

CURRICULUM VITAE

Alastair R. Hall

August 23, 2005

Contact Information:

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Educational Qualifications:

Ph.D. Economics, University of Warwick, UK, 1985
M.Sc. Economics and Econometrics, University of Southampton, UK, 1983
B.A. (First Class Honours Degree) Economics, University of Warwick, UK, 1981

Work Experience:

- Professor, Department of Economics, North Carolina State University, 1992-.
- Associate Professor, Department of Economics, North Carolina State University, 1990–1992.
- Associate Member, Department of Statistics, North Carolina State University, 1987-.
- Assistant Professor, Department of Economics, North Carolina State University, 1985-1990.
- Research Associate on project funded by American Statistical Association at Bureau of the Census, U.S. Department of Commerce, Washington, DC, 1984-1985.

- Senior Research Fellow, Department of Economics, University of Birmingham, March 1996 - June 1998.
- Visiting Professor, Graduate School of Business, University of Wisconsin-Madison, January 1993 - December 1993.
- Visiting Assistant Professor, Department of Economics, University of Pennsylvania, September 1987 - July 1989.

Publications:

(i) Books:

- *Generalized Method of Moments*, Advanced Texts in Econometrics Series, Oxford University Press, 2005.

(ii) Articles in refereed journals:

- Information in Generalized Method of Moments Estimation and Entropy Based Moment Selection, accepted for publication in *Journal of Econometrics* (with Atsushi Inoue, Kalidas Jana and Changmock Shin).
- Covariance Matrix Estimation and the Limiting Behaviour of the Overidentifying Restrictions Test in the Presence of Structural Instability, *Econometric Theory*, (2003), 19, 962-983 (with Atsushi Inoue and Fernanda Peixe).
- A Consistent Method for the Selection of Relevant Instruments, *Econometric Reviews*, (2003), 22, 269-288 (with Fernanda Peixe).
- The Large Sample Behaviour of the GMM Estimator in Misspecified Models, *Journal of Econometrics*, (2003), 114, 361-394 (with Atsushi Inoue).
- Data Mining and the Selection of Instruments, *Journal of Economic Methodology*, (2000), 7, 265-277 (with Fernanda Peixe).
- GARP, Separability and the Representative Agent, *Macroeconomic Dynamics*, (2000), 4, 324-342 (with Adrian Fleissig and John Seater).
- Two Extensions of Some Recent Tests for Structural Stability, *Structural Change and Economic Dynamics*, (1999), 10, 431-443 (with Amit Sen).
- Structural Stability Testing Based on Generalized Method of Moments Estimators, *Journal of Business and Economic Statistics*, (1999), 17, 335-348 (with Amit Sen).
- Predictive Tests for Structural Change with Unknown Breakpoint, *Journal of Econometrics*, (1997), 82, 209-233 (with Eric Ghysels and Alain Guay).
- On Periodic Structures and Testing for Seasonal Unit Roots, *Journal of the American Statistical Association*, (1996), 91, 1551-1559 (with Eric Ghysels and Hahn Lee).
- Judging Instrument Relevance in Instrumental Variables Estimation, *International Economic Review*, (1996), 37, 283-298 (with Glenn Rudebusch and David Wilcox).
- Residual Autocovariances and Unit Root Tests Based on Instrumental Variable Estimators from Time Series Regression Models, *Journal of Time Series Analysis*, (1995), 16, 555-570.

Publications (continued):

(ii) Articles in refereed journals (continued):

