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EXPERIENCE

- Jan. 2003 to present *Duke University*, Durham, North Carolina
Hanes Corporation Foundation Professor of Business Administration, Fuqua School of Business. MBA Teaching: data mining, forecasting, environmental economics; Ph.D. computational econometrics.
- Jan. 2010 to present *New York University*, New York City, New York
Distinguished Scientist in Residence, Department of Economics
Ph.D. teaching: computational econometrics.
- July 1993 to present *University of North Carolina*, Chapel Hill, North Carolina
Emeritus Professor of Economics. Adjunct Professor of Statistics and Henry A. Latané Distinguished Professor of Economics previously. Graduate teaching: nonlinear and non-parametric econometrics, mathematical statistics.
- March 1983 to present *Duke University*, Durham, North Carolina
Professor of Economics (secondary appointment), Department of Economics, Research Professor previously. Graduate teaching: topics in econometrics.
- July 1971 to June 1993 *North Carolina State University*, Raleigh, North Carolina
Drexel Professor of Statistics and Economics. Assistant, Associate, and Full Professor previously. Graduate teaching: econometrics, linear models, multivariate linear and nonlinear models, time series analysis, statistical inference, statistical computing. Undergraduate teaching: mathematical statistics.
- Sept. 1987 to June 1988 *University of Chicago*, Chicago, Illinois
Visiting Professor of Econometrics, Graduate School of Business. Graduate teaching: advanced econometrics.
- Sept. 1982 to June 1983 *Northwestern University*, Evanston, Illinois
Visiting Professor, Department of Economics and J. L. Kellogg Graduate School of Management. Graduate teaching: advanced econometrics, MBA teaching: calculus level statistics.
- Sept. 1979 to June 1980 *Duke University*, Durham, North Carolina
Visiting Associate Professor, Department of Economics. Graduate teaching: econometrics, mathematical statistics.
- Sept. 1975 to June 1976 *University of Chicago*, Chicago, Illinois
Visiting Assistant Professor of Statistics, Graduate School of Business. MBA teaching: calculus and non-calculus level statistics.

EDUCATION

- Sept. 1967 to June 1971 *Iowa State University*, Ames, Iowa
Ph.D. in statistics with minor in mathematics.
Snedecor Award, Phi Kappa Phi, Mu Sigma Rho, NDEA Fellowship.

Sept. 1965 *University of California at Los Angeles*, Los Angeles, California
to
June 1967 Beta Gamma Sigma.

Sept. 1960 *San Diego State University*, San Diego, California
to
June 1965 Graduation with honors and distinction in mathematics.

PROFESSIONAL SERVICE AND AWARDS

Fellow *American Statistical Association*, 1983.

Fellow *Econometric Society*, 1985.

Journal of Econometrics Fellow, 1988.

Board of Directors, American Statistical Association, 1987–1988.

Board of Directors, National Bureau of Economic Research, 1990–2004, Executive Committee, 1997–2004.

Board of Trustees, National Institute of Statistical Sciences, 1991–1997.

NCSU Alumni Association Outstanding Research Award, 1988.

D. D. Mason Faculty Award, 1984.

Organizer, with T. M. Gerig, of Computer Science and Statistics: Eleventh Annual Symposium on the Interface, March 1978.

Organizer, with William A. Barnett, of the Conference on New Approaches to Modeling, Specification Selection, and Econometric Inference, May 1984.

Lecturer in the Program of Visiting Lecturers in Statistics, 1976–1982.

President, North Carolina Chapter of the ASA, 1979.

ASA Committee on the Evaluation of Statistical Software, 1979–1982.

Program Chairman, Business and Economics Section, ASA, 1983.

President, Business and Economics Section, ASA, 1990.

Publications Committee, ASA: B&E Section Representative, 1985; *JBES* Representative, 1986–1989.

Program Committee, Econometric Society: 1986 Summer Meetings, 1990 World Congress.

Journals Management Committee, ASA, 1992–1997.

Outstanding Statistical Application Award, ASA, 1993.

National Science Foundation Panels: Economics 1995–1997, MSBS 2004, MMS 2005–2006.

JBES Invited Paper, 2001 Annual Meetings of the American Statistical Association.

Board of the Social Science Research Institute, Duke University, 2004–2007.

Member Executive Committee of the Academic Council, Duke University, 2004–2005, 2007–2008.

Nonlinear and Financial Econometrics Conference, A Tribute to A. Ronald Gallant, Toulouse School of Economics, May 19-21, 2011

FOREIGN LANGUAGE

French.

EDITORIAL SERVICE

Editor: *Journal of Business and Economic Statistics*, 1986–1989.

Associate Editor: *Journal of Econometrics*, 1977–1985, 1990–1991; *American Statistician*, 1979; *Journal of the American Statistical Association*, Theory and Methods Section, 1983–1985.

Co-Editor: *Journal of Econometrics*, 1991–present.

SHORT TERM APPOINTMENTS AND VISITS

Securities Exchange Commission, Washington, D.C., Financial Economist, Directorate of Economic and Policy Research, July 1977.

Laboratoire d'Econometrie de l'Ecole Polytechnique, Paris, France, June and July 1978.

Institut National de la Statistique et des Etudes Economique, Paris, France, July 1979, September 1982, July 1984, July 1998.

Colegio de Postgraduados, Chapingo, Mexico, Centro de Estadistica y Calculo, June 1981.

Empresa Brasileira de Pesquisa Agropecuaria, Brasilia, Brazil, July 1981, August 1989.

Stanford University, Stanford, California, Department of Computer Science, June and July 1982.

University of California at San Diego, La Jolla, California, Department of Economics, June 1983, July 1987, July 1989, July 1992, July 1997, July 1999.

Universidad Nacional Autonoma de Mexico, Mexico City, Mexico, Instituto de Investigaciones en Matematicas Aplicadas y en Sistemas, December 1986.

Board of Governors, Federal Reserve System, Washington DC, June 1994.

University of Tilburg, Tilburg, The Netherlands, June 1994.

Instituto Tecnologico Autonomo de Mexico, Mexico City, June 1995.

Tel Aviv University, Tel Aviv, Israel, June 1996.

Australian National University, Canberra, Australia, July 1996.

Princeton University, Princeton NJ, Department of Economics, Visiting Fellow, February–May, 2000.

University of Chicago, Graduate School of Business, February 2002, Spring Quarter 2004 (taught datamining).

CIRANO and University of Montreal, Montreal, Quebec, Canada, April 2003.

University of Uppsala, Uppsala, Sweden, October 2003.

New York University, Department of Economics, Spring Semester 2009, (taught computational economics).

National Center of Atmospheric Research, Boulder, Colorado, July–September, 2010, (sabbatical, research on climate models).

Stanford University, Department of Economics, October–December, 2010, (sabbatical, research on the econometrics of dynamic games).

DISSERTATION

Gallant, A. Ronald (1971), "Statistical Inference for Nonlinear Regression Models," Ph.D. Dissertation, Iowa State University, 114 pages.

