

# HANS HERMANN HALLER

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**Education:** University of Erlangen & Nürnberg (Germany), 1971-1978

Major Field: Mathematics  
Minor Fields: Physics, Law

Degrees: Diplom-Mathematiker, 1976  
Dr. rer. nat., 1978

## **Honors:**

- Mercator Research Professorship of the German Science Foundation (DFG), University of Heidelberg, March-July 2003, June-July 2004.
- Bargaining, Evolution and Networks : A Conference in Honor of Hans Haller, LSU, February 25 - 26, 2011.
- Bargaining, Evolution and Networks: Special Issue in Honor of Hans Haller, *Mathematical Social Sciences*, Volume 64, Issue 2, September 2012.

## **Employment:**

### CURRENT EMPLOYMENT

1986-1992 Assistant Professor of Economics, VPI & SU.  
1992-1997 Associate Professor of Economics, VPI & SU.  
1997-Present Professor of Economics, VPI & SU.

### OTHER OCCUPATIONS

1979 Visiting Assistant, Department of Mathematics, University of Nice (France).  
1979-80 Research Fellow, Department of Mathematics, University of Rennes (France).  
1980-84 Research Staff, Department of Economics, University of Bonn (Germany).  
1982-83 Visiting Scholar, Department of Economics, Harvard University (Cambridge, MA).  
1984-85 Assistant, Department of Economics, University of Mannheim (Germany).  
Fall 1985 Research Staff, Department of Economics, University of Bonn (Germany).  
Fall 1990 Research Fellow, CentER at Tilburg University (Netherlands).  
Fall 1994 Visiting Professor, Institute for Advanced Studies (Vienna, Austria).  
Spring 1995 Senior Research Fellow, CentER at Tilburg University (Netherlands).  
Fall 2002 Visiting Professor, Institute of Economics, University of Copenhagen (Denmark).  
Winter 2003 Visiting Professor, Institute for Advanced Studies (Vienna, Austria).  
Summer 2003 Mercator Professor, Alfred-Weber-Institut, University of Heidelberg (Germany).  
2011-12 Guest Professor, ETH Zurich (Switzerland).  
Fall 2015 Guest Professor, ETH Zurich (Switzerland).

## Experience and Expertise:

Research Interests:	Microeconomic Theory, Allocation under Uncertainty, Game and Bargaining Theory.
Graduate Advising:	51 Internal Doctoral Dissertation Committees (12 Chairs, 10 Co-Chairs), 4 External Doctoral Dissertation Committees
Graduate Teaching:	Mathematics for Economists, Game Theory, Microeconomic Theory, Industrial Organization.
Undergrad Teaching:	Mathematics for Economists, Game Theory, Intermediate Microeconomics, Principles of Microeconomics, Managerial Economics, Financial Markets, Welfare Economics, Information and Incentives, Economics of Organizations, History of Economic Thought, European Economies, Comparative Economic Systems.
Administration:	Director of Graduate Studies, 1993-1994; Department Head, 2007-2011.
Languages:	German (native), English (fluent), Latin, French, Russian (some).

## Publications

### A. Journal Articles

1. H. HALLER: "Networks as Public Infrastructure: Externalities, Efficiency, and Implementation," *Journal of Public Economic Theory* 18 (2016), 193-211.
2. H. GERSBACH, H. HALLER, H. KONISHI: "Household Formation and Markets," *Economic Theory* 59 (2015), 461-507.
3. H. GERSBACH, H. HALLER, J. MÜLLER: "The Macroeconomics of Modigliani-Miller," *Journal of Economic Theory* 157 (2015), 1081-1113.
4. E. BAHREL, H. HALLER: "Cycles with Undistinguished Actions and Extended Rock-Paper-Scissors Games," *Economics Letters* 120 (2013), 588-591.
5. H. GERSBACH, H. HALLER: "A Human Relations Paradox," *Mathematical Social Sciences* 65 (2013), 154-156.
6. H. HALLER: "Network Extension," *Mathematical Social Sciences* 64 (2012), 166-172.
7. H. HALLER: "On the Mixed Extension of a Strategic Game," *Journal of Microeconomics* 1 (June, 2012), 31-43.
8. J. CHOWDHURY, H. HALLER: "Debt Financing and Output Market Behavior," *International Research Journal of Applied Finance* 3 (April, 2012), 480-490. Available at [www.irjaf.com](http://www.irjaf.com).

