

CURRICULUM VITAE

Pradeep Dubey

Personal Date of Birth : January 9, 1951.
Place of Birth : Patna, Bihar, India.
Citizenship : United States.
Marital Status : Married to Lushin (daughters Ilina and Tara)

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Fields of Interests:

Game Theory and Mathematical Economics

Degrees:

B.Sc. (Physics Honors), Delhi University, India, June 1971.

Ph.D. (Applied Mathematics), Cornell University, Ithaca, NY, June, 1975.

Scientific Societies:

Fellow of the Econometric Society

Member of the Council of the Game Theory Society

Professional Activities:

Editorial Board, International Journal of Game Theory (until 1994)

Academic Positions:

- 1975-1978 Assistant Professor, School of Organization and Management (SOM) / Cowles Foundation for Research in Economics, Yale University.
- 1978-1984 Associate Professor, SOM and Cowles, Yale University. 1979-1980 Research Fellow (for the special year of game theory and mathematical economics), Institute for Advanced Studies, Hebrew University, Jerusalem (on leave from Yale University).

- 1982-1983 Senior Research Fellow, International Institute for Applied Systems Analysis, Austria (on leave, with a Senior Faculty Fellowship from Yale University).
- 1984-1985 Professor, Department of Economics, University of Illinois at Urbana-Champaign.
- 1985-1986 Professor, Department of Applied Mathematics and Statistics (AMS) / Institute for Decision Sciences (IDS), SUNY Stony Brook.
- 1986-present Leading Professor, Center for Game Theory in Economics, Department of Economics, SUNY Stony Brook.
- 1989-1993 Adjunct Professor, SOM, Yale University
- 2005- 2009, Visiting Professor, Cowles Foundation, Yale University

Short Academic Visits:

- Center for operations research and economics, University Catholique de Louvain, Belgium (82, 86, 95);
- Institute for Advanced Studies, Vienna (81);
- Santa Fe Institute, USA (90, 93);
- Indian Statistical Institute, Delhi (87-02);
- Cowles Foundation for Research in Economics, Yale University (95-02).

Conference Co-Organizer:

Summer Activities - SUNY at Stony Brook 1990-2006.

These activities occur over the month of July and involve over two hundred scholars from all over the USA, Europe, China, India and South America.

Advisor to Ph.D Students(after 2002):

- Zhengao Huang (Advisor)
- Tim Mathews (Co-advisor)
- Debpriya Sen (Co-advisor)
- Chih-fen Kuo (Co-advisor)
- Fen Wang (Advisor)
- Naoki Watanabe (Advisor)

- Ming-Hung Wang (Co-advisor)
- George Stamatapoulos (Co-advisor)
- Andri Zapechelnjuk (Co-advisor)
- Yutian Chen (Advisor)

List of Publications:

A. BOOKS UNDER PREPARATION

- "Essays in Honor of Martin Shubik," editors P. Dubey and J. Geanakoplos, Elsevier Press (forthcoming 2008).

B. PUBLISHED PAPERS

- "On the Uniqueness of the Shapley Value," *International Journal of Game Theory*, Vol. 4, No. 3 (1975), 131-139.
- "Trade and Prices in a Closed Economy with Exogenous Uncertainty and Different Levels of Information," (with M. Shubik) *Econometrica*, Vol. 45, No. 7 (1977), 1657-1680.
- "A Closed Economy with Exogenous Uncertainty, Different Levels of Information, Futures and Spot Markets," (with M. Shubik) *International Journal of Game Theory*, Vol. 6, No. 4 (1977), 231-248.
- "A Closed Economic System with Production and Exchange Modeled as a Game of Strategy," (with M. Shubik) *Journal of Mathematical Economics*, Vol. 4, No. 1 (1977), 253-287.
- "The Noncooperative Equilibria of a Closed Trading Economy with Market Supply and Bidding Strategies," (with M. Shubik) *Journal of Economic Theory*, Vol. 17, No. 1 (1978), 1-20.
- "Some Properties of the Banzhaf Power Index," *Mathematics of Operations Research*, Vol. 4, No. 2 (May 1979), 99-131 (with L.S. Shapley).
- "Bankruptcy and Optimality in a Closed Trading Mass Economy Modeled as a Noncooperative Game," (with M. Shubik) *Journal of Mathematical Economics*, Vol. 6, No. 2 (1979), 115-134.
- "Asymptotic Semivalues and a Short Proof of Kannai's Theorem," *Mathematics of Operations Research*, Vol. 5, No. 2 (May 1980), 267-270.

