.
- "On the Use of Simulated Frequencies to Approximate Choice Probabilities," with S. Lerman, in *Structural Analysis of Discrete Data with Econometric Applications*, op. cit., pp. 305-319.
- "Prospects for Inference on Deterrence Through Empirical Analysis of Individual Criminal Behavior," in A. Blumstein, J. Cohen and D.Nagin (editors), *Deterrence and Incapacitation: The Effects of Criminal Sanctions on Crime Rates*, Washington: National Academy of Sciences, 1978; reprinted in J. Heineke (editor), *Economic Models of Criminal Behavior*, Amsterdam: North-Holland, 1978, pp. 83-122.
- "The Estimation of Choice Probabilities from Choice Based Samples," with S. Lerman, *Econometrica*, Vol. 45, No. 8, 1977, pp. 1977-1988.
- "Maximum Score Estimation of the Stochastic Utility Model of Choice," *Journal of Econometrics*, Vol. 3, No. 3, 1975, pp. 205-228.

Published Articles: Judgment and Decision

- "Interpreting Point Predictions: Some Logical Issues," *Foundations and Trends in Accounting*, Vol. 10, No. 2-4, 2016, pp. 238-261.
- "Using Elicited Choice Probabilities in Hypothetical Elections to Study Decisions to Vote," with A. Delavande, *Electoral Studies*, Vol. 38, 2015, pp. 28-37.
- "First- and Second-order Subjective Expectations in Strategic Decision-Making: Experimental Evidence," with C. Neri, *Games and Economic Behavior*, Vol. 81, 2013, pp. 232-254.
- "Diagnostic Testing and Treatment under Ambiguity: Using Decision Analysis to Inform Clinical Practice," *Proceedings of the National Academy of Sciences*, Vol. 110, No. 6, 2013, pp. 2064-2069.
- "Candidate Preferences and Expectations of Election Outcomes," with A. Delavande, *Proceedings of the National Academy of Sciences*, Vol. 109, No. 10, 2012, pp. 3711-3715.
- "Assessing the Temporal Variation of Macroeconomic Forecasts by a Panel of Changing Composition," with J. Engelberg and J. Williams, *Journal of Applied Econometrics*, Vol. 26, No. 7, 2011, pp. 1059-1078.
- "Interpreting and Combining Heterogeneous Survey Forecasts," in M. Clements and D. Hendry (editors), *Oxford Handbook on Economic Forecasting*, Oxford: Oxford University Press, 2011, pp. 457-472.
- "Actualist Rationality," Theory and Decision, Vol. 71, No. 2, 2011, pp. 195-210.