9. H. GERSBACH, H. HALLER: “ ‘Hard Workers’ and Labor Restrictions,” *Journal of Population Economics* 25 (2012), 469-494.
10. H. GERSBACH, H. HALLER: “Groups, Collective Decisions and Markets,” *Journal of Economic Theory* 146 (2011), 275-299.
11. H. GERSBACH, H. HALLER: “Bargaining cum Voice,” *Social Choice and Welfare* 36 (2011), 199-225.
12. S. CHAKRABARTI, H. HALLER: “An Analysis of Advertising Wars,” *The Manchester School* 79 (2011), 100-124.
13. J. DURIEU, H. HALLER, P. SOLAL: “Nonspecific Networking,” *Games* 2 (2011), 87-113. Accessible at <http://www.mdpi.com/2073-4336/2/1/87/pdf>.
14. S. BERNINGHAUS, H. HALLER: “Local Interaction on Random Graphs,” *Games* 1 (2010), 262-285. <http://www.mdpi.com/2073-4336/1/3/262/pdf>.
15. H. HALLER, R. MILAM: “Protection at Stake,” *Korean Economic Review* 26 (2010), 267-286.
16. H. HALLER, R. LAGUNOFF: “Markov Perfect Equilibria in Repeated Asynchronous Choice Games”, *Journal of Mathematical Economics* 46 (2010), 1103-1114.
17. H. GERSBACH, H. HALLER: “Club Theory and Household Formation,” *Journal of Mathematical Economics* 46 (2010), 715-724.
18. H. GERSBACH, H. HALLER: “Bargaining Power and Equilibrium Consumption”, *Social Choice and Welfare* 33 (2009), 665-690.
19. H. GERSBACH, H. HALLER: “The Affectionate Society: Does Competition for Partners Promote Friendliness?”, *Economic Theory* 40 (2009), 389-403.
20. J. DURIEU, H. HALLER, N. QUEROU, P. SOLAL: “Ordinal Games,” *International Game Theory Review* 10 (2008), 177-194.
21. R. BARON, J. DURIEU, H. HALLER, R. SAVANI, P. SOLAL: “Good Neighbors are Hard to Find: Computational Complexity of Network Formation,” *Review of Economic Design* 12 (2008), 1-19.
22. T. CHOU, H. HALLER: “The Division of Profit in Sequential Innovation for Probabilistic Patents,” *Review of Law & Economics* 3 (2007), 581-609, bepress. Available at: <http://www.bepress.com/rle/vol3/iss2/art14>
23. H. HALLER, J. KAMPHORST, S. SARANGI: “(Non-)Existence and Scope of Nash Networks,” *Economic Theory* 31 (2007), 597-604.
24. S. BERNINGHAUS, H. HALLER, A. OUTKIN: “Neural Networks and Contagion,” *Revue d’Économie Industrielle* 114/115 (2006), 205-224.
25. H. HALLER, A. PAVLOPOULOS: “To Sample or Not to Sample,” *The Manchester School* 74 (2006), 23-39.
26. R. BARON, J. DURIEU, H. HALLER, P. SOLAL: “Complexity and Stochastic Evolution of Dyadic Networks,” *Computers and Operations Research* 33 (2006), 312-327.
27. H. HALLER, S. SARANGI: “Nash Networks with Heterogeneous Links,” *Mathematical Social Sciences* 50 (2005), 181-201.
28. H. GERSBACH, H. HALLER: “When Inefficiency Begets Efficiency,” *Economic Theory* 25 (2005), 105-121.