ARTICLES

Gallant, A. R. (1968), "A Note on the Measurement of Cost/Quantity Relationships in the Aircraft Industry," *Journal of the American Statistical Association* 63, 1247–1252.

Gallant, A. R., and Wayne A. Fuller (1973), "Fitting Segmented Polynomial Regression Models Whose Join Points Have To Be Estimated," *Journal of the American Statistical Association* 68, 144–147.

Gallant, A. R., Thomas M. Gerig, and J. W. Evans (1974), "Time Series Realizations Obtained According to an Experimental Design," *Journal of the American Statistical Association* 69, 639–645.

Shumway, C. R., P. M. Maber, N. R. Baker, W. E. Sonder, A. H. Rubenstein, and A. R. Gallant (1975), "Diffuse Decision Making in Hierarchical Organizations: An Empirical Examination," *Management Science* 21, 697–707.

Gallant, A. R. (1975), "The Power of the Likelihood Ratio Test of Location in Nonlinear Regression Models", *Journal of the American Statistical Association* 70, 198–203.

Gerig, Thomas M., and A. Ronald Gallant (1975), "Computing Methods for Constrained Linear Models", *Journal of Statistical Computation and Simulation* 3, 283–296.

Gallant, A. Ronald (1975), "Seemingly Unrelated Nonlinear Regression Models", *Journal of Econometrics* 3, 35–50.

Gallant, A. R. (1975), "Nonlinear Regression", *The American Statistician* 29, 73–81.

Gallant, A. R. (1975), "Testing a Subset of the Parameters of a Nonlinear Regression Model", *Journal of the American Statistical Association* 70, 927–932.

Chao, Nelson P. C., John A. Cuculo, A. Ronald Gallant, and T. Waller George (1975), "A Statistical Method for Determining the Glass Transition Temperature from Dilatometric Data," *Applied Polymer Symposium* 27, 193–204.

Gallant, A. Ronald, and J. Jeffery Goebel (1976), "Nonlinear Regression with Auto-correlated Errors," *Journal of the American Statistical Association* 71, 961–967.

Gallant, A. Ronald (1977), "Three Stage Least Squares Estimation for a System of Simultaneous, Nonlinear, Implicit Equations," *Journal of Econometrics* 5, 71–88.

Gallant, A. Ronald (1977), "Testing a Nonlinear Regression Specification: A Nonregular Case," *Journal of the American Statistical Association* 72, 523–530.

Gallant, A. Ronald, and Dale W. Jorgenson (1979), "Statistical Inference for a System of Simultaneous, Nonlinear, Implicit Equations in the Context of Instrumental Variable Estimation," *Journal of Econometrics* 11, 275–302. Reprinted in Dale W. Jorgenson (2000), *Econometrics Volume 1: Econometric Modeling of Producer Behavior*, The MIT Press, Cambridge MA, Chapter 11, 311–339.

Gallant, A. Ronald, and Thomas M. Gerig (1980), "Computations for Constrained Linear Models," *Journal of Econometrics* 12, 59–84.

Gallant, A. Ronald, and Alberto Holly (1980), "Statistical Inference in an Implicit Nonlinear, Simultaneous Equation Model in the Context of Maximum Likelihood Estimation," *Econometrica* 48, 697–720.

Gallant, A. Ronald (1980), "Explicit Estimators of Parametric Functions in Nonlinear Regression," *Journal of the American Statistical Association* 75, 182–193.

- Gallant, A. Ronald (1981), "On the Bias in Flexible Functional Forms and an Essentially Unbiased Form: The Fourier Flexible Form," *Journal of Econometrics* 15, 211–245.
- Burguete, Jose F., A. Ronald Gallant, and Geraldo Souza (1982), "On Unification of the Asymptotic Theory of Nonlinear Econometric Models," *Econometric Reviews* 1, 151–190.
- Gallant, A. Ronald (1982), "Unbiased Determination of Production Technologies," *Journal of Econometrics* 20, 285–323.
- Aguirre-Torres, Victor, and A. Ronald Gallant (1983), "The Null and Non-null Asymptotic Distribution of the Cox Test for Multivariate Nonlinear Regression Alternatives and a New Distribution Free Cox Test," *Journal of Econometrics* 21, 5–33.
- Elbadawi, Ibrahim, A. Ronald Gallant, and Geraldo Souza (1983), "An Elasticity Can be Estimated Consistently Without A Priori Knowledge of Functional Form," *Econometrica* 51, 1731–1752.
- Gallant, A. Ronald, and Roger W. Koenker (1984), "Costs and Benefits of Peak-Load Pricing of Electricity: A Continuous-Time Econometric Approach," *Journal of Econometrics* 26, 83–114.
- Gallant, A. Ronald (1984), "The Fourier Flexible Form," *American Journal of Agricultural Economics* 66, 204–208.
- Gallant, A. Ronald, and Gene H. Golub (1984), "Imposing Curvature Restrictions on Flexible Functional Forms," *Journal of Econometrics* 26, 295–322.
- Chalfant, James A., and A. Ronald Gallant (1985), "Estimating Substitution Elasticities with the Fourier Cost Function: Some Monte Carlo Results," *Journal of Econometrics* 28, 205–222.
- Gallant, A. Ronald, and John F. Monahan (1985), "Explicitly Infinite Dimensional Bayesian Analysis of Production Technologies," *Journal of Econometrics* 30, 171–201. Reprinted in Barnett, William A., and A. Ronald Gallant, eds. (1990), *New Approaches to Modeling, Specification Selection, and Econometric Inference, Proceedings of the First International Symposium in Economic Theory and Econometrics*, Cambridge University Press, Cambridge UK, 171–201.
- Gallant, A. Ronald (1987), "Identification and Consistency in Semiparametric Regression," in Bewley, Truman F., ed. (1987), *Advances in Econometrics Fifth World Congress, Volume 1*, Cambridge University Press, New York, 145–170. Translated as Gallant, A. Ronald (1985), "Identification et Convergence en Regression Semi-Nonparametrique," *Annals de l'INSEE* 59/60, 239–267.
- Gallant, A. Ronald, and Douglas W. Nychka (1987), "Semi-Nonparametric Maximum Likelihood Estimation," *Econometrica* 55, 363–390.
- Gallant, A. Ronald (1987), "Nonlinear Methods in Econometrics," in Eatwell, John, Murray Milgate, and Peter Newman, eds. (1987), *The New Palgrave*, Stockton Press, New York, Vol. 3 (K–P), 663–666. Reprinted in Eatwell, John, Murray Milgate, and Peter Newman, eds. (1990), *Econometrics*, The Macmillan Press, London, 160–166.
- Gallant, A. Ronald, and Halbert L. White Jr. (1988), "There Exists a Neural Network That Does Not Make Avoidable Mistakes," *Proceedings of the Second Annual IEEE Conference on Neural Networks*, IEEE Press, New York, I:657–664. Revised and reprinted in White Jr., Halbert L. (1992), *Artificial Neural Networks*, Blackwell, Oxford UK, 5–11.
- Aguirre-Torres, Victor, A. R. Gallant, and Jorge Cominguez (1989), "On Choosing Between Two Nonlinear Models Estimated Robustly: Some Monte Carlo Evidence," *Communications in Statistics, Simulation and Computation* 18, 179–200.
- Gallant, A. Ronald, and George Tauchen (1989), "Semiparametric Estimation of Conditionally Constrained Heterogeneous Processes: Asset Pricing Applications," *Econometrica* 57, 1091–1120.