- Testing for a Unit Root with Pretest Data Based Model Selection, *Journal of Business and Economic Statistics*, (1994), 12, 461-470.
- Trying Out for the Team: Do Exhibitions Matter? Evidence from the National Football League, *Journal of the American Statistical Association*, (1994), 89, 1091-1100 (with Lee Craig).
- Order Identification in Misspecified Autoregressive Time Series Models, *Journal of Time Series Analysis*, (1994), 15, 279-284.
- Generalized Predictive Tests and Structural Change Analysis in Econometrics, *International Economic Review*, (1994), 35, 199-230 (with Jean-Marie Dufour and Eric Ghysels).
- Testing for a Unit Root in Time Series Using Instrumental Variable Estimators with Pretest Data Based Model Selection, *Journal of Econometrics*, (1992), 54, 223-250.
- Joint Hypothesis Tests for a Random Walk Based on Instrumental Variable Estimators, *Journal of Time Series Analysis*, 13, (1992), 29-45.
- On Estimating the Speed of Adjustment in Inventory Investment Equations, *Journal of Business and Economic Statistics*, (1991), 9, 441-454 (with Robert Rossana).
- Testing for Unit Roots in Autoregressive Moving Average Models, *Journal of Econometrics*, (1991), 48, 325-354 (with Sastry Pantula).
- The Lagrange Multiplier Test for Normality Against Semi Non-Parametric Alternatives, *Journal of Business and Economic Statistics*, (1990), 8, 417-426.
- Testing Nonnested Euler Conditions with Quadrature-Based Methods of Approximation, *Journal of Econometrics*, (1990), 46, 273-308 (with Eric Ghysels).
- Are Consumption-Based Intertemporal Capital Asset Pricing Models Structural?, *Journal of Econometrics*, (1990), 45 Annals 1990-3, 121-140 (with Eric Ghysels).
- A Test for Structural Stability of Euler Parameters Estimated via the Generalized Method of Moments Estimator, *International Economic Review*, (1990), 31, 355-364 (with Eric Ghysels).
- Testing for a Unit Root in the Presence of Moving Average Errors, *Biometrika*, (1989), 76, 49-56.
- The Information Matrix Test for the Linear Model, *Review of Economic Studies*, (1987), 54, 257-263.

Publications (continued):

(ii) Articles in refereed journals (continued):

- Conditions for a Matrix Kronecker Lemma, *Linear Algebra and Its Applications*, (1986), 76, 271-277.

(iii) Notes in refereed journals:

- Comment on “Testing Target Zone Models Using Efficient Method of Moments” by Chung and Tauchen, *Journal of Business and Economic Statistics*, (2001), 19, 269-271.
- Covariance Matrix Estimation and the Power of the Overidentifying Restrictions Test, *Econometrica*, (2000), 68, 1517-1527.
- Instrumental Variable Based Unit Root Tests When Both ARMA(p,q) Orders are Chosen to be too Large, *Economics Letters*, (1996), 52, 247-255 (with Tae Yoon Lee).
- Discussion of “Induced Seasonality and Production Smoothing Models of Inventory Behavior” by Spencer Krane, *Journal of Econometrics*, (1993), Annals 1993-1, 169-72.
- Order Identification of ARMA Models Based on Instrumental Variable Estimators, *IEEE Transactions on Automatic Control*, (1991), AC-36, 1116-1117.
- Instrument Choice and Tests for a Unit Root, *Economics Letters*, (1991), 35, 161-165 (with Kevin Hassett).
- On the Calculation of the Information Matrix Test in the Normal Linear Regression Model, *Economics Letters*, (1988), 29, 31-35.
- Convergence of the Kalman Filter Gain for a Class of Nondetectable Signal Extraction Problems, *IEEE Transactions on Automatic Control*, (1987), AC-32, 1036-1039 (with Peter Burridge).
- A Simplified Method of Calculating the Score Test for Serial Correlation in Multivariate Models, *Economics Letters*, (1986), 21, 159-161.
- A Simplified Method of Calculating the Distribution Free Cox Test, *Economics Letters*, (1985), 18, 149-151.

(iv) Chapters or sections in books:

- Generalized Method of Moments, in *Companion in Theoretical Econometrics*, B. Baltagi (ed.), Basil Blackwell, Oxford, UK, (2001), 230–255.
- A Nonparametric Approach to Stochastic Discount Factor Estimation, in *Advances in Econometrics: Applying Kernel and Nonparameteric Estimation to Economic Topics (Volume 14)*, R. C. Hill and T. B. Fomby (eds), JAI Press, Stamford, Connecticut, (2000), 155-178 (with Fan Hu and Douglas Nychka).

Publications (continued):

(iv) Chapters or sections in books (continued):

- Hypothesis Testing in Models Estimated by Generalized Method of Moments, in *Generalized Method of Moments Estimation*, L. Matyas (ed.), Cambridge University Press, New York, (1999), 96-127.
- Generalized Method of Moments, *Encyclopedia of Statistical Sciences Update Volume 1*, Samuel Kotz ed., Wiley, New York, (1997), 276-280.
- Some Aspects of Generalized Method of Moments Estimation, in *Handbook of Statistics, Vol. 11: Econometrics*, G.S. Maddala, C.R. Rao and H.D. Vinod (eds.), North Holland, New York, (1993), 393-417.
- An Extension of Quadrature-Based Methods for Solving Euler Equations, *IMA Volume in Mathematics and Its Applications*, Vol. 46: New Directions in Time Series Analysis, Part II, D. Brillinger, P. Caines, Geweke, M. Rosenblatt and M. Taquq (eds.), Springer Verlag, New York, (1993), 147-151 (with Eric Ghysels).