- “Efficiency Properties of Strategic Market Games: an Axiomatic Approach,” *Journal of Economic Theory*, Vol. 22, No. 2 (1980), 339-362 (with A. Mas-Colell and M. Shubik).
- “Nash Equilibria of Market Games: Finiteness and Inefficiency,” *Journal of Economic Theory*, Vol. 22, No. 2 (1980), 363-376.
- “Information Conditions, Communication and General Equilibrium,” (with M. Shubik) *Mathematics of Operations Research*, Vol. 6, No. 2 (May 1981), 186-189.
- “The Profit Maximizing Firm: Managers and Stockholders,” (with M. Shubik) *Economies et Societies (Cahiers de l’ Institut de Economiques Appliquees, Serie EM No. 6, Laboratoire Associe au C.N.R.S.)*, Vol. 14, 1981, 1364-1388.
- “Value Theory without Efficiency,” (with A. Neyman and R.J. Weber), *Mathematics of Operations Research*, Vol. 6, No. 1 (February 1981), 122-128 .
- “Price-Quantity Strategic Market Games,” *Econometrica*, Vol. 50, No. 1 (January 1982), 111-126.
- “Payoffs in Non-atomic Economies: an Axiomatic Approach,” *Econometrica*, 52 (1984), 1129-1150 (with A. Neyman).
- “Totally Balanced Games Arising from Controlled Programming Problems,” *Mathematical Programming*, 29 (1984), 245-267 (with L.S. Shapley).
- “The Shapley Value as Aircraft Landing Fees - Revisited,” *Management Science*, Vol. 28, No. 8.
- “Input Output Prices with Endogenous Demand,” *Economic Letters*, 1985 (with P. Chander).
- “Information Patterns and Nash Equilibria in Extensive Games: I,” (with M. Kaneko), *Mathematical Social Sciences*, Vol. 8, No. 2, pp. 111 - 139, 1984.
- “A Strategic Market Game with Price and Quantity Strategies,” (with M. Shubik), *Zeitschrift fur Nationalonomie* 40, pp. 25-35,
- “On Monopolistic Competition and Perfect Equilibria,” (with M. Shubik), in *Essays in Honor of Tullio Bagiotti (D, Cantarelli, A, Agrati and A, Montesano, eds.)*, 1985
- “Perfect Competition in Strategic Market Games with Interlinked Preferences,” (with M. Shubik), *Economics Letters*, 17, pp. 3-4, 1985

- “Information Patterns and Nash Equilibria in Extensive Games: II,” (with M. Kaneko), *Mathematical Social Sciences*, Vol. 10, No. 3, pp. 247 - 262, 1986.
- “Revelation of Information in Strategic Market Games: A Critique of Rational Expectations,” *Journal of Mathematical Economics*, Vol. 16, No. 2 (1987), 105-137 (with J. Geanakoplos and M. Shubik).
- “A Note on an Optimal Garnishing Rule,” (with M. Shubik) *Economics Letters* 27, (1988).
- “Inefficiency of Smooth Market Mechanisms,” (with J.D. Rogawski), Discussion Paper 3, the Institute for Decision Sciences, SUNY, Stony Brook, in *Journal of Mathematical Economics* 19 (1990) 285-304.
- “The Value of Money in a Finite Horizon Economy: a Role for Banks,” (with J. Geanakoplos), in *Economic Analysis of Markets and Games*, M.I.T. Press, ed. P. Dasgupta, D. Gale, O. Hart, E. Maskin, 1992.
- “Repeated Trade and the Velocity of Money,” (with S. Sahi and M. Shubik), in *Journal of Mathematical Economics*, (1993).
- “Noncooperative General Exchange with a Continuum of Traders,” (with L.S. Shapley), in *Journal of Mathematical Economics*, Vol. 23, (1994) 253-293.
- “Strategic Market Games: A Survey of Some Results,” in “Game Theoretic Methods in General Equilibrium Analysis”, NATO ASI Series D, Vol. 77, ed. J.-F. Mertens and S. Sorin, Kluwer Academic Publishers, 1994.
- “An Axiomatic Approach to the Equivalence Phenomenon,” (with A. Neyman) in “Game Theoretic Methods in General Equilibrium Analysis”, NATO ASI Series D, Vol. 77, ed. J.-F. Mertens and S. Sorin, Kluwer Academic Publishers, 1994.
- “An Equivalence Principle for Perfectly Competitive Economies,” (with A. Neyman), Discussion Paper 34, the Institute for Decision Sciences, SUNY, Stony Brook, *Journal of Economic Theory*, Vol. 75, No. 2, August, pp. 314-344, 1997.
- “When Less Scrutiny Induces More Effort,” (joint with Chien-wei Wu) *Journal of Mathematical Economics*, Vol. 36, Issue 4, December, 2001, pp. 311-336.
- “When Less Competition Induces More Product Innovation,” (joint with Chien-wei Wu), *Economics Letters*, Vol. 74, Issue 3, January 2002, pp. 309-312. July 16, 2002.