- Gallant, A. Ronald, Lars Peter Hansen, and George E. Tauchen (1990), "Using Conditional Moments of Asset Payoffs to Infer the Volatility of Intertemporal Marginal Rates of Substitution," *Journal of Econometrics*, 45, 141–180.
- Nychka, Douglas W., Stephen P. Ellner, Daniel F. McCaffrey, and A. Ronald Gallant (1990), "Statistics for Chaos," *Statistical Computing and Statistical Graphics Newsletter* 1, 4–11.
- Gallant, A. Ronald, David A. Hsieh, and George E. Tauchen (1991), "On Fitting a Recalcitrant Series: The Pound/Dollar Exchange Rate, 1974–83," in Barnett, William A., James Powell, and George E. Tauchen, eds. (1991), *Nonparametric and Semiparametric Methods in Econometrics and Statistics, Proceedings of the Fifth International Symposium in Economic Theory and Econometrics*, Cambridge University Press, Cambridge, Chapter 8, 199–240.
- Gallant, A. Ronald, and Geraldo Souza (1991), "On the Asymptotic Normality of Fourier Flexible Form Estimates," *Journal of Econometrics* 50, 329–353.
- Eastwood, Brian J., and A. Ronald Gallant (1991), "Adaptive Rules for Semiparametric Estimators That Achieve Asymptotic Normality," *Econometric Theory* 7, 307–340.
- Gallant, A. Ronald (1991), "Comment on B. Potscher and I. Prucha 'Basic Structure of the Asymptotic Theory in Dynamic Nonlinear Econometric Models'" *Econometric Reviews* 10, 333–335.
- Ellner, Stephen P., A. Ronald Gallant, Daniel F. McCaffrey, and Douglas W. Nychka (1991), "Convergence Rates and Data Requirements for Jacobian-based Estimates of Lyapunov Exponents from Data," *Physics Letters A* 153, 357–363.
- Gallant, A. Ronald, and George Tauchen (1992), "A Nonparametric Approach to Nonlinear Time Series Analysis: Estimation and Simulation," in Brillinger, David, Peter Caines, John Geweke, Emanuel Parzen, Murray Rosenblatt, and Murad S. Taqqu eds. (1992), *New Directions in Time Series Analysis, Part II*. Springer-Verlag, New York, 71–92.
- Gallant, A. Ronald and Halbert L. White Jr. (1992) "On Learning the Derivatives of an Unknown Mapping with Multilayer Feedforward Networks," *Neural Networks* 5, 129–138. Revised and reprinted in White Jr., Halbert L. (1992), *Artificial Neural Networks*, Blackwell, Oxford UK, 206–223.
- McCaffrey, Daniel F., Stephen P. Ellner, A. Ronald Gallant, and Douglas W. Nychka (1992), "Estimating the Lyapunov Exponent of a Chaotic System with Nonparametric Regression," *Journal of the American Statistical Association* 87, 682–695.
- Gallant, A. Ronald, Peter E. Rossi, and George E. Tauchen (1992), "Stock Prices and Volume," *The Review of Financial Studies* 5, 199–242.
- Nychka, Douglas W., Stephen P. Ellner, A. Ronald Gallant, and Daniel F. McCaffrey (1992), "Finding Chaos in Noisy Systems," *Journal of the Royal Statistical Society B* 54, 399–426.
- Davidian, Marie, and A. Ronald Gallant (1992), "Smooth Nonparametric Maximum Likelihood Estimation for Population Pharmacokinetics, with Application to Quinidine," *Journal of Pharmacokinetics and Biopharmaceutics* 20, 529–556.
- Davidian, Marie, and A. Ronald Gallant (1993), "The Nonlinear Mixed Effects Model with a Smooth Random Effects Density," *Biometrika* 80, 475–488.
- Gallant, A. Ronald, Peter E. Rossi, and George E. Tauchen (1993), "Nonlinear Dynamic Structures," *Econometrica* 61, 871–907.
- Bansal, Ravi, A. Ronald Gallant, Robert Hussey, and George Tauchen (1993), "Computational Aspects of Nonparametric Simulation Estimation," in Belsley, David A., ed. (1993), *Computational Techniques for Econometrics and Economic Analysis*, Kluwer Academic Publishers, Boston, 3–22.

- McCaffrey, Daniel F., and A. Ronald Gallant (1994), “Convergence Rates for Single Hidden Layer Feedforward Networks,” *Neural Networks* 7, 147–158.
- Ellner, Stephen P., A. Ronald Gallant, and James Theiler (1995), “Detecting Nonlinearity and Chaos in Epidemic Data,” in Mollison, Dennis, ed. (1995), *Epidemic Models: Their Structure and Relation to Data*, Cambridge University Press, Cambridge, UK, 229–247.
- Bansal, Ravi, A. Ronald Gallant, Robert Hussey, and George Tauchen (1994), “Nonparametric Estimation of Structural Models for High-Frequency Currency Market Data,” *Journal of Econometrics* 66, 251–287.
- Barnett, William A., A. Ronald Gallant, Melvin J. Hinich, Jochen A. Jungeilges, Daniel T. Kaplan, and Mark J. Jensen (1995), “Robustness of Nonlinearity and Chaos Tests to Measurement Error, Inference Method, and Sample Size,” *Journal of Economic Behavior and Organization* 27, 301–320.
- Barnett, William A., A. Ronald Gallant, Melvin J. Hinich, and Jochen A. Jungeilges (1996), “Comparisons of the Available Tests for Nonlinearity and Chaos,” in Barnett, William A., Giancarlo Gandolfo, and Claude Hillinger eds. (1996), *Dynamic Disequilibrium Modeling: Theory and Applications*, Cambridge University Press, Cambridge, 313–346.
- Barnett, William A., A. Ronald Gallant, Melvin J. Hinich, Jochen A. Jungeilges, Daniel T. Kaplan, and Mark J. Jensen (1996), “An Experimental Design to Compare Tests of Nonlinearity and Chaos,” in Barnett, William A., Alan P. Kirman, and Mark Salmon, eds. (1996), *Nonlinear Dynamics and Economics*, Cambridge University Press, Cambridge, 163–190.
- Fenton, Victor M., and A. Ronald Gallant (1996), “Convergence Rates of SNP Density Estimators,” *Econometrica* 64, 719–727.
- Fenton, Victor M., and A. Ronald Gallant (1996), “Qualitative and Asymptotic Performance of SNP Density Estimators,” *Journal of Econometrics* 74, 77–118.
- Gallant, A. Ronald, and George Tauchen (1996), “Which Moments to Match?,” *Econometric Theory* 12, 657–681.
- Gallant, A. Ronald, and George Tauchen (1996), “Specification Analysis of Continuous Time Models in Finance,” in Rossi, Peter, ed. (1996) *Modeling Stock Market Volatility: Bridging the Gap to Continuous Time*, Academic Press, New York, 357–384.
- Gallant, A. Ronald, David Hsieh, George Tauchen (1997), “Estimation of Stochastic Volatility Models with Diagnostics,” *Journal of Econometrics* 81, 159–192.
- Gallant, A. Ronald, and Jonathan R. Long (1997), “Estimating Stochastic Differential Equations Efficiently by Minimum Chi-Squared,” *Biometrika* 84, 125–141.
- Gallant, A. Ronald, and George Tauchen (1997), “Estimation of Continuous Time Models for Stock Returns and Interest Rates” *Macroeconomic Dynamics* 1, 135–168.
- Barnett, William A., A. Ronald Gallant, Melvin J. Hinich, Jochen A. Jungeilges, Daniel T. Kaplan, and Mark J. Jensen (1998), “A Single-Blind Controlled Competition Among Tests for Nonlinearity and Chaos,” *Journal of Econometrics* 82, 157–192.
- Gallant, A. Ronald, and George Tauchen (1998), “Reprojecting Partially Observed Systems with Application to Interest Rate Diffusions,” *Journal of the American Statistical Association* 93, 10–24.
- Ellner, S. P., B. A. Bailey, G. V. Bobashev, A. R. Gallant, B. T. Grenfell, and D. W. Nychka (1998), “Noise and Nonlinearity in Measles Epidemics: Combining Mechanistic and Statistical Approaches to Population Modeling,” *The American Naturalist* 151, 425–440.
- Gallant, A. Ronald, and George Tauchen (1999), “The Relative Efficiency of Method of Moments Estimators,” *Journal of Econometrics* 92, 149–172.