- "Measuring and Interpreting Expectations of Equity Returns," with J. Dominitz, *Journal of Applied Econometrics*, Vol. 26, No. 3, 2011, pp. 352-370.
- "Measuring Consumer Uncertainty About Future Inflation," with W. Bruine de Bruin, G. Topa, and W. van der Klaauw, *Journal of Applied Econometrics*, Vol. 26, No. 3, 2011, pp. 454-478.
- "Probabilistic Polling and Voting in the 2008 Presidential Election: Evidence from the American Life Panel," with A. Delavande, *Public Opinion Quarterly*, Vol. 74, No. 3, 2010, pp. 433-459.
- "Rounding Probabilistic Expectations in Surveys," with F. Molinari, *Journal of Business and Economic Statistics*, Vol. 28, No. 2, 2010, pp. 219-231.
- "Comparing the Point Predictions and Subjective Probability Distributions of Professional Forecasters," with J. Engelberg and J. Williams, *Journal of Business and Economic Statistics*, Vol. 27, No. 1, 2009, pp. 30-41.
- "Expected Equity Returns and Portfolio Choice: Evidence from the Health and Retirement Study," with J. Dominitz, *Journal of the European Economic Association*, Vol. 5, No. 2-3, 2007, pp. 369-379.
- "Measuring Pension-Benefit Expectations Probabilistically," with J. Dominitz, *Labour*, Vol. 20, No. 2, 2006, pp. 201-236.
- "Interpreting the Predictions of Prediction Markets," Economic Letters, Vol. 91, No. 3, 2006, pp. 425-429.
- "Social Learning and the Adoption of Innovations," in L. Blume and S. Durlauf (editors), *The Economy as an Evolving Complex System III*, Oxford: Oxford University Press, 2005.
- "Measuring Expectations," Econometrica, Vol. 72, No. 5, 2004, pp. 1329-1376.
- "How Should We Measure Consumer Confidence?" with J. Dominitz, *Journal of Economic Perspectives*, Vol. 18, No. 2, 2004, pp. 51-66.
- "Social Learning from Private Experiences: The Dynamics of the Selection Problem," *Review of Economic Studies*, Vol. 71, No. 2, 2004, pp. 443-458.
- "Private Incentives and Social Interactions: Fertility Puzzles in Israel," with J. Mayshar, *Journal of the European Economic Association*, Vol. 1, No.1, 2003, pp. 181-211.
- "Probabilistic Polling," in J. Manza, F. Cook, and B. Page (editors), *Navigating Public Opinion: Polls, Policy, and the Future of American Democracy*, Oxford University Press, 2002, pp. 251-271.
- "Who are Youth *At-Risk*?: Expectations Evidence in the NLSY-97," with J. Dominitz and B. Fischhoff, in R. Michael (editor), *Social Awakenings: Adolescents' Behavior as Adulthood Approaches*, New York: Russell Sage Foundation, 2001, pp. 230-257.
- "Teen Expectations for Significant Life Events," with B. Fischhoff, A. Parker, W. Bruine de Bruin, J. Downs, C. Palmgren, and R. Dawes, *Public Opinion Quarterly*, Vol. 64, No. 2, 2000, pp. 189-205.

- "Worker Perceptions of Job Insecurity in the Mid-1990s: Evidence from the Survey of Economic Expectations," with John Straub, *Journal of Human Resources*, Vol. 35, No. 3, 2000, pp. 447-479.
- "Analysis of Choice Expectations in Incomplete Scenarios," *Journal of Risk and Uncertainty*, Vol. 19, No. 1/3, 1999, pp. 49-66.
- "The Several Cultures of Research on Subjective Expectations," with J. Dominitz, in R. Willis and J. Smith (editors), *Wealth, Work, and Health*, Ann Arbor, Mich.: University of Michigan Press, 1999, pp.15-33.
- "Using Expectations Data to Study Subjective Income Expectations," with J. Dominitz, *Journal of the American Statistical Association*, Vol. 92, No. 439, 1997, pp. 855-867.
- "Perceptions of Economic Insecurity: Evidence from the Survey of Economic Expectations," with J. Dominitz, *Public Opinion Quarterly*, Vol. 61, No. 2, 1997, pp. 261-287.
- "Dynamic Choice in Social Settings: Learning from the Experiences of Others," *Journal of Econometrics*, Vol. 58, No. 1-2, 1993, pp. 121-136.
- "The Use of Intentions Data to Predict Behavior: A Best Case Analysis," *Journal of the American Statistical Association*, Vol. 85, No. 412, 1990, pp. 934-940.
- "Ordinal Utility Models of Decision Making Under Uncertainty," *Theory and Decision*, Vol. 25, No. 1, 1988, pp. 79-104.
- "Learning and Decision Making When Subjective Probabilities Have Subjective Domains," *Annals of Statistics*, Vol. 9, No. 1, 1981, pp. 59-65.
- "The Implications of Demand Instability for the Behavior of Firms: The Case of Residential Construction," with K. Rosen, *Journal of the American Real Estate and Urban Economics Association*, Vol. 6, No. 2, 1978, pp. 204-226.
- "The Structure of Random Utility Models," *Theory and Decision*, Vol. 8, No. 3, 1977, pp. 229-254.