- “Inefficiency of Nash Equilibria,” *Mathematics of Operations Research*, 11 (1986). July 16, 2002
- “Competitive pooling: Rothschild-Stiglitz Reconsidered”, (with John Geanakoplos), *The Quarterly Journal of Economics*, 2002, 117(4), pp 1529-1570.
- “Optimal Scrutiny in Multi-Period Promotion Tournaments”, (with Ori Haimanko), *Games and Economic Behavior*, 2003, 42(1), pp 1-24.
- “Price-mediated Trade with Quantity Signals”, (with Siddhartha Sahi), *Journal of Mathematical Economics*, 2003, 39(5-6) pp 377-389.
- “Inside and outside Fiat Money, gains to trade, and IS-LM”, (with John Geanakoplos), *Economic Theory*, 2003, 21 (2-3), pp 347-397.
- “Is gold an efficient store of value?” (with John Geanakoplos and Martin Shubik), *Economic Theory*, 2003, 21(4), pp767-782.
- “From Nash to Walras via Shapley-Shubik”, (with John Geanakoplos), *Journal of Mathematical Economics*, 2003, 39, pp 391-400.
- “Monetary equilibrium with missing markets”, (with John Geanakoplos), *Journal of Mathematical Economics*, 2003, 39, pp 585-618.
- “Default and punishment in general equilibrium”, (with John Geanakoplos and Martin Shubik), *Econometrica*, 2005, 73:1, 1-37.
- “Determinacy with nominal assets and outside money”, (with John Geanakoplos), *Economic Theory*, 2006, Vol27, No1, pp79-106.
- “Learning with perfect information”, (with Ori Haimanko), *Games and Economic Behavior*, 2004, 46(2), pp 304-324.
- “Compound voting and the Banzhaf Index”, (with Ori Haimanko and Einy E.), *Games and Economic Behavior*, 2005, 51(1), pp20-30.
- “Strategic complements and substitutes, and potential games”, (with Ori Haimanko and A. Zapechelnjuk), *Games and Economic Behavior*, 2006, 54(1), pp 77-94.
- “Games with connectivity”, (with Rahul Garg), *Workshop on Internet and Network Economics, Patros (Greece)*, 2006 ; also ,forthcoming in Special Volume for the Platinum Jubilee of the Indian Statistical Institute
- “Competing for customers in a social network”, (with Rahul Garg and Bernard De Meyer), *Workshop on Internet and Network Economics, Patros (Greece)*, 2006 ; also, Cowles foundation Discussion Paper, No. 1591, Yale University.
- “Money and production, and liquidity trap”, (with John Geanakoplos), *International Journal of Economic Theory*, Vol 2, Issue 3-4, 2006 pp 171-384 (special issue in honor of Jean-Michel Grandmont)

Working Papers

- “Insurance Contracts Designed by Competitive Pooling,” (joint with John Geanakoplos), Cowles foundation Discussion Paper, No. 1315, Yale University.)
- “Envy and the Optimality of Tournaments,” (with Ori Haimanko), Center for Rationality and Interactive Decision Making, Discussion Paper No. 250, Hebrew University of Jerusalem.)
- “Perfect competition in a bilateral monopoly (in honor of Martin Shubik), (with Sondermann Dieter), Cowles foundation Discussion Paper, No. 1534, Yale University.

- “Prizes versus Wages with Envy and Pride”, (with John Geanakoplos and Ori Haimanko. Cowles foundation Discussion Paper, No. 1537, Yale University.
- “Grading in games of status: marking exams and setting wages”, (with John Geanakoplos). Cowles foundation Discussion Paper, No. 1544, Yale University.

- “Outsourcing induced by strategic competition”, (with Yutian Chen and Debapriya Sen), Cowles foundation Discussion Paper, No. 1589, Yale University.

Teaching Experience

- General Equilibrium
- Topics in Mathematical Economics
- Game Theory
- Dynamic Programming
- Graphs and Networks
- Quantitative Methods in Management Science
- Interactive Decision Making
- Business Strategy and Competitive Decision Making
- Strategic Thinking
- Undergraduate Microeconomics