29. R. BARON, J. DURIEU, H. HALLER, P. SOLAL: "Finding a Nash Equilibrium in Spatial Games is an NP-Complete Problem," *Economic Theory* 23 (2004), 445-454.
30. R. BARON, J. DURIEU, H. HALLER, P. SOLAL: "Control Costs and Potential Functions for Spatial Games," *International Journal of Game Theory* 31 (2002), 541-561.
31. R. BARON, J. DURIEU, H. HALLER, P. SOLAL: "A Note on Control Costs and Logit Rules for Strategic Games," *Journal of Evolutionary Economics* 12 (2002), 563-575.
32. H. HALLER, A. PAVLOPOULOS: "Technological Failure, Economic Success," *International Game Theory Review* 4 (2002), 415-434.
33. H. GERSBACH, H. HALLER : "Collective Decisions and Competitive Markets," *Review of Economic Studies* 68 (2001), 347-368.
34. H. HALLER, Y.M. IOANNIDES: "Propaedeutics of Strategic Theories of Economic Integration," *Economics Letters* 79 (2001), 215-221.
35. H. HALLER: "Non-Additive Beliefs in Solvable Games," *Theory and Decision* 49 (2000), 313-330.
36. H. HALLER: "Household Decisions and Equilibrium Efficiency", *International Economic Review* 41 (2000), 835-847.
37. H. HALLER, R. LAGUNOFF: "Genericity and Markov Behavior in Stochastic Games," *Econometrica* 68 (2000), 1231-1248.
38. J. DERKS, H. HALLER, H. PETERS: "The Selectope for Cooperative Games", *International Journal of Game Theory* 29 (2000), 23-38.
39. J. DERKS, H. HALLER: "Weighted Nucleoli", *International Journal of Game Theory* 28 (1999), 173-187.
40. J. DERKS, H. HALLER: "Null Players Out? Linear Values for Games with Variable Supports", *International Game Theory Review* 1 (1999), 301-314.
41. P.M.W.A. GERAATS, H. HALLER: "Shareholders' Choice", *Journal of Economics* 68 (1998), 111-135.
42. R.P. GILLES, H. HALLER, P.H.M. RUYS: "Semi-Core Equivalence", *Economic Theory* 11 (1998), 101-127.
43. H. HALLER, S. HOLDEN: "Ratification Requirement and Bargaining Power", *International Economic Review* 38 (1997), 825-851.
44. H. HALLER, C.-S. LIU: "Asymptotic Shareholder Unanimity with Exogenous Noise", *Economics Letters* 47 (1995), 69-76.
45. H. HALLER: "Collusion Properties of Values", *International Journal of Game Theory* 23 (1994), 261-281.
46. J. EICHBERGER, H. HALLER, F. MILNE: "Naive Bayesian Learning in  $2 \times 2$  Matrix Games", *Journal of Economic Behavior and Organization* 22 (1993), 69-90.
47. H. HALLER, C.C. YANG: "On Commodity Tax Reform in the Presence of a Given Income Tax Schedule", *The Canadian Journal of Economics / Revue Canadienne d'Economie* 16 (1993), 469-480.
48. H. HALLER: "Limitations of the Revelation Principle", *Economics Letters* 39 (1992), 409-413.
49. H. HALLER: "Mutual Insurance and Reputational Collateral", *Empirica — Austrian Economic Papers* 19 (1992), 19-35.

50. H. HALLER: "Corporate Production and Shareholder Cooperation under Uncertainty", *International Economic Review* 32 (November 1991), 823-842.
51. H. HALLER, D. ORR: "Stochastic Demand, Inventory Management and Chamberlinian Excess Capacity", *Journal of Institutional and Theoretical Economics* 147 (1991), 499-516.
52. H. HALLER: "Large Random Graphs in Pseudo-Metric Spaces", *Mathematical Social Sciences* 20 (1990), 147-164.
53. E. DIERKER, H. HALLER: "Tax Systems and Direct Mechanisms in Large Finite Economies", *Journal of Economics (Zeitschrift für Nationalökonomie)* 52 (1990), 99-116.
54. H. HALLER, S. HOLDEN: "A Letter to the Editor on Wage Bargaining", *Journal of Economic Theory* 52 (1990), 232-236.
55. V.P. CRAWFORD, H. HALLER: "Learning How to Cooperate: Optimal Play in Repeated Coordination Games", *Econometrica* 58 (1990), 271-295.
56. H. HALLER: "Non-Market Reopening, Time-Consistent Plans, and the Structure of Intertemporal Preferences Under Uncertainty", *Economics Letters* 32 (1990), 1-5.
57. H. HALLER: "Competition in a Stock Market with Small Firms" *Zeitschrift für Nationalökonomie (Journal of Economics)* 48 (1988), 243-261.
58. H. HALLER: "Manipulation of Endowments in Replica Economies: an Example", *European Economic Review* 32 (1988), 1375-1383.
59. H. HALLER: "Market Power, Objectives of the Firm, and Objectives of Shareholders", *Zeitschrift für die gesamte Staatswissenschaft (Journal of Institutional and Theoretical Economics)* 142 (1986), 716-726.
60. H. HALLER: "Non-Cooperative Bargaining of  $N \geq 3$  Players", *Economics Letters* 22 (1986), 11-13.
61. H. HALLER: "Separation of Ownership and Labour: Welfare Considerations", *Zeitschrift für Nationalökonomie* 45 (1985), 245-265.
62. H. HALLER: "The Principal-Agent Problem with a Satisficing Agent", *Journal of Economic Behavior and Organization* 6 (1985), 359-379.
63. H. HALLER: "Expected Utility and Revelation of Subjective Probabilities", *Economics Letters* 17 (1985), 305-309.
64. H. HALLER: "Sufficient Conditions for a Sufficient Statistic Theorem", *Economics Letters* 14 (1984), 167-172.
65. H. HALLER: "Rectangle Exchange Transformations", *Monatshefte für Mathematik* 91 (1981), 215-232.