- Gallant, A. Ronald, Chien-Te Hsu, and George Tauchen (1999) “Using Daily Range Data to Calibrate Volatility Diffusions and Extract the Forward Integrated Variance” *The Review of Economics and Statistics* 81(4), 617–631.
- Fleissig, Adrian R., A. Ronald Gallant, and John J. Seater (2000), “Separability, Aggregation, and Euler Equation Estimation,” *Macroeconomic Dynamics* 4, 547–572.
- Ahn, Dong-Hyun, Robert F. Dittmar, and A. Ronald Gallant (2002), “Quadratic Term Structure Models: Theory and Evidence,” *The Review of Financial Studies* 15, 243–288.
- Aguirre-Torres, Victor, and A. Ronald Gallant (2001), “Testing Separate Dynamic Nonlinear Econometric Models” in G.I Schueler and P.D. Spanos (eds) (2001), *Monte Carlo Simulation* A. A. Balkema, Rotterdam, 423–430.
- Durham, Garland B., and A. Ronald Gallant (2002), “Numerical Techniques for Maximum Likelihood Estimation of Continuous-Time Diffusion Processes,” *Journal of Business and Economic Statistics* 20, 297–316.
- Ahn, Dong-Hyun, Robert F. Dittmar, A. Ronald Gallant, and Bin Gao (2003), “Purebred or Hybrid?: Reproducing the Volatility in Term Structure Dynamics,” *Journal of Econometrics* 116, 147–180.
- Coppejans, Mark, and A. Ronald Gallant (2002), “Cross-Validated SNP Density Estimates,” *Journal of Econometrics* 110, 27–65.
- Chernov, Mikhail, A. Ronald Gallant, Eric Ghysels, and George Tauchen (2003), “Alternative Models for Stock Price Dynamics,” *Journal of Econometrics* 116, 225–257.
- Gallant, A. Ronald (2007), “Comment” on the *JBES* Invited Paper entitled “On the Fit of New-Keynesian Models,” authored by Marco Del Negro, Frank Schorfheide, Frank Smets, and Raf Wouters. *Journal of Business and Economic Statistics* 25. 151–152.
- Bansal, Ravi, A. Ronald Gallant, and George Tauchen (2007), “Rational Pessimism, Rational Exuberance, and Asset Pricing Models,” *Review of Economic Studies* 74, 1005–1033.
- Gallant, A. Ronald, and Han Hong (2007), “A Statistical Inquiry into the Plausibility of Recursive Utility,” *Journal of Financial Econometrics* 5, 523–590.
- Cheng, Ai-ru (Meg), A. Ronald Gallant, Chuanshu Ji, and Beom S. Lee (2008), “A Gaussian Approximation Scheme for Computation of Option Prices in Stochastic Volatility Models,” *Journal of Econometrics* 146, 44–58.
- Gallant, A. Ronald (2008), “SNP: Nonparametric Time Series Analysis,” in Blume, Larry, and Steven Durlauf, eds. (2008), *The New Palgrave, 2nd edition*, Palgrave Macmillan Ltd., Houndmills, UK.
- Gallant, A. Ronald, and Robert E. McCulloch (2009), “On the Determination of General Scientific Models with Application to Asset Pricing,” *Journal of the American Statistical Association* 104, 117–131.
- Gallant, A. Ronald, and George Tauchen (2010), “Simulated Score Methods and Indirect Inference for Continuous-time Models,” in Yacine Aït-Sahalia and Lars Peter Hansen, eds. (2010), *Handbook of Financial Econometrics, Volume 1 — Tools and Techniques* Elsevier/North-Holland, Amsterdam, 427–478.
- Aldrich, Eric M., Jesús Fernández-Villaverde, A. Ronald Gallant, and Juan F. Rubio-Ramírez (2011), “Tapping the Supercomputer Under Your Desk: Solving Dynamic Equilibrium Models with Graphics Processors,” *Journal of Economic Dynamics and Control* 35, 386–393.
- Aldrich, Eric M., and A. Ronald Gallant (2011), “Habit, Long-Run Risks, Prospect? A Statistical Inquiry,” *Journal of Financial Econometrics* 9, 589–618.