(v) Papers in proceedings:

- Structural Stability Testing in Econometric Models, *American Statistical Association: Proceedings of the Business and Economic Section*, (1996), 219-224 (with Amit Sen).
- Testing for Unit Roots After Data Based Model Selection, *American Statistical Association: Proceedings of the Business and Economic Section*, (1992), 150-154.
- Estimation of a Factor Demand Model Using Census Bureau Establishment Level Data, *American Statistical Association: Proceedings of the Business and Economics Section*, (1985), 14-22 (with Edward Kokkelenberg).

(vi) Book reviews:

- “Periodicity and Stochastic Trends in Economic Time Series” by P. H. Franses, Oxford University Press, (1996), *The Economic Journal*, (1997), 107, 1602-3.
- “Co-integration, Error-Correction and the Econometric Analysis of Non-Stationary Data” by A. Banerjee, J. Dolado, J. Galbraith and D. Hendry, Oxford University Press, (1993), *The Economic Journal*, (1996), 106, 1813.

(vii) Other publications:

- Editors’ Introduction to the Twentieth Anniversary Commemorative Issue of the *Journal of Business and Economic Statistics*, *Journal of Business and Economic Statistics*, (2002), 20, 1-4 (with Eric Ghysels).

Publications (continued):

(vii) Other publications (continued):

- Editors' Introduction to the JBES Twentieth Anniversary Issue on the Generalized Method of Moments, *Journal of Business and Economic Statistics*, (2002), 20, 441 (with Eric Ghysels).
- Interview with Lars Peter Hansen, *Journal of Business and Economic Statistics*, (2002), 20, 442-447 (with Eric Ghysels).
- Interview with Christopher A. Sims, *Journal of Business and Economic Statistics*, (2002), 20, 448-449 (with Eric Ghysels).

Current Research Papers:

- The Mean Squared Error of the Instrumental Variables Estimator when the Disturbance has an Elliptical Distribution, April, 2000, revised December, 2004, (with Kostas Kyriakoulis and Fernanda Peixe).
- Non-nested Testing in Models Estimated by Generalized Method of Moments, May, 2005, (with Denis Pelletier).
- Entropy Based Moment Selection in the Presence of Weak Identification, May, 2005, (with Atsushi Inoue and Changmook Shin).
- Long Run Canonical Correlations: Estimation and Testing, February 2005, (with Kalidas Jana).
- Effects of Decoupled Payments on Farm Labour Supply of Dutch Dairy Farmers, June, 2005 (with Daan Ooms).
- Inference Regarding Multiple Structural Changes in Linear Models Estimated via Two Stage Least Squares, April 2005, (with Sanggohn Han).

Professional Activities:

- Co-editor, *Journal of Economic and Business Statistics*, 2001 - 2003.
- Associate editor, *Journal of Financial Econometrics*, 2001 -.
- Associate Editor, *Econometric Reviews*, 2000 -.
- Associate Editor, *Journal of Business and Economic Statistics*, 1992 - 2000.
- Member of the Committee on Publications for the American Statistical Association, 2001 and 2003.

Professional Activities (continued):