## **B. Book Chapters**

1. H. HALLER: "Substitution and Income Effects", Chapter 5 in M. Blaug and P.J. Lloyd (eds.), *Famous Figures and Diagrams in Economics*, Edward Elgar Publishing, Cheltenham, 2010, pp. 58-63.
2. V. BÖHM, H. HALLER: "Demand Theory", in L. Blume and S. Durlauf (eds.), *The New Palgrave*, 2nd edition, Macmillan Publishers, Basingstoke, 2008.

3. H. HALLER, S. MOUSAVI: "Uncertainty Improves the Second-Best," in M. Abdellaoui, R.D. Luce, M.J. Machina, and B. Munier (eds.): *Risk and Uncertainty: Mental, Formal and Experimental Representations*, Springer, Berlin et al., 2007, pp. 85-100.
4. J. DURIEU, H. HALLER, P. SOLAL: "Contagion and Dominating Sets," Ch. 6 in Richard Topol and Bernard Walliser (eds.): *Cognitive Economics: New Trends*. Contributions to Economic Analysis, Volume 280, Elsevier, Amsterdam, 2007, pp. 135-152.
5. H. GERSBACH, H. HALLER: "Household Inefficiency and Equilibrium Efficiency," in Christian Schultz and Karl Vind (eds.): *Institutions, Equilibria and Efficiency: Essays in Honor of Birgit Grodal*. Springer-Verlag, Heidelberg, 2006, pp. 187-209.
6. R. BARON, J. DURIEU, H. HALLER, P. SOLAL: "Stochastic Evolutionary Game Theory", in Paul Bourguine and Jean-Pierre Nadal (eds.): *Cognitive Economics : An Interdisciplinary Approach*. Springer-Verlag, Heidelberg, 2004, pp. 267-279.
7. H. HALLER, R. MILAM: "Welfare and Political Support Effects of Quotas in an Oligopolistic Market", in Michael R. Baye (ed.): *Advances in Applied Microeconomics*, Vol. 8: Oligopoly, JAI Press, Stamford, CT, 1999, pp. 161-185.
8. H. HALLER: "Non-Additive Beliefs: From Decision to Game Theory", in Mark J. Machina and Bertrand Munier (eds.): *Beliefs, Interactions and Preferences in Decision Making*, Kluwer Academic Publishers, Boston, 1999.
9. H. GERSBACH, H. HALLER: "Allocation among Multi-Member Households: Issues, Cores, and Equilibria", in Ahmet Alkan, Charalambos D. Aliprantis, and Nicholas C. Yannelis (eds.): *Current Trends in Economics: Theory and Applications*, Springer-Verlag, Berlin et al., 1999, pp. 177-200.
10. H. HALLER: "Mixed Extensions of Games and the Saint Petersburg Paradox", in Robert Nau, Erik Grønn, Mark Machina, and Olvar Bergland (eds.): *Economic and Environmental Risk and Uncertainty: New Models and Methods*, Kluwer Academic Publishers, Dordrecht et al., 1997, pp. 163-171.
11. H. HALLER, C.C. YANG: "Welfare or Pareto-Improving Directions of Piecemeal Tax Reform", in W. Eichhorn (ed.): *Models and Measurement of Welfare and Inequality*, Springer-Verlag, Berlin et al., 1994, pp. 286-298.
12. R.P. GILLES, H. HALLER, P.H.M. RUYLS: "Modelling of Economies with Relational Constraints on Coalition Formation", Ch. 5 in R.P. Gilles and P.H.M. Ruys (eds.): *Imperfections and Behavior in Economic Organizations*, Kluwer Academic Publishers, Boston, 1994, pp. 89-136.
13. H. HALLER: "Topologies as Trade Infrastructures", Ch. 6 in R.P. Gilles and P.H.M. Ruys (eds.): *Imperfections and Behavior in Economic Organizations*, Kluwer Academic Publishers, Boston, 1994, pp. 137-148.
14. H. HALLER: "Wage Bargaining as a Strategic Game", in R. Selten (Ed.), *Game Equilibrium Models III: Strategic Bargaining*, Springer-Verlag, Berlin, Heidelberg, New York, et al., 1991, pp. 230-241.
15. V. BÖHM, H. HALLER: "Demand Theory", in J. Eatwell, M. Milgate, and P. Newman (eds), *The New Palgrave: A Dictionary of Economic Theory and Doctrine*, The Macmillan Press Limited, London, 1987.
16. H. HALLER, K. JACOBS: "Extensions of Otto Toeplitz' Combinatorial Construction of Almost Periodic Functions of the Real Line", in I. GOHBERG (Ed.), *Toeplitz Memorial Conference in Operator Theory* (Tel Aviv 1981), Birkhäuser Verlag 1982, pp. 303-311.