Published Articles: Public Policy

- "Mandating Vaccination with Unknown Indirect Effects," Journal of Public Economics Theory, forthcoming.
- "Randomizing Regulatory Approval for Diversification and Deterrence," *Journal of Legal Studies*, Vol. 44, June, 2015, pp. S367-S385.
- "Communicating Uncertainty in Official Economic Statistics: An Appraisal Fifty Years after Morgenstern," *Journal of Economic Literature*, Vol. 53, No. 3, 2015, pp. 631-653.
- "Choosing Size of Government under Ambiguity: Infrastructure Spending and Income Taxation," *The Economic Journal*, vol. 124, May, 2014, pp. 359-376.

- "Drug Control Policy in an Uncertain World," Oregon Law Review, Vol. 91, No. 4, 2013, pp. 997-1008.
- "Status Quo Deference and Policy Choice under Ambiguity," *Journal of Institutional and Theoretical Economics*, Vol. 169, No. 1, 2013, pp. 116-128.
- "Deterrence and the Death Penalty: Partial Identification Analysis Using Repeated Cross Sections," with J. Pepper, *Journal of Quantitative Criminology*, Vol. 29, 2013, No. 1, pp. 123-141.
- "Genes, Eyeglasses, and Social Policy," Journal of Economic Perspectives, Vol. 25, No. 4, 2011, pp. 83-94.
- "Policy Analysis with Incredible Certitude," *The Economic Journal*, Vol. 121, August, 2011, pp. F261-F289.
- "Choosing Treatment Policies under Ambiguity," Annual Review of Economics, Vol. 3, 2011, pp. 25-49.
- "Policy Choice with Partial Knowledge of Policy Effectiveness," *Journal of Experimental Criminology*, Vol. 7, No. 2, 2011, pp. 111-125.
- "Competitive Lending with Partial Knowledge of Loan Repayment: Some Positive and Normative Analysis," with W. Brock, *Journal of Money, Credit, and Banking*, Vol. 43, No. 2-3, 2011, 441-459.
- "When Consensus Choice Dominates Individualism: Jensen's Inequality and Collective Decisions under Uncertainty," *Quantitative Economics*, Vol. 1, No. 1, 2010, pp. 187-202.
- "Vaccination with Partial Knowledge of External Effectiveness," *Proceedings of the National Academy of Sciences*, Vol. 107, No. 9, 2010, pp. 3953-3960.
- "Diversified Treatment under Ambiguity," *International Economic Review*, Vol. 50, No. 4, 2009, pp. 1013-1041.
- "Social Planning with Partial Knowledge of Social Interactions," *Journal of Institutional and Theoretical Economics*, Vol. 165, 2009, pp. 146-158.
- "Search Profiling with Partial Knowledge of Deterrence," *The Economic Journal*, Vol. 116, No. 515, 2006, pp. F385-F401.
- "Optimal Search Profiling with Linear Deterrence," *American Economic Review Papers and Proceedings*, Vol. 95, No. 2, 2005, pp. 122-126.
- "Using Performance Standards to Evaluate Social Programs with Incomplete Outcome Data: General Issues and Application to a Higher Education Block Grant Program," with J. Newman and J. Pepper, *Evaluation Review*, Vol. 26, No.4, 2002, pp. 355-381.
- "Child Allowances and Fertility in Israel: Preliminary Findings," with J. Mayshar, *The Economic Quarterly*, Vol. 47, No. 4, 2000, 535-565. (in Hebrew)
- "Bounding Disagreements About Treatment Effects: A Case Study of Sentencing and Recidivism," with D. Nagin, *Sociological Methodology*, Vol. 28, 1998, pp.99-137.