BOOKS

- Gallant, A. Ronald (1987), *Nonlinear Statistical Models*, John Wiley and Sons, New York, 610 pages. ISBN 0-471-80260-3
- Gallant, A. Ronald, and Halbert L. White, Jr. (1987), *A Unified Theory of Estimation and Inference for Nonlinear Dynamic Models*, Basil Blackwell Ltd., Oxford, 155 pages. ISBN 0-631-15765-4
- Gallant, A. Ronald (1997), *An Introduction to Econometric Theory: Measure Theoretic Probability and Statistics with Applications to Economics*, Princeton University Press, Princeton NJ, 208 pages. ISBN 0-691-01645-3

EDITED VOLUMES

- Gallant, A. Ronald, and Thomas M. Gerig, eds. (1978), *Proceedings of Computer Science and Statistics: Eleventh Annual Symposium on the Interface*. Institute of Statistics, North Carolina State University, Raleigh, North Carolina, 411 pages.
- Barnett, William A., and A. Ronald Gallant, eds. (1986), "New Approaches to Modeling, Specification Selection, and Econometric Inference", *Journal of Econometrics* 30, 474 pages. Reprinted as Barnett, William A., and A. Ronald Gallant, eds. (1990), *New Approaches to Modeling, Specification Selection, and Econometric Inference, Proceedings of the First International Symposium in Economic Theory and Econometrics*, Cambridge University Press, Cambridge, UK, 474 pages. ISBN 0-521-38465-6
- Bierens, Herman J., and A. Ronald Gallant (1997), *Nonlinear Models*, Elgar Publishing, Ltd., Cheltenham, UK, Volume I, 502 pages, Volume II, 477 pages. ISBN 1-858-98382-7

PAPERS

- Gallant, A. Ronald. "Some Arguments Against the Use of Statistical Packages in Teaching Statistical Methods," *Proceedings of Computer Science and Statistics: Seventh Annual Symposium on the Interface*, October 1973.
- Gallant, A. Ronald, and Thomas M. Gerig. "Computing Methods for Linear Models Subject to Linear Parametric Constraints," Invited paper, American Statistical Association, Annual Meeting, St. Louis, Missouri, August 1974.
- Gallant, A. Ronald, and Thomas M. Gerig. "Computing Methods for Linear Models Subject to Linear Parametric Constraints," *Proceedings of Computer Science and Statistics: Eighth Annual Symposium on the Interface*, February 1975.
- Gallant, A. Ronald. "The Theory of Nonlinear Regression as it Relates to Segmented Polynomial Regressions with Estimated Join Points," N.B.E.R. Workshop on Segmented and Switching Regressions, Madison, Wisconsin, June 1974.
- Gallant, A. Ronald. "Confidence Intervals for the Parameters of a Nonlinear Regression Model," Invited paper, American Statistical Association, Annual Meeting, Atlanta, Georgia, August 1975.
- Gallant, A. Ronald. "The Role of Computers in the Teaching of Statistics," Discussion paper, American Statistical Association Annual Meeting, Boston, Massachusetts, August 1976.
- Gallant, A. Ronald. "Explicit Estimators of Parametric Functions in Nonlinear Regression," The Fourteenth NBER-NSF Seminar on Bayesian Inference in Econometrics, Holmdel, New Jersey, June 1977.
- Gallant, A. Ronald. "Nonlinear Regression," Southern Regional Education Board, Summer Research Conference in Statistics, Arkadelphia, Arkansas, June 1979.

- Gallant, A. Ronald. "Large Sample Inference for Nonlinear Regression Models," Invited Paper, Institute of Mathematical Statistics Special Topics Meeting on Regression Analysis, Boulder, Colorado, October 1979.
- Gallant, A. Ronald. "On the Unification of the Asymptotic Theory of Nonlinear Econometric Models," Contributed paper, 1980 World Congress of the Econometric Society, Aix-en-Provence, France, August 1980.
- Gallant, A. Ronald. "On the Bias in Flexible Functional Forms and an Essentially Unbiased Form: The Fourier Flexible Form," Invited paper, Fall 1980 Econometric Society North American Meeting, Denver, Colorado, September 1980.
- Gallant, A. Ronald. "Semi-Nonparametric Regression: Consumer Demand Applications," Invited paper, American Statistical Association Annual Meeting, Toronto, Canada, August 1983.
- Gallant, A. Ronald. "The Fourier Flexible Form," Invited paper, American Agricultural Economics Association and Econometric Society, 1983 Allied Social Science Association Meetings, San Francisco, December 1983
- Gallant, A. Ronald, and John F. Monahan. "Explicitly Infinite Dimensional Bayesian Analysis of Production Technologies," New Approaches to Modeling, Specification Selection and Econometric Inference, Austin, Texas, May 1984. The Twenty-ninth NBER-NSF Seminar on Bayesian Inference in Econometrics, New Brunswick, New Jersey, October 1984.
- Gallant, A. Ronald, and Douglas W. Nychka. "Seminonparametric Maximum Likelihood Estimation," Summer Workshop of the Econometric Society on the Recent Developments of Non-Linear Asymptotic Econometric Methods, INSEE, Paris, France, July 1985.
- Gallant, A. Ronald. "Identification and Consistency in Semi-Nonparametric Regression," Invited paper, 1985 World Congress of the Econometric Society, Cambridge, Massachusetts, August 1985.
- Gallant, A. Ronald, and George Tauchen. "Seminonparametric Estimation of Conditionally Constrained Heterogeneous Processes: Asset Pricing Applications," Conference on "Testing Econometric Models of Intertemporal Choice," jointly sponsored by The Econometric Society and NORC, Chicago, Illinois, October 1986. Conference on "Semiparametric and Nonparametric Inference," University of Western Ontario, London, Ontario, May 1987. NSF-NBER Seminar on Time Series, Raleigh, North Carolina, October 1987.
- Gallant, A. Ronald. "Nonlinear Statistical Models," 42nd Annual Conference on Applied Statistics, Newark, New Jersey, December 1987.
- Gallant, A. Ronald. "Nonlinear Simultaneous Equations Models," Invited paper, SUGI-13, Orlando, Florida, March 1988.
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- Gallant, A. Ronald, “Discussion of the JBES Invited Paper, On the Fit of New-Keynesian Models,” by Marco Del Negro, Frank Schorfheide, Frank Smets, and Raf Wouters. American Statistical Association, Annual Meeting, Seattle WA, August 6–10, 2006.
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- Gallant, A. Ronald, “Why? Discussion of Rob Engle’s Models of Dynamics Uncertainty,” Statistics Day, University of Maryland, College Park, Maryland, April 15, 2005.
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- Gallant, A. Ronald, “Discussion of Multivariate Realized Kernels,” by Ole Barndorff-Nielsen, Peter Hansen, Asger Lunde, and Neil Shephard. Imperial College Financial Econometrics Conference, London, May 16 – 17, 2008.
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- Gallant, A. Ronald, Discussion of “News and its Impact on Volatility Forecasts before and during the Financial Crisis,” by Xilong Chen and Eric Ghysels Conference on Volatilities and Correlations in Stressed Markets, New York University, Stern School of Business, New York, April 3, 2009.
- Aldrich, Eric, and A. Ronald Gallant, “Habit, Long Run Risk, Prospect? A Statistical Inquiry” Stanford Institute for Theoretical Economics, Segment 3: Econometric Analysis of High-Frequency Data and the Impact of Economic News, Stanford University, Stanford CA, June 27 – 28. Econometrics, Time Series Analysis, and Systems Theory – A Conference in Honor of Manfred Deistler, Institute for Advanced Studies, Vienna, Austria, June 18–20, 2009. Methods and Applications of DSGE Models, Federal Reserve Bank of Philadelphia and NBER, Philadelphia, October 9–10, 2009 “Quantitative Methods in Finance A Bayesian Perspective,” The University of Texas, McCombs School of Business, December 4, 2009 First French Econometrics Conference, Celebrating Alain Monfort’s Contribution to Econometrics, Toulouse School of Economics, Toulouse, France, December 14–15, 2009; 2009 (EC)2-meeting: Real Time Econometrics, CREATES, School of Economics and Management, Aarhus University, Aarhus Denmark, 18–19 December 2009
- Gallant, A. Ronald, Han Hong, and Ahmed Khwaja, “Bayesian Estimation of a Dynamic Game with Endogenous, Partially Observed, Serially Correlated State,” Conference in Honor of Halbert L. White, Jr., Causality, Prediction, and Specification Analysis: Recent Advances and Future Directions, University of California at San Diego, May 6 – 7, 2011. Nonlinear and Financial Econometrics Conference, A