### **C. Book Reviews**

1. “The Economics of Reciprocity, Giving and Altruism”, by L.-A. Gerard-Varet, S.-C. Kolm and J. M. Ythier (eds.), in *The Economic Journal* 112 (February 2002), F149-151.
2. “Frontiers of Game Theory”, by K. Binmore, A. Kirman, and P. Tani (eds.), in *Journal of Economic Behavior and Organization* 27 (1995), 487-489.
3. “Agency Theory, Information, and Incentives” by G. Bamberg and K. Spremann (Eds.), in *Zeitschrift für Nationalökonomie* 50 (1989), 303-305.
4. “Economic Decisions under Uncertainty”, by H. W. Sinn, in *Zeitschrift für Nationalökonomie* 44 (1984), 189-191.

### **D. Miscellaneous**

1. H. HALLER: “How to Play if You Must”, *Behavioral and Brain Sciences* 26 (2003), 161-162, invited commentary on target article by Andrew M. Colman: “Cooperation, Psychological Game Theory, and Limitations of Rationality in Social Interaction,” *Behavioral and Brain Sciences* 26 (2003), 139-154.
2. E. DIERKER, H. HALLER: extended German abstract of “Tax Systems and Direct Mechanisms in Large Finite Economies”, in *Quartalshefte der Girozentrale und Bank der österreichischen Sparkassen AG*, IV/88-I/89, 51-56.
3. H. HALLER: “General Equilibrium of an Exchange Economy with Incomplete Markets” (in German) in *Das Wirtschaftsstudium (WISU)*, 6/1986, 310-315.
4. H. HALLER: “General Equilibrium of an Exchange Economy: An Introduction” (in German) in *Das Wirtschaftsstudium (WISU)*, 6/1985, 315-319.

## **Unpublished Manuscripts and Working Papers**

### **A. Select Working Papers**

1. H. GERSBACH, H. HALLER: “Households, Markets and Public Choice.”
2. H. HALLER, B. HOYER: “Note on the Common Enemy Effect under Strategic Network Formation and Disruption.”
3. H. HALLER: “Network Vulnerability: A Designer-Disruptor Game.”

### **B. Work in Progress**

1. H. GERSBACH, H. HALLER: “Groups and Markets: General Equilibrium with Multi-Member Households”, book manuscript.
2. V. BRITZ, H. GERSBACH, H. HALLER: “Deposit Insurance in General Equilibrium.”
3. H. GERSBACH, H. HALLER: “Matching and Market Integration.”

