

PRAJIT K. DUTTA

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PERSONAL DATA

Office

Department of Economics
Columbia University
1126 International Affairs Building
New York, New York 10027
Ph.: (212) 854-4742 Fax: (212) 854-8059

Home

601 W. 115th St., Apt. 105
New York, New York 10025
Ph.: (212) 749-5843 Fax: (212) 531-3918
Email: pkd1@columbia.edu
Web: <http://www.columbia.edu/~pkd1/>

Date of Birth January 26, 1960

Marital Status Married, Two children

EDUCATION

Ph. D.	1987	Economics	Cornell University
M.A.	1985	Economics	Cornell University
M.A.	1982	Economics	Delhi School of Economics
B.A.	1980	Economics	St. Stephen's College, Delhi University

ACADEMIC POSITIONS

Employment

<i>Professor</i> , Department of Economics, Columbia University	1994-
<i>Associate Professor</i> , Department of Economics, Columbia University	1992-1994
<i>Associate Professor</i> , Department of Economics, University of Wisconsin	1993-1994
<i>Assistant Professor</i> , Department of Economics, Columbia University	1987-1992
<i>Post-Doctoral Research Fellow</i> , AT&T Bell Laboratories	1986-1987

Visiting Position

<i>Visiting Assistant Professor</i> , Department of Economics, University of Rochester	1990-1991
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Editorial Position

Associate Editor, ***Economic Theory***, 1992- .

COURSES TAUGHT

Graduate

Microeconomic Analysis (Game Theory, Information Economics, and Dynamic Models), Advanced Microeconomic Analysis (Dynamic Models, Game Theory), Mathematical Methods for Economics, Advanced Mathematical Methods.

Undergraduate

Economics of the Internet, Principles of Economics (Microeconomics and Macroeconomics), Intermediate Microeconomics, Game Theory and Applications, Economics of Finance, Public Finance, Seminar in Game Theory, Seminar in Industrial Organization.

PUBLICATIONS

Book

Strategies and Games: Theory and Practice, 1999, MIT Press, Cambridge, MA.

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Publications: Journals

Capital Deepening and Impatience Equivalence in Stochastic Aggregative Growth Models, 1987, *Journal of Economic Dynamics and Control*, 11, 519-530.

Maximum Theorems for Convex Structures with an Application to the Theory of Optimal Intertemporal Allocation, 1989, (with Tapan Mitra), *Journal of Mathematical Economics*, 18, 77-86.

On Continuity of the Utility Function in Intertemporal Allocation Models: An Example, 1989, (with Tapan Mitra), *International Economic Review*, 30, 527-536.

What Do Discounted Optima Converge To? A Theory of Discount Rate Asymptotics in Economic Models, 1991, *Journal of Economic Theory*, 55, 64-94.

Markovian Equilibrium in a Class of Stochastic Games: Existence Theorems for Discounted and Undiscounted Models, 1992, (with Rangarajan Sundaram), *Economic Theory*, 2, 197-214.

Finite Horizon Optimization: Sensitivity and Continuity in Multi-Sectoral Models, 1993, *Journal of Mathematical Economics*, 22, 101-124.

How Different Can Strategic Models Be?, 1993, (with Rangarajan Sundaram), *Journal of Economic Theory*, 60, 42-61.

Tragedy of the Commons?, 1993, (with Rangarajan Sundaram), *Economic Theory*, 3, 413-432.

A Theory of Stopping Time Games with Applications to Product Innovation and Asset Sales, 1993, *Economic Theory*, 3, 743-763.

Bankruptcy and Expected Utility Maximization, 1994, *Journal of Economic Dynamics and Control*, 18, 539-560.

Limit Integration Theorems for Monotone Functions and Parametric Continuity in Zero-Sum Stochastic Games, 1994, (with Mukul Majumdar), *Nonlinear World*, 1, 73-91.

Optimal Principal-Agent Contracts for a Class of Incentive Schemes: A Complete Characterization and the Rate of Approach to Efficiency, 1994, (with Roy Radner), *Economic Theory*, 4, 483-503.

Parametric Continuity in Dynamic Programming Problems, 1994, (with Mukul Majumdar and Rangarajan Sundaram), *Journal of Economic Dynamics and Control*, 18, 1069-1092.

The Folk Theorem for Discounted Repeated Games: A NEU Condition, 1994, (with Dilip Abreu and Lones Smith), *Econometrica*, 62, 939-948.

Collusion, Discounting and Dynamic Games, 1995, *Journal of Economic Theory*, 66, 289-306.

A Folk Theorem for Stochastic Games, 1995, *Journal of Economic Theory*, 66, 1-32.

Better Late than Early: Vertical Differentiation in the Adoption of a New Technology, 1995, (with Saul Lach and Aldo Rustichini), *Journal of Economic Management and Strategy*, 4, 563-589.

(s,S) Equilibria in Stochastic Games, 1995, (with Aldo Rustichini), *Journal of Economic Theory*, 67, 1-39.

Price Continuity Rules and Insider Trading, 1995, (with Ananth Madhavan), *Journal of Financial and Quantitative Analysis*, 30, 199-228.