- Representative for the Business and Economics Section to the Council of Sections of the American Statistical Association, 2001 - 2003.
- Secretary/Treasurer for the Business and Economics Section of the American Statistical Association, 1999.
- Member of the Adjudication Committee for the Arnold Zellner Thesis prize awarded by the Business and Economic Section of the American Statistical Association, 1999, 2002, 2003.
- Reviewer for *Mathematical Reviews*, 1996 - 2000.
- Referee for *American Economic Review*, *Annales d'Economie et de Statistiques*, *Annals of Statistics*, *Automatica*, *Communications in Statistics*, *Econometrica*, *Econometric Reviews*, *Econometric Theory*, *European Review of Agricultural Economics*, *IEEE Transactions on Automatic Control*, *International Economic Review*, *Journal of Applied Econometrics*, *Journal of Business and Economic Statistics*, *Journal of Econometrics*, *Journal of Empirical Finance*, *Journal of the American Statistical Association*, *Journal of Macroeconomics*, *Journal of Nonparametric Statistics*, *Journal of Statistical Planning and Inference*, *Mathematical and Computer Modelling*, *Oxford Bulletin of Economics and Statistics*, *Review of Economics and Statistics*, *Review of Economic Studies*, *Sankhya*, *Statistics & Probability Letters*, *Technometrics*, *The American Statistician*, *The Manchester School*.
- Grant reviewer for National Science Foundation, Fonds pour la formation de chercheurs et l'aide à la recherche (Fonds FCAR), Quebec, Canada, Social Science and Humanities Research Council of Canada, Economic and Social Science Research Council, United Kingdom, Nederlandse Organisatie voor Wetenschappelijk Onderzoek.
- Manuscript reviewer for Oxford University Press.
- Co-organizer of the Triangle Econometrics Conference, 1999-.
- Member of Program Committee for "A Conference in Honor of Arnold Zellner: Recent Developments in the Theory, Method, and Application of Information and Entropy Econometrics", Washington DC, September 19-21, 2003.
- Co-organizer of the Triangle Econometrics Workshop, 2003-.
- Member of Program Committee for "A Conference in Honor of George Judge: The Second Conference on Information and Entropy Econometrics: Theory, Method and Applications", American University, Washington DC, September 23-25, 2005.
- Member of Adjudication Committee for "Best Article in *Econometric Reviews* in 2002-4".

Curriculum Vitae: Alastair R. Hall, August 23, 2005

Awards

NCSU College of Management Outstanding Teaching Award, 2002.

Professional Associations

Member of: The American Economic Association, The American Finance Association, The American Statistical Association, The Econometric Society.

Grants

- “Generalized Method of Moments Estimation”, Faculty Research and Professional Development Grant, NCSU, spring 1995.
- “Issues of Structural Stability in Time Series Econometrics” funded by F.C.A.R., Quebec, Canada, (project with Jean-Marie Dufour, Eric Ghysels, Marc Hallin, Pierre Perron and Victoria Zinde-Walsh). 1990-1993.

Consulting and Short Term Visiting Appointments

- Visiting Professor, Department of Economics and Management, Wageningen Agricultural University, Wageningen, The Netherlands, June 1-20, 1999.
- Visiting Professor, CentER for Economic Research, Tilburg University, Tilburg, The Netherlands, June 1-25, 1995.
- Consultant, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, DC, November 1-4, 1993.
- Visiting Scholar at the Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, DC, November 12-15, 1991.

Invited Lectures

- *Generalized Method of Moments: Theory and Practice*. Mansholt Graduate School of Social Sciences, Wageningen University, Wageningen, The Netherlands, June 13-17, 2005.
- *Generalized Method of Moments: Theory and Applications*. Mansholt Graduate School of Social Sciences, Wageningen University, Wageningen, The Netherlands, July 8-12, 2002.
- *Generalized Method of Moments*. Department of Economics and Management, Wageningen Agricultural University, Wageningen, The Netherlands, June 14-16, 1999.
- *An Introduction to Generalized Method of Moments*. MSc. level graduate econometrics class, Department of Agricultural and Resource Economics, University of Arizona, Tucson, AZ, March 9, 1999.
- *Generalized Method of Moments Estimation: Inference and Applications*. Netherlands Graduate School of Economics, Center for Economic Research, Tilburg University, May 30 - June 3, 1994.

Invited Lectures (continued)

- *An Introduction to Generalized Method of Moments Estimation*. Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, DC, November 1991.