- "Review Article: *The Bell Curve* by Herrnstein and Murray," with A. Goldberger, *Journal of Economic Literature*, Vol. 33, No. 2, 1995, pp. 762-776.
- "Micro-Experiments and Macro Effects," with I. Garfinkel and C. Michalopoulos, in *Evaluating Welfare and Training Programs*, op. cit.
- "Where We Are in the Evaluation of Federal Social Welfare Programs," Focus, Vol. 12, No. 4, 1990, pp. 1-5.
- "The Denomination-Specific Demand for Currency: The Israeli Experience," with E. Goldin, in R. Heijmans and H. Neudecker (editors), *The Practice of Econometrics: Studies on Demand, Forecasting, Money and Income*, Amsterdam: Kluwer, 1987, pp. 99-120.
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Published Articles: Education

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- "Eliciting Student Expectations of the Returns to Schooling," with J. Dominitz, *Journal of Human Resources*, Vol. 31, No. 1, 1996, pp. 1-26.
- "Adolescent Econometricians: How Do Youth Infer the Returns to Schooling?" in C. Clotfelter and M. Rothschild (editors) *Studies of Supply and Demand in Higher Education*, Chicago: University of Chicago Press, 1993, pp. 43-57.
- "Income and Higher Education," Focus, Vol. 14, No.3, Winter 1992-1993, pp. 14-19.
- "School *Choice* (Vouchers) and Social Mobility," *Economics of Education Review*, Vol. 11, No. 4, 1992, pp. 351-369; a revised expository version appears as "Systemic Educational Reform and Social Mobility: The School *Choice* Controversy," in S. Danziger, G. Sandefur, and D. Weinberg (editors), *Confronting Poverty: Prescriptions for Change*, Cambridge, Mass.: Harvard University Press, 1994, pp. 208-228.
- "Alternative Estimates of the Effect of Family Structure During Adolescence on High School Graduation," with G. Sandefur, S. McLanahan, and D. Powers, *Journal of the American Statistical Association*, Vol. 87, No. 417, 1992, pp. 25-37.
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- "Academic Ability, Earnings, and the Decision to Become a Teacher: Evidence from the National Longitudinal Study of the High School Class of 1972," in D. Wise (editor) *Public Sector Payrolls*, Chicago: University of Chicago Press, 1987, pp. 291-312.

- "The Impact of the Basic Educational Opportunity Grant Program on College Enrollments," with W. Fuller and D. Wise, in E. Helpman, A. Razzin and E. Sadka (editors), *Evaluation of Public Programs: An Economic Perspective*, New York: Academic Press, 1983, pp. 123-142.
- "New Evidence on the Economic Determinants of Post-Secondary Schooling Choices," with W. Fuller and D. Wise, *Journal of Human Resources*, Vol. 17, No. 4, 1982, pp. 477-498.
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Published Articles: Transportation

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- "The Demand for Teleshopping: An Application of Discrete Choice Models" with I. Salomon, *Regional Science and Urban Economics*, Vol. 17, No. 1, 1987, pp. 109-121.
- "An Econometric Analysis of Automobile Scrappage," with E. Goldin, *Transportation Science*, Vol. 17, No. 4, 1983, pp. 365-375.
- "Analysis of Equilibrium Automobile Holdings in Israel with Aggregate Discrete Choice Models," *Transportation Research*, Vol. 17B, No. 5, 1983, pp. 373-389.
- "A Model of the Effect of Information Diffusion on Travel Demand," with S. Lerman, *Transportation Science*, Vol. 16, No. 2, 1982, pp. 171-191.
- "Aggregate Demand and Discrete Choice Models of the U.S.A. Automobile Market: A Critical Comparison," *Transportation Policy and Decision Making*, Vol. 1, 1981, pp. 313-326.
- "A Behavioral Approach to Modelling Motor Vehicle Ownership and Applications to Aggregate Policy Analysis," with M. Ben-Akiva and L. Sherman, *Environment and Planning*, Vol. 13A, 1981, pp. 399-411.
- "Recent Advances in and New Directions for Behavioral Travel Modelling," in W. Brog, P. Stopher, and A. Meyburg (editors), *New Horizons in Behavioral Travel Modelling*, D. C. Heath, 1981.
- "Forecasting Equilibrium Motor Vehicle Holdings By Means of Disaggregate Models," with L. Sherman, *Transportation Research Record*, No. 764, 1980, pp. 96-103.
- "An Empirical Analysis of Household Choice Among Motor Vehicles," with L. Sherman, *Transportation Research*, Vol. 14A, No. 5-6, 1980, pp. 349-366.