Optimal Management of an R&D Budget, 1997, *Journal of Econ Dynamics and Control*, 21, 575-602.

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Competition and Collusion in Dealer Markets, 1997, (with Ananth Madhavan), *Journal of Finance* 52, 245-276.

Profit Maximization and the Market Selection Hypothesis, 1999, (with Roy Radner), *Review of Economic Studies*, 66, 769-798.

Survival and the Art of Profit Maximization, 2001, (with Rangarajan Sundaram), *Review of Economic Design*, 6, 429-446.

Publications: Books

On Specifying the Parameters of a Development Plan, 1994, in *Planning and Development: Essays in Honor of Sukhamoy Chakravarty*, Chapter 4, 75-98, edited by Kaushik Basu, Mukul Majumdar and Tapan Mitra, Basil Blackwell, London.

Moral Hazard, 1994, (with Roy Radner), in *Handbook of Game Theory, Volume 2*, Chapter 26, 869-903, edited by Robert Aumann and Sergiu Hart, North-Holland, Amsterdam.

The Equilibrium Existence Problem in General Markovian Games, 1998, (with Rangarajan Sundaram), in *Organizations with Incomplete Information*, Chapter 5, 159-207, edited by Mukul Majumdar, Cambridge University Press, Cambridge, UK.

Strategic Analysis, 2002, in *Encyclopedia of the Social Sciences*, ESOL Publishers, London, UK.

Papers Under Submission

Self-Enforcing Climate Change Treaties, 2003, (with Roy Radner) mimeo, Columbia University.

A Strategic Analysis of Global Warming, 1999 (revised 2003), (with Roy Radner), mimeo, Columbia University.

Coordination Need Not Be A Problem, 1999 (revised 2003), mimeo, Columbia University.

Price Competition with Intertemporal Consumers, 2001, (revised 2003) (with Alexander Matros and Jorgen Weibull), mimeo, Boston University.

Working Papers

Efficient Markov Perfect Equilibria, 1998, mimeo, Columbia University.

Endogenous Trading and Volatility Clustering, 1999, (with Ananth Madhavan), mimeo, University of Southern California SBA.

Final Jeopardy, 2000, mimeo, Columbia University.

Repeated Games with Finite Memory, 2001, (with Paolo Siconolfi), mimeo, Columbia University.

Choosing Cleaner Technologies, 2003, (with Roy Radner), mimeo, Columbia University. .

On An International Bank for Global Climate Change, 2003, (with Roy Radner), mimeo, Columbia University.

PROFESSIONAL EXPERIENCE

Invited Lectures

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May 1991 Invited to present six lectures on *Dynamic Programming and Dynamic Games* at the Hebrew University, Jerusalem.

August 1992 Invited to present three lectures on *Dynamic Games* at the Indian Statistical Institute, Delhi.

August 1994 Invited to present three lectures on *Market Rationality and Survival* at the Indian Statistical Institute, New Delhi.

March 1998 Invited to present a lecture on *Global Warming: An Economic Perspective* at the Seventh International Conference for Economic Journalists, School of Journalism, Columbia University.

September 1998 Invited to present three lectures on *Markovian Games and Global Warming* at the Stockholm School of Economics.

May 2000 Invited to present three lectures on *Economics of the Internet* at Erasmus University, Rotterdam.

August, 2000 Invited to present an address on *What Game Theory Can Teach Agricultural and Resource Economists* at the Annual Conference of the American Agricultural Economics Association, Tampa, FL.

Conference Organization

Co-Organizer, Conference on *Organizational Structure and Network Organization in Economics and Electrical Engineering*, March 1996, Columbia University.

Member, Organizing Committee, Econometric Society Winter Meetings, January 1997, New Orleans.

Refereeing

Econometrica, Journal of Economic Theory, International Economic Review, Review of Economic Studies, Economic Theory, Journal of Economic Dynamics and Control, Games and Economic Behavior, Journal of Mathematical Analysis and Applications, Journal of Economic Behavior and Organization, Rand Journal of Economics, International Journal of Industrial Organization, European Economic Review, American Economic Review, SIAM Journal of Control and Optimization Theory, National Science Foundation.

Professional Affiliations

Member of the Econometric Society

Senior Research Associate, Rochester Center for Economic Research

HONORS AND AWARDS

Dean's Day Lecture, Columbia University, April 15, 2000 on "The Internet: How It Will Shape Our Economic Life."

National Science Foundation Grant, 1998-2001, # SBR-9809988, *Topics in Global Warming and Markovian Games*, 1998-2001.

National Science Foundation Grant, 1994-1997, # SBR 9410485 (with Rangarajan Sundaram), *Markovian Games and their Applications*, 1994-1997.

Finalist for the Smith Breeden Prize (for the Best Paper in the ***Journal of Finance*** in 1997).

Vilas Foundation Award, University of Wisconsin, 1993-1995.

Columbia University Council for the Social Sciences Fellowship, 1988 and 1989.

President A. D. White Fellowship, Cornell University, 1985-1986.

Martin McAvoy Trust Fellowship, Cornell University, 1984-1985.