Conference and Seminar Presentations

- *Long Run Canonical Correlations: Estimation, Inference and Usefulness in Econometric Analysis of Time Series*, (with Kalidas Jana): Southern Economic Association Meeting, Washington DC, November 18-20, 2005.
- *Entropy Based Moment Selection in the Presence of Weak Identification*, (with Atsushi Inoue and Changmook Shin): “A Conference in Honor of George Judge: The Second Conference on Information and Entropy Econometrics: Theory, Method and Applications”, American University, Washington DC, September 23-25, 2005.
- *Inference Regarding Multiple Structural Changes in Linear Models Estimated via Two Stage Least Squares*, (with Sanggohn Han): The Ninth World Congress of the Econometric Society, London, UK, August 18-25, 2005.
- *EU Policy Reform Simulation Based on Panel Data Estimation of On- and Off- Farm Labour Supply Equations for Dutch Dairy Farmers*: American Agricultural Economics Association Annual Meeting, Providence, RI, July 24-27, 2005; EAAE Seminar on “Modelling Agricultural Policies: State of the Art and New Challenges”, February 3-5, 2005, Parma, Italy.
- *Information in Generalized Method of Moments Estimation and Entropy Based Moment Selection*, (with Atsushi Inoue, Kalidas Jana and Changmook Shin): “A Conference in Honor of Arnold Zellner: Recent Developments in the Theory, Method, and Application of Information and Entropy Econometrics”, American University, Washington DC, September 20-21, 2003.
- *A Comparative Study of Three New Methods of Instrument Selection in Econometrics*, (with Kalidas Jana): Southern Economic Association Meetings, San Antonio, TX, November 21-23, 2003; Joint Statistical Meetings, San Francisco, CA, August 3-7, 2003.
- *The Generalized Method of Moments Approach to Econometric Analysis*: The International Biometric Society, Eastern North American Region Meetings, Tampa, FL, March 30-April 2, 2003.
- *Information in Empirical Likelihood and Generalized Method of Moments Estimation*, (with Atsushi Inoue): Montreal Econometrics seminar, Concordia University, Montreal, CA, October 2003; Department of Economics, University of Birmingham, Birmingham, UK, June 2003; NBER/NSF Conference on Weak and/or Many Instruments, MIT, Cambridge, MA; CentER, Tilburg University, Tilburg, The Netherlands, April 2003; Department of Economics, University of Rochester, Rochester NY, March 2003.

Conference and Seminar Presentations (continued)

- *The Mean Squared Error of the Instrumental Variables Estimator when the Disturbance has an Elliptical Distribution*: European Meeting of the Econometric Society, Venice, Italy, August 25-28, 2002.
- *Long Run Canonical Correlations: Estimation and Testing*, (with Kalidas Jana): Southern Economic Association Meeting, Tampa, FL, November 17-19, 2001; Joint Statistical Meetings, Atlanta, GA, August 5-9, 2001.
- *A Canonical Correlations Interpretation of Generalized Method of Moments Estimation with Applications to Moment Selection*, (with Atsushi Inoue): Allied Social Science Meetings, Washington DC, January 2-5, 2003; Triangle Econometrics Conference, Research Triangle, NC, December 7, 2001; NBER-NSF Time Series Conference, Raleigh, NC, September 21-22, 2001; Joint Statistical Meetings, Atlanta, GA, August 5-9, 2001.
- *A Consistent Method for the Selection of Relevant Instruments*, (with Fernanda Peixe): Department of Economics, Virginia Polytechnic Institute, Blacksburg, VA, November 2000; Joint Statistical Meetings, Indianapolis, IN, August 13 - 17, 2000; World Congress of the Econometric Society, Seattle, WA, August 11 - 16, 2000; Sixth Conference of CEMAPRE: Mathematics Applied to Economics and Management, Lisbon, Portugal, June 5-7, 2000; Department of Economics, Michigan State University, East Lansing, MI, November 1999.
- *The Large Sample Behaviour of the GMM Estimator in Misspecified Models*, (with Atsushi Inoue): Joint Statistical Meetings, Indianapolis, IN, August 13 - 17, 2000; Allied Social Science Meetings, Boston, MA January 7-9, 2000; Midwest Econometrics Group Meeting, Iowa State University, Ames IA, October 8-9, 1999.
- *Generalized Method of Moments: a Survey and Some New Results on the Impact of Misspecification*: Department of Statistics, North Carolina State University, Raleigh NC, February 1999.
- *Covariance Matrix Estimation and the Power of the Overidentifying Restrictions Test*: Department of Economics, Cornell University, Ithaca, NY, March 1999; Department of Economics, University of Arizona, Tucson, AZ, March 1999; Department of Economics, Pennsylvania State University, State College, PA, February 1999; Triangle Econometrics Conference, Research Triangle Park, NC, December 11, 1998; Department of Economics, North Carolina State University, October 1998.
- *A Nonparametric Approach to Mutual Fund Performance Evaluation*, (with Fan Hu and Douglas Nychka): Department of Economics, University of Warwick, Coventry, U. K., March, 1998; CREST, INSEE, Malakoff, France, March 1998.