Tribute to A. Ronald Gallant, Toulouse School of Economics, May 19-21, 2011. Triangle Econometrics Conference, December 2011, Research Triangle Park.

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DISSERTATIONS SUPERVISED

Joao G. da Silva, 1975, "The Analysis of Cross-Sectional Time Series Data."

Sonia Balet-Lawrence, 1975, "Estimation of the Parameters in an Implicit Model by Minimizing the Sum of Absolute Values of Order p ."

Geraldo da Silva e Souza, 1980, "Statistical Inference in Nonlinear Models: a Pseudo Likelihood Approach."

Jose Francisco Burguete, 1981, "Asymptotic Theory of Instrumental Variables in Nonlinear Regression."

Victor Aguirre-Torres, 1982, "Testing Non-nested Multivariate Nonlinear Regression Models with and without Specification of the Error Distribution."

Ibrahim Elbadawi, 1983, "Semi-nonparametric Estimation of Consumer Demand Systems."

Brian James Eastwood, 1987, "Confidence Interval Construction in Semi-nonparametric Regression Estimation."

Russell Dean Wolfinger, 1989, "Rates of Convergence and Asymptotic Normality in Semi-nonparametric Regression."

Daniel Francis McCaffrey, 1991, "Estimating Lyapunov Exponents with Nonparametric Regression and Convergence Rates for Feedforward Single Hidden Layer Networks."

Victor M. Fenton, 1992, "Rates of Convergence of Hermite Expansion Density Estimators."

Jonathan Robert Long, 1995, "Efficient Generalized Method of Moments Estimation of Structural Models."

Alan Philip Ker, 1996, "Rating and Yield Predicting Procedures for the Group Risk Federal Crop Insurance Program: A Nonparametric Approach."

Sarbashis Ghosh, 1997, "Implications of Intertemporally Dependent Asset Pricing Models for Macro Time Series Data."

Garland Bennett Durham, 2001, "Likelihood-Based Estimation of Continuous-Time Diffusion Models with Application to Finance," University of Iowa.

Ai-ru Cheng, 2004, "Essays on Financial Economics." University of California, Santa Cruz.

Yuriy Kitsul, 2005, "Essays in Financial Econometrics," Georgia State University.

Mohammad R. Jahan-Parvar, 2006, "Essays in Financial Econometrics," East Carolina University.

Hao Chen, 2011, "Structural Estimation Using Sequential Monte Carlo Methods," SAS Institute

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GRANTS AND CONTRACTS

Statistical Reporting Service, U. S. Department of Agriculture, Cooperative Research Agreement No. 12-18-04-8-1491-X. "Crop Discrimination by Means of Statistical Analysis of Digitized Aerial Photographs," 1972. (Co-investigator with T. M. Gerig), \$4,000.

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North Carolina Agricultural Experiment Station Project No. NC03641. "Statistical Methods for Continuous Time Demand Systems with Application to Electricity Pricing," 1979.

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National Science Foundation Grant No. SES 80-14239. "Instrumental Variables Estimators for Nonlinear Models," 1980, \$60,220.

- National Science Foundation Grant No. SES 82-07362. “Nonlinear Regression with Infinitely Many Parameters,” 1982, \$46,184.
- National Science Foundation Grant No. DMS 84-04511. “Acquisition of Mathematical Sciences Research Equipment,” (Co-investigator with John F. Monahan et. al.) 1984, \$45,000
- North Carolina Agricultural Experiment Station Project No. NC03879. “Seminonparametric Demand Analysis,” 1984.
- National Science Foundation Grant No. SES 85-07829. “Seminonparametric and Finite Dimensional Nonlinear Econometric Inference,” 1985, \$88,610.
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- National Science Foundation Grant No. SES 8808015. “Toward Accurate Inference in Nonlinear Econometrics,” 1988, \$134,875.
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- National Science Foundation Grant No. SES 0000176. “Extensions and Applications of Efficient Method of Moments,” 2000, \$234,404.
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SEMINARS

- “Statistical Inference for Nonlinear Regression Models”
 Iowa State University, Ames, 1971.
 American Telephone and Telegraph Company, New York City, 1971.
 Arizona State University, Tempe, 1971.
 Texas A & M University, College Station, 1971.
 University of Rhode Island, Providence, 1971.
- “Seemingly Unrelated Nonlinear Regressions”
 North Carolina State University, Raleigh, 1973.
 University of Southern Illinois, Carbondale, 1974.
- “Nonlinear Regression with Autoregressive Errors”
 University of Chicago, Chicago, 1975.
- “Confidence Intervals for the Parameters of a Nonlinear Model”
 University of Chicago, Chicago, 1975.
- “Nonlinear Regression Methods”
 University of Illinois, Champaign-Urbana, 1976.
 Bell Laboratories, Holmdel, New Jersey, 1977.
 Institut National de la Statistique et des Etudes Economique, Paris, France, 1978.