## Grants and Research Visits

- Research Fellowship, sponsored by DAAD and NATO to Department of Mathematics, University of Rennes (France), 1979-80.
- Special Education Grant in Information Economics, sponsored by DFG to Department of Economics, Harvard University, 1982-83.
- Research Visits, sponsored by DFG through SFB 303, to Department of Economics, University of Bonn (Germany), July 1987, June, July 1990.
- Participation in Research Project, “Game Theory in the Behavioral Sciences”, sponsored by the Center for Interdisciplinary Research (ZiF), University of Bielefeld (Germany), June 1988.
- Fellow, Center for Economic Research (CentER), and Visiting Faculty Member, Department of Econometrics, Tilburg University (The Netherlands), sponsored by CentER, KUB, and NWO, Fall 1990, Spring 1995.
- Research Visit, sponsored by NWO and FdEW (Faculty of Commerce and Economics), to Department of Quantitative Economics, University of Limburg, Maastricht (The Netherlands), August and September, 1994.
- Visiting Professor, Institute for Advanced Studies (IHS), Vienna (Austria), Fall 1994, Winter 2003.
- Guest Professor, Institute of Economics, University of Copenhagen (Denmark), Fall 2002.
- Mercator Professorship of the German Science Foundation (DFG), at Alfred-Weber-Institut, University of Heidelberg (Germany), March-July 2003, June and July 2004.
- Research Visits, sponsored by DFG through SFB 504, to Institute of Economic Theory and Operations Research, University of Karlsruhe (Germany), June 2005, 2006, 2008 and to Alfred-Weber-Institut, University of Heidelberg (Germany), July 2005, 2006, 2008.
- Guest Professor, Institute of Economic Theory and Statistics (ETS), KIT/University of Karlsruhe (Germany), June 2010.
- Guest Professor, Chair of Macroeconomics: Innovation and Policy (MIP), ETH Zurich, June and July 2007; June and July 2009; July 2010; June 2011 - July 2012, June and July 2013, August - December 2015.

## Editorial and Professional Responsibilities

- Associate Editor:  
Journal of Economics, 2005 — ,  
International Game Theory Review, 2002 — ,  
Manchester School of Economics and Social Studies, 1997 — .
- Referee:  
Econometrica, Review of Economic Studies, American Economic Review, European Economic Review, International Economic Review, Review of Economics of the Household, Economics Bulletin, Economic Journal, Economics Letters, Economic Systems, Economic Theory, Canadian Journal of Economics, Scandinavian Journal of Economics, Zeitschrift für Nationalökonomie (Journal of Economics), Zeitschrift für die gesamte Staatswissenschaft (JITE), Journal of Public Economic Theory, Journal of Economic Theory, Journal of Mathematical Economics, Journal of Applied Mathematics and Decisions, Mathematical Social Sciences, Mathematical Finance, Quantitative Finance, Social Choice and Welfare, Management Science, Journal of Economics and Management Strategy, Theory and Decision, International Journal of Game Theory, Games and Economic Behavior, Journal of Economic Behavior and Organization, Rand Journal of Economics, International Journal of Industrial Organization, Review of Economic Design, Review of International Economics, Annals of Operations Research, European Journal of Operational Research.



- Reviewer:  
NSF, Netherlands Science Foundation (NWO), Economic and Social Research Council (UK), Social Sciences and Humanities Research Council of Canada; Austrian Science Fund (FWF); South Africa's National Research Foundation (NRF); Mathematical Reviews; Book Manuscripts for Academic Press, Addison Wesley Longman, and Kluwer Academic Publishers.
- Main Organizer:  
Southeast Economic Theory and International Economics Conference, 1998.