Conference and Seminar Presentations (continued)

- *Testing Portfolio Performance, (with Peter Knez)*: European Meetings of the Econometric Society, Toulouse, France, August 27-30, 1997; Department of Applied Economics, University of Cambridge, Cambridge, U. K., April 1997; Department of Economics, University of Manchester, Manchester, U. K., March 1997; Department of Economics, University of Edinburgh, Edinburgh, U. K., February 1997; Tinbergen Institute, Rotterdam, The Netherlands, February, 1997; Department of Economics, University of Birmingham, Birmingham, U. K., February, 1997.
- *Structural Stability Testing in Models Estimated Via Generalized Method of Moments, (with Amit Sen)*: Nuffield College, Oxford University, Oxford, U. K., May 1997; G.R.E.M.A.Q., Universite de Toulouse, Toulouse, France, May 1997; Department of Econometrics, Tilburg University, Tilburg, The Netherlands, March 1997; Allied Social Science Association Meetings, New Orleans, LA, January 4-6, 1997; Southern Economic Association Annual Conference, Washington D. C., November 1996; Department of Economics, London School of Economics, London, U. K., October, 1996; NBER/NSF Time Series Conference, Rotterdam, The Netherlands, October 17-19, 1996; Nottingham One Day Conference on Time Series Econometrics, University of Nottingham, Nottingham, UK, September 23, 1996; European Meetings of the Econometric Society, Istanbul, Turkey, August 25-29, 1996; Joint Statistical Meetings, Chicago, IL, August 4-8, 1996; ESRC Econometric Study Group Conference, Bristol, U. K., July 11-13, 1996; Department of Agricultural Economics, University of Arizona, Tucson, AZ, April 1996; Department of Economics, East Carolina University, Greenville, NC, March 1996.
- *On Periodic Structures and Testing for Seasonal Unit Roots, (with Eric Ghysels and Hahn Lee)*: Seventh World Congress of the Econometric Society, Tokyo, Japan, August 22-29, 1995.
- *Predictive Tests for Structural Change with Unknown Breakpoint, (with Eric Ghysels and Alain Guay)*: Research Triangle Econometrics Conference, Research Triangle Park, NC, December 8, 1995; Department of Economics, University of Birmingham, Birmingham, U. K., July 1995; Department of Economics, European University Institute, Fiesole, Italy, June 1995; Department of Actuarial Sciences and Econometrics, University of Amsterdam, Amsterdam, The Netherlands, June 1995; CentER for Economic Research, Tilburg University, Tilburg, The Netherlands, June 1995; Department of Economics, North Carolina State University, Raleigh, NC, February 1995; Allied Social Science Meetings, Washington D. C., January 6-8, 1995.
- *GARP, Seperability and the Representative Agent, (with Adrian Fleissig and John Seater)*: Department of Economics, North Carolina State University, Raleigh, NC, November 1994.

Conference and Seminar Presentations (continued)

- *Judging the Quality of Instruments in Instrumental Variables Estimation of the Linear Model, (with Glenn Rudebusch and David Wilcox)*: Second Triangle Econometrics Conference, Research Triangle Park, NC, December 9, 1994; Department of Economics, Universite de Montreal, Montreal, Quebec, Canada, November 1994; Department of Economics, University of Rochester, Rochester, NY, September 1994; Department of Economics, Warwick University, Coventry, U. K., June 1994; Department of Economics, North Carolina State University, Raleigh, NC, March, 1994; Allied Social Science Association Meetings, Boston, MA, January 3-5, 1994.
- *Unit Roots, Model Selection and the Time Series Properties of Inventories*: Research Triangle Econometrics Conference, Research Triangle Park, NC, December 1993; Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, D.C., October 1993; Department of Economics, Wayne State University, Detroit, MI, October 1993; Department of Economics, University of Michigan, Ann Arbor, MI, October 1993.
- *Testing for $I(1)$ in Periodic Time Series, (with Eric Ghysels)*: Midwest Econometric Group Meetings, Urbana-Champaign, IL, September 24-25, 1993; Joint Statistical Meetings, San Francisco, CA, August 8-12, 1993.
- *Testing for Structural Stability of Euler Equations: Applications to Consumption Based Asset Pricing Models*: Department of Finance, University of Wisconsin, Madison WI, March 1993.
- *Unit Root Tests based on Instrumental Variable Estimators*: Department of Statistics, University of Wisconsin-Madison, Madison, WI, March 1993.
- *Unit Root Tests after Data Based Model Selection*: Joint Statistical Meetings, Boston, MA, August 9-13, 1992.
- *An Introduction to Generalized Method of Moments Estimation*: Department of Economics, North Carolina State University, Raleigh, NC, March 1992.
- *An Eigenvalue Based Test for Heteroscedasticity, (with Anil Bera)*: Allied Social Science Association Annual Meeting, New Orleans, LA, January 2-5, 1992.