- “Explicit Estimators for Nonlinear Models”
 State University of New York at Buffalo, 1978.
 Universite d’Aix/Marseille III, Aix-en-Provence, France, 1978.
 John Hopkins University, Baltimore, Maryland, 1978.
 North Carolina State University, Raleigh, 1978.
- “Statistical Inference for a System of Simultaneous, Nonlinear, Implicit Equations in the Context of Instrumental Variables Estimation”
 Princeton University, Princeton, New Jersey, 1978.
 Harvard University, Cambridge, Massachusetts, 1978.
 Universite d’Aix/Marseille III, Aix-en-Provence, France, 1978.
- “Large Sample Inference for Nonlinear Regression Models”
 Universidad Nacional Autonoma de Mexico, Mexico City, 1981.
- “On the Bias in Flexible Functional Forms and an Essentially Unbiased Form”
 Triangle Econometrics Workshop, Research Triangle Park, NC, 1979.
 North Carolina State University, Raleigh, 1980.
 Harvard University, Cambridge, Massachusetts, 1981.
 Colegio de Postgraduados, Chapingo, Mexico, 1981.
- “Is the Theory of Demand in Agreement with the Facts”
 Atlanta Chapter of the American Statistical Association, 1980.
 Atlanta University, Atlanta, Georgia, 1980.
 Kennesaw College, Atlanta, Georgia, 1980.
 Oglethorpe College, Atlanta, Georgia, 1980.
 Agnes Scott College, Atlanta, Georgia, 1980.
 Elizabeth City State College, Elizabeth City, NC, 1982.
- “An Overview of Linear and Nonlinear Two Stage Least Squares”
 Empresa Brasileira de Pesquisa Agropecuaria, Brasilia, Brazil, 1981.
- “Unbiased Determination of Production Technologies”
 Cornell University, Ithaca, New York, 1981.
 University of Chicago, Chicago, Illinois, 1981.
 University of Southern California, Los Angeles, California, 1981.
 University of California at Los Angeles, 1981.
 University of California at San Diego, 1981.
 Institut National de la Statistique et des Etudes Economique, Paris, 1982.
 University of Texas, Austin, Texas, 1983.
 Northwestern University, Evanston, Illinois, 1983.
 Texas A&M University, College Station, Texas, 1983.
 University of Illinois, Champaign-Urbana, Illinois, 1983.
 Carnegie-Mellon University, Pittsburgh, Pennsylvania, 1983.
- “A Unified Asymptotic Theory of Nonlinear Statistical Models” “
 Stanford University, Stanford, California, 1982.
 North Carolina State University, Raleigh, 1982.
 Iowa State University, Ames, Iowa, 1982.
 Northwestern University, Evanston, Illinois, 1982.
 University of Chicago, Chicago, Illinois, 1982.
 London School of Economics, London, England, 1984.
- “Empirical Determination of the Optimal Time-of-Day Price of Electricity: A Continuous Time Model with a Demand Charge”
 University of Chicago, Chicago, Illinois, 1983.
 Northwestern University, Evanston, Illinois, 1983.
 Bell Laboratories, Murray Hill, New Jersey, 1983.

- “On Choosing Between Two Nonlinear Models Estimated Robustly”
 University of Alberta, Edmonton, Alberta, Canada, 1982.
 University of Wisconsin, Madison, Wisconsin, 1982.
 University of Chicago, Chicago, Illinois, 1982.
 Travenol Laboratories, Round Lake, Illinois, 1983.
 Texas A&M University, College Station, Texas, 1983.
- “Consistency in Semi-Nonparametric Regression”
 Princeton University, Princeton, New Jersey, 1984.
 Yale University, New Haven, Connecticut, 1984.
 Cornell University, Ithaca, New York, 1984.
 University of Toronto, Toronto, Ontario, Canada, 1984.
 Northwestern University, Evanston, Illinois, 1985.
- “Explicitly Infinite Dimensional Bayesian Analysis of Production Technologies”
 McMaster University, Hamilton, Ontario, Canada, 1984.
- “Semi-Nonparametric Maximum Likelihood Estimation”
 University of Chicago, Chicago, Illinois, 1985.
 Harvard University, Cambridge, Massachusetts, 1986.
 Virginia Polytechnic Institute & State University, Blacksburg, VA, 1986.
 Triangle Econometrics Workshop, Research Triangle Park, NC, 1986.
 Universidad Nacional Autonoma de Mexico, Mexico City, 1986.
- “Nonlinear Simultaneous Equations Methods”
 Universidad Nacional Autonoma de Mexico, Mexico City, 1986.
- “Seminonparametric Estimation of Conditionally Constrained Heterogeneous Processes: Asset Pricing Applications”
 North Carolina State University, 1987.
 University of California, San Diego, 1987.
 University of Iowa, Iowa City, 1987.
 Harvard University, Cambridge, Massachusetts, 1987.
 Cornell University, Ithaca, New York, 1987.
 Rochester University, Rochester, New York, 1987.
 Purdue University, West Lafayette, Indiana, 1988.
 University of Illinois, Champaign-Urbana, Illinois, 1988.
- “Adaptive Truncation Rules for Seminonparametric Estimators That Achieve Asymptotic Normality”
 University of Montreal, Montreal, Quebec, 1987.
 University of Chicago, Chicago, Illinois, 1988.
 Northwestern University, Evanston, Illinois, 1988.
 University of Wisconsin, Madison, Wisconsin, 1988.
 Duke University, Durham, North Carolina, 1989.
- “On Fitting a Recalcitrant Series: The Pound/Dollar Exchange Rate, 1974-83”
 University of Chicago, Chicago, Illinois, 1988.
 North Carolina State University, Raleigh, North Carolina, 1988.
 Columbia University, New York, New York, 1988.
 University of Toronto, Toronto, Ontario, Canada, 1988.
 Queen’s University, Kingston, Ontario, Canada, 1988.
 Statistics Canada, Ottawa, Ontario, Canada, 1988.
 University of Washington, Seattle, Washington, 1988.
- “Using Conditional Moments of Asset Payoffs to Infer the Volatility of Intertemporal Marginal Rates of Substitution”
 North Carolina State University, Raleigh, North Carolina, 1989.

- Iowa State University, Ames, Iowa, 1989.
 University of Georgia, Athens, Georgia, 1989.
 University of Virginia, Charlottesville, Virginia, 1990.
- “Stock Prices and Volume”
 Dalhousie University, Halifax, Nova Scotia, Canada, 1990.
- “On Asymptotic Normality of Fourier Flexible Form Estimates”
 University of Chicago, Chicago, Illinois, 1990.
- “A Nonparametric Approach to Nonlinear Time Series Analysis: Estimation and Simulation”
 University of Virginia, Charlottesville, Virginia, 1990.
 North Carolina State University, Raleigh, North Carolina, 1990.
- “Nonlinear Dynamic Structures”
 University of North Carolina, Chapel Hill, 1991.
 Bellcore, Morristown, New Jersey, May 1991.
- “Estimating Lyapunov Exponents with Nonparametric Regression”
 University of Chicago, Chicago, Illinois, May 1991.
 Washington University in St. Louis, St. Louis, Missouri, May 1991.
 Southern Methodist University, Dallas, Texas, January 1992.
 Guelph University, Guelph, Ontario, Canada, January 1992.
- “On Learning the Derivatives of an Unknown Mapping with Multilayer Feedforward Networks”
 Windsor University, Windsor, Ontario, Canada, January 1992.
- “The Nonlinear Mixed Effects Model with a Smooth Random Effects Density”
 University of Chicago, Chicago, Illinois, May 1992.
 Federal Drug Administration, Rockville, Maryland, July 1992.
 Cornell University, Ithaca, New York, September 1992.
- “Nonparametric Estimation of Structural Models for High-Frequency Currency Market Data”
 University of Pennsylvania, Philadelphia, Pennsylvania, October 1992.
 Rochester University, Rochester, New York, November 1992.
 Wayne State University, Detroit Michigan, March 1993.
- “Which Moments to Match”
 University of North Carolina, Chapel Hill, December 1992.
 Boston University, Boston, Massachusetts, January 1993.
- “Some Advances in Statistics that Relate to Dynamic Models”
 University of Michigan, Physics Department, Ann Arbor, March 1993.
- “Detecting Nonlinearity and Chaos in Epidemic Data,”
 University of North Carolina, Chapel Hill, February 1994.
- “Convergence Rates of SNP Density Estimators”
 University of North Carolina, Chapel Hill, January 1994.
 Cornell University, Ithaca, New York, February 1995.
- “Estimation of Stochastic Volatility Models with Suggestive Diagnostics”
 Board of Governors, Federal Reserve System, Washington DC, June 1994.
 University of Limburg, Maastricht, The Netherlands, June 1994.
 University of Tilburg, Tilburg, The Netherlands, June 1994.
- “Estimating Stochastic Differential Equations Efficiently by Minimum Chi-Square”
 University of North Carolina, Chapel Hill, April 1995.
 Pennsylvania State University, University Park, Pennsylvania, September 1995.