- "Sample Design for Discrete Choice Analysis of Travel Behavior: The State of the Art," with S. Lerman, *Transportation Research*, Vol. 13A, No. 1, 1979, pp. 29-44.
- "Theoretical and Conceptual Developments in Demand Modelling," with R. Westin, in D. Hensher and P. Stopher (editors), *Behavioral Travel Modelling*, Croom-Helm, 1979.
- "The Nature of Equilibrium in the Market for Taxi Services," with J. Wright, *Transportation Research Record*, No.619, 1976, pp. 11-15.
- "Alternative Sampling Procedures for Disaggregate Choice Model Estimation," with S. Lerman, *Transportation Research Record*, No. 592, 1976, pp. 24-28.

Other Publications

"Narrow or Broad Cost-Benefit Analysis?" Criminology and Public Policy, Vol. 14, No. 4, 2015.

"How to Communicate the Uncertainty in Economic Statistics," *Significance*, September 22, 2015, www.statslife.org.uk/economics-and-business/2444-how-to-communicate-the-uncertainty-in-economic-st atistics

"The Value of Variation in Clinical Practice under Uncertainty," *Vox*, October 1, 2014, voxeu.org/article/benefits-treating-similar-patients-differently

"Facing up to Uncertainty in Official Economic Statistics," *Vox*, May 21, 2014, www.voxeu.org/article/uncertainty-official-statistics

"Arthur S. Goldberger: a Biographical Memoir," National Academy of Sciences, 2013, www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/goldberger-arthur.pdf

"Removing Deadweight Loss from Economic Discourse on Income Taxation and Public Spending," *Vox*, August 18, 2013,

www.voxeu.org/article/removing-deadweight-loss-economic-discourse-income-taxation-and-public-spending

Comment on P. Goldsmith-Pinkham and G. Imbens, "Social Networks and the Identification of Peer Effects," *Journal of Business and Economic Statistics*, Vol. 31, No. 3, 2013, pp. 273-275.

"Communicating Uncertainty in Forecasts," Central Banking Journal, Vol. 23, No. 4, 2013, pp. 93-97.

"Income Tax and Labour Supply: Let's Acknowledge What We Don't Know," *Vox*, August 23, 2012, http://www.voxeu.org/article/income-tax-and-labour-supply-let-s-acknowledge-what-we-don-t-know

"Should Official Forecasts Express Uncertainty? The Case of the CBO," *Vox*, November 22, 2011, www.voxeu.eu/index.php?q=node/7313.

"Obituary: Arthur S. Goldberger(1930–2009)," Econometric Theory, Vol. 26, No. 2, 2010, pp. 327-329.

"Unlearning and Discovery," *The American Economist*, Vol. 55, No. 1, 2010, pp. 9-18.

"Adaptive Partial Drug Approval: A Health Policy Proposal," *The Economists' Voice*, Vol. 6, No. 4, 2009, article 9.

"Partial Identification in Econometrics," New Palgrave Dictionary of Economics, 2nd Edition, London: Palgrave MacMillan, 2008.

"Profiling: Introduction to the Feature," *The Economic Journal*, Vol. 116, No. 515, 2006, pp. F347-F350.

"Practices that Limit the Usefulness of Research on Treatment Response," *Medium Econometrische Toepassingnen*, Vol. 14, No. 2, 2006, pp. 26-31.

Comment on J. Copas and S. Eguchi, "Local Model Uncertainty and Incomplete-Data Bias," *Journal of the Royal Statistical Society Series B*, Vol. 67, Part 4, 2005, p.506.

"Identification Problems in the Social Sciences and Everyday Life," Association Lecture presented to the 2002 meeting of the Southern Economic Association, *Southern Economic Journal*, Vol. 70, No. 1, 2003, pp. 11-21.

"Credible Research Practices to Inform Drug Law Enforcement," *Criminology and Public Policy*, Vol. 2, No. 3, 2003, pp. 543-556.