## Presentations

### MEETINGS

- 1982 First International Conference on Utility and Risk (FUR I), Oslo
- 1984 Econometric Society, Madrid
- 1985 Econometric Society, Cambridge, MA
- 1986 Econometric Society, Duke University
- 1987 Midwest Mathematical Economics, Lexington, KY  
International Conference on Game Theory, Columbus, OH  
European Economic Association, Copenhagen
- 1988 Econometric Society, New York, NY
- 1989 Midwest Mathematical Economics, Purdue University  
Southeast Economic Theory, UNC Chapel Hill
- 1990 Midwest Mathematical Econ, Bloomington, IN  
Midwest International Econ, Bloomington, IN  
Vth Karlsruhe Seminar, Karlsruhe  
Econometric Society, Washington, DC
- 1991 International Conference on Game Theory, Florence  
International Conference on Game Theory, SUNY Stony Brook  
Southeast Economic Theory, Vanderbilt University  
Midwest Mathematical Economics, IUPUI, Indianapolis
- 1992 Econometric Society, New Orleans, LA  
Social Choice and Welfare, Caen  
International Conference on Game Theory, SUNY Stony Brook  
European Economic Association, Dublin
- 1993 Econometric Society, Anaheim, CA  
Current Trends in Economics: Theory & Applications, Celaphonia  
Southeast International Trade, Duke University
- 1994 Econometric Society, Boston  
Midwest Mathematical Economics, Ann Arbor, MI  
Midwest International Economics, Ann Arbor, MI  
Seventh Conference on Utility and Risk (FUR VII), Oslo  
Social Choice and Welfare, Rochester  
International Conference on Game Theory, SUNY Stony Brook  
European Economic Association, Maastricht
- 1995 Current Trends in Economics: Theory & Applications, Celaphonia  
International Conference on Game Theory, Jerusalem  
Third Summer Meeting in Game Theory, Valencia  
International Economic Association, Tunis, Tunisia
- 1996 Econometric Society, San Francisco  
Location of Financial Activities, CEPR, Naples  
Social Choice and Welfare, Maastricht  
International Conference on Game Theory, Saint Petersburg  
Southern Economic Association, Washington, DC

- 1997 Current Trends in Economics: Theory & Applications, Antalya  
 Eighth Conference on Utility and Risk (FUR VIII), Mons  
 Mathematical Utility Theory, Essen  
 Southeast Economic Theory, UNC, Chapel Hill
- 1998 Social Choice and Welfare, Vancouver, BC  
 European Operations Research (EURO XVI), Brussels
- 1999 Midwest Economic Theory, Purdue  
 International Conference on Game Theory, SUNY Stony Brook  
 Southeast Economic Theory, Georgetown
- 2000 Social Choice and Welfare, Alicante, Spain  
 Spanish Game Theory, Valencia  
 Games 2000, Bilbao, Spain  
 Econometric Society, Seattle, WA  
 Southeast Economic Theory, Rice
- 2001 Midwest Economic Theory, Madison, WI  
 Economic Theory, Ischia, Italy  
 Southeast Economic Theory, Florida International University
- 2002 European Workshop on General Equilibrium Theory, Athens  
 Social Choice and Welfare, Pasadena, CA  
 Econometric Society, Venice  
 European Economic Association, Venice
- 2003 European Workshop on General Equilibrium Theory, Bielefeld
- 2004 Eleventh Conference on Utility and Risk (FUR XI), Paris-Cachan  
 Games 2004, Marseille
- 2005 Midwest Economic Theory, Vanderbilt  
 Workshop on Network Formation, Mannheim  
 Spain-Italy-Netherlands Game Theory (SING-I), Maastricht  
 Southern Economic Association, Washington, DC
- 2006 Spain-Italy-Netherlands Game Theory (SING-II), Foggia  
 Midwest Economic Theory, Purdue
- 2007 Canadian Economic Theory, HEC Montreal  
 Midwest Economic Theory, Ann Arbor, MI
- 2008 Contests and Tournaments, NC State  
 Law and Economics, Catania, Italy  
 Midwest Economic Theory, Ohio State
- 2009 NSF/NBER General Equilibrium and Mathematical Economics, UCSD  
 Midwest Economic Theory, Penn State
- 2011 Game Theory and Society, ETH Zurich, CH  
 German Economists Abroad, ESMT Berlin
- 2012 Coalition Theory and Networks (CTN), Paris  
 European Workshop on General Equilibrium Theory, Exeter  
 NSF/NBER General Equilibrium and Mathematical Economics, Bloomington, IN  
 Midwest Economic Theory, Washington University, St. Louis
- 2013 Networks and Externalities, LSU, Baton Rouge  
 SAET, Economic Theory, Paris
- 2014 Econometric Society, Minneapolis
- 2015 European Economic Association, Mannheim

38 INTERNAL SEMINARS

98 INVITED SEMINARS AND LECTURES