- University of Southern California, Los Angeles, September 1995.
 University of Florida, Gainesville FL, 1995.
 Universitat Autònoma de Barcelona, Barcelona, Spain, December 1995.
 University of California, San Diego, February, 1996.
 University of California, Los Angeles, February, 1996.
 University of California, Santa Barbara, February, 1996.
 University of Arizona, Tucson, Arizona, March, 1996.
- “Efficient Method of Moments Estimation with Application to the Estimation of Continuous Time Models of Interest Rates”
 University of Chicago, April, 1996.
 University of Monash, Melbourne, Australia, July, 1996.
 University of New South Wales, Sydney, Australia, July, 1996.
 Australian National University, Canberra, Australia, July, 1996.
 University of California, San Diego, April, 1997.
- “Fitting Models from Science to Data,”
 Instituto Tecnológico Autónomo de México, Mexico City, June 1995.
- “Reprojecting Partially Observed Systems with Application to Interest Rate Diffusions”
 University of North Carolina, Chapel Hill NC, October 1996.
 Carnegie-Mellon University, Pittsburgh, Pennsylvania, March, 1997.
 North Carolina State University, Raleigh NC, December 5, 1997.
- “The Relative Efficiency of Method of Moments Estimators,”
 University of Illinois, Champaign-Urbana, April 1998.
- “Calibrating Volatility Diffusions and Extracting Integrated Volatility,”
 Institute of Economics, Academia Sinica, Taipei, Taiwan, R.O.C., August 14, 1998.
 University of Montreal, Montreal, Quebec, September 17, 1998.
 University of Virginia, Charlottesville, Virginia, September 22, 1998.
 University of North Carolina, Kenan-Flagler School of Business, Chapel Hill NC, October 6, 1998.
 University of North Carolina, Department of Statistics, Chapel Hill NC, October 28, 1998.
 Princeton University, Princeton NJ, November 17, 1998.
- “Quadratic Term Structure Models Theory and Evidence”
 Princeton University, Princeton NJ, March 21, 2000.
 Texas A&M University, College Station TX, September 28, 2000.
 Rice University, Houston TX, September 29, 2000.
- “Efficient Method of Moments”
 Instituto Tecnológico Autónomo de México, Mexico City, March 31, 2000.
- “Alternative Models for Stock Price Dynamics”
 University of Iowa, Iowa City IA, April 23, 2001.
 University of North Carolina at Charlotte, Charlotte NC, April 30, 2001.
- “Effective Calibration”
 University of North Carolina, Chapel Hill NC, October 15, 2001.
 CIRANO, Montreal, Quebec, Canada, October 19, 2001.
 Northwestern University, Evanston IL, October 30, 2001.
 Duke University, Durham NC, January 29, 2002.
 University of Illinois, Urbana IL, February 19, 2002.
- “Rational Pessimism, Rational Exuberance, and Markets for Macro Risks”
 University of Southern California, Los Angeles, October 3, 2002.
 University of Montreal, Montreal, Canada, April 8, 2003.

- “On the Determination of General Scientific Models”
 Duke University, Durham NC, May 19, 2003.
 Vanderbilt University, April 14, 2004.
 Duke University, Durham NC, September 2, 2004.
 Beijing University, Beijing, Peoples Republic of China, October 20, 2004.
 University of California, San Diego, April 26, 2005.
 University of Southern California, Los Angeles, April 29, 2005.
 New York University, NYC, October 24, 2005.
- “Deterministic Chaos and Neural Nets”
 Qingdao University, Qingdao, Peoples Republic of China, October 21, 2004.
- “A Statistical Inquiry into the Plausibility of Recursive Utility,”
 Economics, Financial Econometrics, Duke University, Durham NC, May 22, 2006.
 Fuqua School of Business, Finance, Duke University, Durham NC, August 30, 2006.
 Institute of Statistics and Decision Sciences, Duke University, Durham NC, October 20, 2006.
 Georgia State University, Atlanta GA, February 22, 2007.
 Stanford University, Stanford CA, April 25, 2007.
 University of Iowa, Iowa City IA, August 30, 2007.
- “Estimating Dynamic Games of Complete Information with an Application to the Generic Pharmaceutical Industry,”
 Economics, Financial Econometrics, Duke University, Durham NC, May 5, 2008.
 East Carolina University, Greenville NC, April 11, 2008.
 University of Lausanne, Lausanne, Switzerland, May 8, 2008.
- “Estimating a Dynamic Oligopolistic Game with Serially Correlated Unobserved Production Costs”
 New York University, NYC, March 6, 2009
- “Habit, Long Run Risk, Prospect? A Statistical Inquiry”
 New York University, NYC, March 9, 2009.
 Columbia University, NYC, April 9, 2009.
 Fuqua School of Business, Duke University, Durham NC, July 22, 2009.
 Department of Economics, Duke University, Durham NC, September 14, 2009.
 Fuqua School of Business, Duke University, Durham NC, September 23, 2009.
 Michigan State University, East Lansing, MI, September 18, 2009.
 Rochester University, Rochester, NY, October 30, 2009.
 University of Chicago, Chicago IL, April 14, 2010.
 University of Warwick, Warwick, UK May 19, 2010.
- “Dynamic Entry with Cross Product Spillovers: An Application to the Generic Drug Industry”
 North Carolina State University, Raleigh NC, March 9, 2010.
- “Statistical Assessment of the Uncertainty in Earth Science Models”
 National Center for Atmospheric Research, Boulder Colorado, September 9, 2010.
- “Bayesian Estimation of a Dynamic Game with Endogenous, Partially Observed, Serially Correlated State”
 Stanford University, Stanford CA, December 1, 2010
 University of California at Davis, March 14, 2011
 Boston University of California, Boston MA, July 13, 2011
 Board of Governors of the Federal Reserve, December 12, 2011.
- Sign Switching Behavior of Cross-Country Interest Rate Correlations: Theory and Evidence
 Board of Governors of the Federal Reserve, December 12, 2011.
- Guest Lecture on Climate Models
 Stanford University, Stanford CA, March 15, 2011