"Daniel McFadden and the Econometric Analysis of Discrete Choice," *Scandinavian Journal of Economics*, Vol. 103, No. 2, 2001, pp. 217-229.

"Questionnaires: Assessing Subjective Expectations," in N. Smelser and P. Baltes (editors), 2001 International Encyclopedia of the Social & Behavioral Sciences, Oxford: Pergamon, 2001, pp. 12663-12667.

"Why Polls Are Fickle," op-ed article, *The New York Times*, October 16, 2000, p. A27.

Comment on P. Rosenbaum, 'Choice as an Alternative to Control in Observational Studies,' *Statistical Science*, Vol. 14, 1999, pp. 279-281.

Review of B. Efron and R. Tibshirani, *An Introduction to the Bootstrap*, *Journal of Economic Literature*, Vol. 34, No. 3, 1996, pp. 1340-1342.

Review of S. Anderson, A. De-Palma, and J. Thisse, *Discrete Choice Theory of Product Differentiation*, *Journal of Economic Literature*, Vol. 31, No. 4, 1993, p. 1972.

Comment on C. Clogg, 'The Impact of Sociological Methodology on Statistical Methodology,' *Statistical Science*, Vol. 7, No. 2, 1992, pp. 201-203.

"Official' Indicators of Dependency and Persistent Poverty," prepared statement in *Welfare Dependency*, Hearings before the Subcommittee on Social Security and Family Policy of the Committee on Finance, United States Senate, 1991, Washington: U.S. Government Printing Office, pp. 127-129.

Review of P. Fishburn, *Nonlinear Preference and Utility Theory*, *Journal of Economic Literature*, Vol. 27, No. 4, 1989, p. 1671-1672.

Review of S. Fienberg and A. Zellner, *Studies in Bayesian Econometrics and Statistics: In Honor of Leonard J. Savage, Journal of Economic Literature*, Vol. 15, No. 2, 1977, pp. 544-547.

Review of F. Jolliffe, Common Sense Statistics for Economists and Others, Journal of the American Statistical Association, Vol. 70, No.52, 1975, p.964.

Unpublished Research

"Credible Ecological Inference for Personalized Medicine: Formalizing Clinical Judgment," September 2016.

"More Data or Better Data? A Statistical Decision Problem," with Jeff Dominitz, March 2016.

"How Do Right-to-Carry Laws Affect Crime Rates? Coping with Ambiguity Using Bounded-Variation Assumptions," with John Pepper, March 2016.

"Optimize, Satisfice, or Choose Without Deliberation? A Minimax-Regret Assessment," March 2016.

"The Quantile Performance of Statistical Treatment Rules Using Hypothesis Tests to Allocate a Population to Two Treatments," with Aleksey Tetenov, October 2014.

Computer Programs

"BOUNDS" for MATLAB and STATA, draft Version 1.0," with A. Beresteanu, June 2000.

"EDCHOICE: Schooling Equilibrium Simulation," with T. Shen, FORTRAN with documentation, Institute for Research on Poverty, May 1992.

"MSCORE: A Program for Maximum Score Estimation, Version 1.4," with S. Thompson, FORTRAN with documentation, July 1987; also available in LIMDEP.

"The Conditional Logit Program," FORTRAN with documentation, July, 1974.

Professional Service: Editorial

Editorial Committee, Annual Review of Economics, 2007-2013.

Associate Editor, Annals of Applied Statistics, 2006-2010.

Associate Editor, Journal of the American Statistical Association, Theory and Methods, 2002-04.

Editor, Journal of Human Resources, 1991-94.

Associate Editor, Journal of Economic Perspectives, 1986-89.

Co-Editor, Econometric Society Monograph Series, 1983-88.

Associate Editor, Econometrica, 1980-88.

Associate Editor, *Journal of the American Statistical Association*, Applications, 1983-85. Associate Editor, *Transportation Science*, 1978-84.

Professional Service: National Academy of Sciences and National Research Council

Committee on Advancing Social and Behavioral Science Research and Application within the Weather Enterprise, DELS, from 2016.