Conference and Seminar Presentations (continued)

- *Testing for a Unit Root in Time Series with Pretest Data Based Model Selection*: Department of Economics, University of Wisconsin-Madison, Madison, WI, April 1993; Department of Economics, University of Illinois, Urbana-Champaign, IL, April 1992; Department of Economics, University of Pittsburgh, Pittsburgh, PA, April 1992; Department of Economics, University of Texas at Austin, Austin, TX, January 1992; Department of Statistics, North Carolina State University, Raleigh, NC, October 1991; Department of Economics, Southampton University, Southampton, U.K., July 1991; Allied Social Science Association Annual Meeting, Washington, DC, December 28-30, 1990; Department of Economics, North Carolina State University, Raleigh, NC, December 1990.
- *Model Selection and Unit Root Tests Based on Instrumental Variable Estimators*: Sixth World Congress of the Econometric Society, Barcelona, Spain, August 22-28, 1990; Department of Economics, Duke University, Durham, NC, March 1990.
- *On Generalized Method of Moments, Maximum Likelihood and Asymptotic Efficiency, (with Eric Ghysels)*: European Meetings of the Econometric Society, Munich, West Germany, September 4-8, 1989.
- *Generalized Predictive Tests and Structural Change Analysis in Econometrics, (with Jean-Marie Dufour and Eric Ghysels)*: Department of Economics, Southampton University, Southampton, U.K., January 1992; Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, DC, November 1991; Department of Economics, North Carolina State University, Raleigh, NC, October 1991; Allied Social Science Association Annual Meeting, Atlanta, GA, December 28-30, 1989; Canadian Econometrics Study Group Sixth Annual Meeting, Hamilton, Ontario, October 12-14, 1989; Far Eastern Meetings of the Econometric Society, Kyoto, Japan, June 10-11, 1989.
- *Testing for Unit Roots in Autoregressive Moving Average Models using Instrumental Variables Estimators, (with Sastry Pantula and Kevin Hassett)*: North American Summer Meetings of the Econometric Society, Ann Arbor, Michigan, June 21-24, 1989; Department of Economics, University of Pennsylvania, Philadelphia, PA, February 1989; Department of Economics, Columbia University, New York, NY, October 1988; Department of Economics, Universite de Montreal, Montreal, Quebec, September 1988.
- *Are Consumption-Based Intertemporal Capital Asset-Pricing Models Structural?, (with Eric Ghysels)*: European Meetings of the Econometric Society, Munich, West Germany, September 4-8, 1989; NBER Conference on Econometric Methods and Financial Time Series, Boston, MA, March 31-April 1, 1989; The Second Annual Conference of the Canadian Macro Study Group, Universite du Quebec a Montreal, Montreal, Quebec, October 21-23, 1988.

Conference and Seminar Presentations (continued)