Committee on Proactive Policing, DBASSE, from 2015.

Secretary, Class V: Behavioral and Social Sciences, NAS, from 2015.

Report Review Committee, NRC, from 2010.

2016 Nominating Committee, NAS, 2015.

Section 54 Liaison to NRC, NAS, 2011-2015.

Committee for a Study of Intercity Passenger Travel Issues, TRB, 2012-2015.

Member at Large, Class V Committee, NAS, 2012-2013.

Committee on Law and Justice, DBASSE, 2009-2015.

Committee on Assessment of Agent-Based Models to Inform Tobacco Product Regulation, IOM, 2014-2015.

Committee on the Context of Military Environments, DBASSE, 2013-2014.

Committee on Deterrence and the Death Penalty, DBASSE, 2010-2012.

Board on Mathematical Sciences and Their Applications, NRC, 2004-07.

Committee on Data and Research for Policy on Illegal Drugs, DBASSE, Chair 1998-2001.

Committee on National Statistics, DBASSE, 1996-2000.

Commission on Behavioral and Social Sciences and Education, NRC, 1992-98.

Committee on Methods of Forecasting Demand and Supply of Scientists and Engineers, NRC, 1997-98.

Committee on the Federal Role in Education Research, DBASSE, 1991-92.

Committee on Research on Law Enforcement and the Administration of Justice, DBASSE, 1984-87.

Panel on Research on Criminal Careers, DBASSE, 1983-86.

Professional Service: University

Barcelona Graduate School of Economics Scientific Council, from 2007.

Dean Search Committee, Weinberg College of Arts and Sciences, Northwestern University, 2014.

Executive Committee, Institute for Policy Research, Northwestern University, 1998-2001, 2005-08.

Board of Trustees, Falk Institute for Economic Research in Israel, 2001-08.

Administrative Board of the Graduate School, Northwestern University, 2003-07.

Program Review Council, Northwestern University, 2002-05.

Promotions Committee, Weinberg College of Arts and Sciences, Northwestern University, 2000.

External Advisory Board, Heinz School of Public Policy, Carnegie-Mellon University, 1992-2001; co-chair 1995-2001.

College of Letters and Sciences Divisional Review Committee, University of Wisconsin-Madison, 1992.

Principal Investigators Committee, The Graduate School, University of Wisconsin-Madison, 1991-92.

Vice Chancellor's Committee to Examine the Organization of Public Policy Activities, University of Wisconsin-Madison, 1989-90.

Executive Committee, Institute for Research on Poverty, University of Wisconsin-Madison, 1988-96, chair 1988-91.

Research Committee, The Graduate School, The University of Wisconsin-Madison, 1986-88.

Steering Committee, Center for Demography and Ecology, University of Wisconsin-Madison, 1987-97. Computer Committee, School of Social Sciences, Hebrew University of Jerusalem, 1980-82, chair 1981-82.

Professional Service: Other

Waterman Award Committee, National Science Foundation, 2013-2016.

President, Midwest Economics Association, 2013-2014.

Council, the Econometric Society, 2011-2013.

Consultant, Federal Reserve Bank of New York, 2007-08.

Committee of Visitors, Division of Social and Economic Sciences, National Science Foundation, 2007.

Honors and Awards Committee, American Economic Association, 2006-2010.

Council Delegate, Section on Social, Economic, and Political Science, AAAS, 2006-09.

Steering Committee, Health and Retirement Study, 2002-05.

Methodology, Measurement, and Statistics Advisory Panel, National Science Foundation, 1999-2000.

External Advisory Committee, National Consortium for Violence Research, 1997-99.

Board of Overseers, Panel Study of Income Dynamics, 1991-1998, Chair 1994-98.

Advisory Panel for Evaluation of the JOBS Program, U.S. Dept. of Health and Human Services, 1990-93.

Technical Advisory Committee, National Longitudinal Study of Labor Market Experience, 1989-93.

Economics Advisory Panel, National Science Foundation, 1985-87.

Selected Invited Addresses

Royal Economic Society Easter School Lectures, Wivenhoe, 2016.

IAAE Lecture, International Association for Applied Econometrics Annual Conference, Thessaloniki, 2015.

Richard Ely Distinguished Lectures, Johns Hopkins University, Baltimore, 2014

Keynote Lecture, Annual Meeting of International Transportation Economics Association, Evanston, 2013.

North American Summer Meeting of the Econometric Society, Los Angeles, 2013

Keynote Lecture, Annual Meeting of the Canadian Health Economists' Study Group, Winnipeg, 2013

Sargan Lecture, Annual Meeting of the Royal Economic Society, Egham, 2013.

Lecture, British Academy, London, 2013.

Douglass North Honorary Lecture, Washington University, St. Louis, 2012

Plenary Address, Annual Meeting of the International Economic Science Association, New York, 2012

W. Edmund Clark Lecture, Queen's University, Kingston, 2012

Labour Lectures, Enaudi Institute for Economics and Finance, Rome, 2012

Keynote Lecture, 2nd Dauphine Workshop on Economic Theory, Paris, 2011

28th Annual Meeting of the Canadian Econometrics Study Group, Toronto, 2011

Leverhulme Lecture, Institute for Fiscal Studies, London, 2011

Econometrics Journal Lecture, 21st EC² Conference, Toulouse, 2010

Jerry Lee Crime Prevention Symposium, College Park, MD, 2010

North American Winter Meeting of the Econometric Society, Atlanta, 2010

5th Annual Conference on Economic Growth and Development, New Delhi, 2009

Far Eastern and South Asian Meeting of the Econometric Society, Tokyo, 2009

Lawrence W. Klein Lecture, International Economic Review, Philadelphia, 2009

Annual Conference of the Society for Research on Educational Effectiveness, Washington DC, 2009

North American Winter Meeting of the Econometric Society, San Francisco, 2009

Keynote Speaker, 27th International Symposium on Forecasting, New York, 2007

13th International Conference on Panel Data, Cambridge UK, 2006

World Congress of the International Institute of Sociology, Stockholm, 2005

Labour Distinguished Lectures Series, Rome, 2005

Econometric Institute Lectures, Rotterdam, 2004

Fisher-Schultz Lecture, The Econometric Society, Stockholm, 2003

Journal of Applied Econometrics Lectures, Madison, 2003

Association Lecture, Southern Economic Association, New Orleans, 2002

Keynote Lecture, European Society of Population Economics, Bilbao, 2002

C. Woody Thompson Lecture, Midwest Economics Association, Chicago, 2002

CERF Lecture, Canadian Economics Association, Vancouver, 2000

European Meeting of the Econometric Society, Santiago de Compostela, 1999

Annual Conference on Uncertainty in Artificial Intelligence, Madison 1998

India and Southeast Asia Meeting of the Econometric Society, New Delhi, 1996

Annual Meeting of the American Sociological Association, Philadelphia, 1992

World Congress of the Econometric Society, Barcelona, 1990

Slutsky Lecture, North American Winter Meeting of the Econometric Society, New Orleans, 1986

Honors

Fellow, American Statistical Association, 2016.

Corresponding Fellow, British Academy, 2014.

Member, National Academy of Sciences, 2009.

Laurea Honoris Causa, University of Rome 'Tor Vergata,' 2006.

National Associate, National Research Council, 2001.

Board of Trustees Professor, Northwestern University, 1997.

Fellow, American Academy of Arts and Sciences, 1994.

Hilldale Professor, University of Wisconsin-Madison, 1993.

Fellow, Center for Advanced Study in the Behavioral Sciences, 1992.

Fellow, American Association for the Advancement of Science, 1991.

Wolfowitz Professor, University of Wisconsin-Madison, 1989.

Romnes Fellow, University of Wisconsin-Madison, 1984.

Fellow, the Econometric Society, 1984.

Graduate Fellowship, National Science Foundation, 1970.

Stewart Award, M. I. T., 1969.