- *Lagrange Multiplier Tests for Normality Against Semi Non-Parametric Alternatives*: Allied Social Sciences Association Annual Meeting, New York, NY, December 28-30, 1988; Department of Economics, Princeton University, Princeton, NJ, April 1988; Department of Economics, University of Illinois, Urbana-Champaign, IL, April 1988; Department of Economics, University of Pennsylvania, Philadelphia, PA, March 1988.
- *A Test for Structural Stability of Euler Parameters Estimated via The Generalized Method of Moments Estimator, (with Eric Ghysels)*: The European Meetings of the Econometric Society, Bologna, Italy, August 29 - September 2, 1988.
- *A Test for Nonlinearity of Time Series Based on the Volterra Expansion, (with Paul Kupiec)*: NSF - NBER Seminar on Time Series, Raleigh, NC, October 16-17, 1987.
- *Additional Specification Tests for GMM Estimated Euler Conditions with Macroeconomic Examples, (with Eric Ghysels)*: Canadian Econometrics Study Group Conference on Advances in Econometrics and Modelling, Waterloo, Ontario, September 18-19, 1987; Department of Economics, Universite de Montreal, Montreal, Quebec, May 1987.
- *Testing Nonnested Euler Conditions with Quadrature-Based Methods of Approximation, (with Eric Ghysels)*: North American Summer Meetings of the Econometric Society, University of California, Berkeley, CA, June 24-27, 1987; Department of Economics, Queens University, Kingston, Ontario, May 1987; Department of Economics, Virginia Polytechnic Institute and State University, Blacksburg, VA, April 1987; Research Triangle Econometrics Seminar, Research Triangle Institute, Research Triangle Park, NC, March 1987.
- *Conditions for Asymptotic Analysis in Dynamic Nonlinear Models*: North American Summer Meetings of the Econometric Society, Duke University, Durham, NC, June 25-28, 1986.
- *Estimation of a Factor Demand Model Using Census Bureau Establishment Level Data, (with Edward Kokkelenberg)*: Joint Statistical Meetings, Las Vegas, Nevada, August 5-8, 1985; Statistical Research Division Colloquium Series, Bureau of the Census, U.S. Department of Commerce, Washington, DC, April 1985.
- *Conditions for the Consistency and Asymptotic Normality of Nonlinear FIML When the Error Distribution is Incorrectly Assumed to be Normal*: Department of Economics, University of Pennsylvania, Philadelphia, PA, May 1986; Fifth World Congress of the Econometric Society, Boston, MA, August 17-24, 1985; Department of Economics and Business, North Carolina State University, Raleigh, NC, February 1985; Department of Economics, University of Minnesota, Minneapolis, MN, February 1985; Department of Economics, University of Michigan, Ann Arbor, MI, February 1985; Department of Economics, George Washington University, Washington, DC, January 1985.

Conference and Seminar Presentations (continued)

- *The Information Matrix Test for the Linear Model*: York Conference on Approaches to Econometric Model Building and Testing, York University, York, U.K., September 20-22, 1983; The European Meeting of the Econometric Society, Pisa, Italy, August 29 - September 2, 1983; The Social Science Research Council Econometric Study Group Meeting, Warwick University, Coventry, U.K., July 12-14, 1983.

Teaching Experience

- *Graduate Level*: Econometrics, Time Series Econometrics, Microeconometrics, Advanced Seminar Course in Econometrics; Intermediate Econometrics; Mathematics for Economists; Intermediate Business Statistics.
- *Undergraduate Level*: Introductory Statistics for Business and Economics; Introductory Microeconomics; Introductory Macroeconomics; Introductory Econometrics; Topics in Econometrics.

Graduate Dissertation Committee Work

All at North Carolina State University unless otherwise stated.

Chairperson or Co-Chairperson for:

- Sanggohn Han, Ph.D. candidate Economics and Statistics (co-chair David Dickey).
- Kostas Kyriakoulis, Ph.D. candidate Economics.
- Chagmock Shin, Ph.D., Economics, 2005
Thesis Title: Entropy Based Moment Selection in Generalized Method of Moments.
- Kalidas Jana, Ph.D., Economics, 2005
Thesis Title: Canonical Correlations and Instrument Selection in Econometrics.
- David Doorn, Ph.D., Economics, 2003
Thesis Title: Three Essays on Trend Analysis and Misspecification in Structural Econometric Models.
- Matthew Roberts, Ph.D., Economics, 2001, (co-chair with Barry Goodwin)
Thesis Title: Specification and Estimation of Econometric Models of Asset Prices.
- Fernanda Peixe, Ph.D.(University of Birmingham, U. K.), Economics, 2000.
Thesis Title: Instrument Selection in Econometric Models: Consequences and Methods.
- Fan Hu, Ph.D., Economics, 1997, (co-chair with Douglas Pearce).
Thesis Title: Three Essays in Measuring Mutual Fund Performance.

Curriculum Vitae: Alastair R. Hall, August 23, 2005

Graduate Dissertation Committee Work (continued)

All at North Carolina State University unless otherwise stated.

Chairperson or Co-Chairperson for:

- Amit Sen, Ph.D., Economics and Statistics, 1997, (co-chair with Sastry Pantula).
Thesis Title: New Tests of Structural Stability and Applications to Consumption Based Asset Pricing Models.

Committee member for:

- *Ph.D candidates in Economics*: Roger Aliaga Diaz, Maryam Arabshahi.
- *Ph.D candidate in Agricultural and Environmental Sciences, Wageningen University, NL*: Daan Ooms
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- *Ph.D in Statistics*: Jung Wook Park (2005), Harshavardhana Rao (2004), Zeynep Kalaylioglu (2002), Daniel McCaffrey (1991).