

# CURRICULUM VITAE

**Name:** MANIPUSHPAK MITRA

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**Current Position:** Professor (from July, 2012), Indian Statistical Institute.

**Address:** Room No. 644, Economic Research Unit,  
Indian Statistical Institute,  
203, Barrackpore Trunk Road,  
Kolkata-700 108, INDIA.

**Email:** mmitra@isical.ac.in & manipushpak.mitra@gmail.com

**Tel:** +91-33-25752608

**Fax:** +91-33-25778893

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## **Past Positions:**

- Associate Professor, Indian Statistical Institute, June 2006-June 2012.
  - Assistant Professor, Indian Statistical Institute, October 2002-May 2006.
  - Post-doctoral Fellow (funded by the German Research Foundation (DFG)), Economic Theory I, University of Bonn, Germany-October 2000 to September 2002.
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## **Academic Qualifications:**

- Ph. D. (Economics) 2000, Indian Statistical Institute, New Delhi, India.
  - M. A. (Economics) 1993, Delhi School of Economics, Delhi, India.
  - B. Sc. (Economics) 1991, Maulana Azad College, Calcutta University, India.
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## **Ph. D. Thesis:**

- *Thesis Title:* Essays on First Best Implementable Incentive Problems.
  - *Thesis Supervisor:* Professor Arunava Sen, Economics and Planning Unit, Indian Statistical Institute, New Delhi, India.
  - *Thesis Referees:*
    - (1) Professor Eric Stark Maskin, Harvard University, USA.
    - (2) Professor Hervé Moulin, University of Glasgow, UK.
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**Award:** Mahalanobis Memorial Medal (2012).

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**Research Interests:** Game theory, Industrial organization, Mechanism design under incomplete information and Social choice theory

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**Book:**

- *A Course on Cooperative Game Theory*. Joint with Satya R. Chakravarty and Palash Sarkar. Cambridge University Press, Cambridge House, Delhi, India, 2015.
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**Journal Publications:**

- Incentives and justice for sequencing problems. With Parikshit De. **Economic Theory** DOI: 10.1007/s00199-016-0983-2 (2016).
- Bidding rings-A bargaining approach. With Kalyan Chatterjee and Conan Mukherjee. *Accepted for the John Nash Memorial Special Issue: **Games and Economic Behavior*** DOI:10.1016/j.geb.2016.03.007 (2016).
- A characterization of the symmetrically balanced VCG rule in the queueing problem. With Youngsub Chun and Suresh Mutuswami. *Note in: **Games and Economic Behavior*** DOI:10.1016/j.geb.2015.04.001 (2015).
- Privatization, underpricing and welfare in the presence of foreign competition. With Arghya Ghosh and Bibhas Saha. **Journal of Public Economic Theory**, 17(3), 433-460 (2015).
- Strategy-proofness and Pareto-efficiency in quasi-linear exchange economies. With Mridu Prabal Goswami and Arunava Sen. **Theoretical Economics**, 9 (2), 361-381 (2014).
- An alternative proof of Fishburn's axiomatization of lexicographic preferences. With Debapriya Sen. **Economics Letters**, 124 (2), 168-170 (2014).
- Egalitarian equivalence and strategyproofness in the queueing problem. With Youngsub Chun and Suresh Mutuswami. **Economic Theory**, 56 (2), 425-442 (2014).
- Characterizations of pivotal mechanisms in the queueing problem. With Youngsub Chun and Suresh Mutuswami. **Mathematical Social Sciences**, 72, 62-66 (2014).
- Reversal of Bertrand-Cournot rankings in the presence of welfare concerns. With Arghya Ghosh. **Journal of Institutional and Theoretical Economics**, 170 (3), 496-519 (2014).
- Subgroup additivity in the queueing problem. With Youngsub Chun. **European Journal of Operational Research**, 238 (1), 281-289 (2014).
- Group strategyproofness in queueing models. With Suresh Mutuswami. **Games and Economic Behavior**, 72 (1), 242-254 (2011).
- Efficient allocation of heterogeneous commodities with balanced transfers. With Arunava Sen. **Social Choice and Welfare**, 35 (1), 29-48 (2010).
- Comparing Bertrand and Cournot in mixed markets. With Arghya Ghosh. **Economics Letters**, 109 (2), 72-74 (2010).
- Statistics of the Kolkata Paise Restaurant problem. With Asim Ghosh, Arnab Chatterjee and Bikas K. Chakrabarti. *Focus Issue: Statistical Physics Modelling in Economics and Finance*, **New Journal of Physics** 12 (075033), (2010).

- On the coincidence of the prenucleolus with the Shapley value. With Anirban Kar and Suresh Mutuswami. **Mathematical Social Sciences**, 57 (1), 16-25 (2009).
  - The Kolkata Paise Restaurant problem and resource utilization. With Anindya Sundar Chakrabarti, Bikas K. Chakrabarti and Arnab Chatterjee. **Physica A: Statistical Mechanics and its Applications**, 388 (12), 2420-2426 (2009).
  - Regulation of an open-access essential facility. With Axel Gautier. **Economica**, 75 (300), 662-682 (2008).
  - Regulating a monopolist with limited funds. With Axel Gautier. *Exposita Note in Economic Theory*, 27 (3), 705-718 (2006).
  - Incomplete information and multiple machine queueing problems. **European Journal of Operational Research**, 165 (1), 251-266 (2005).
  - Simple sequencing problems with interdependent costs. With Roland Hain. **Games and Economic Behavior**, 48 (2), 271-291 (2004).
  - Achieving the first best in sequencing problems. **Review of Economic Design**, 7 (1), 75-91 (2002).
  - Mechanism design in queueing problems. **Economic Theory**, 17 (2), 277-305 (2001).
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#### Works in progress:

- Reordering an existing queue. With Youngsub Chun and Suresh Mutuswami. *Revised and resubmitted*: **Social Choice and Welfare**.
  - Balanced implementability of sequencing rules. With Parikshit De. *Under revision*: **Games and Economic Behavior**.
  - Dynamic VCG mechanisms in queueing. With Sambuddha Ghosh and Yan Long.
  - Testable restrictions of equilibrium outcomes in strategic market games. With Indrajit Ray and Souvik Roy.
  - A Rawlsian approach to the queueing problem. With Youngsub Chun and Suresh Mutuswami.
  - A simple measure of competitiveness derived from post-election vote shares. With Satya R. Chakravarty, Suresh Mutuswami and Rupayan Pal.
  - Primary needs satisfaction and the market economy. With Anuj Bhowmick and Biung-Ghi Ju.
  - Naive reasoning, unhappy sets and the lexicographic preferences over attributes. With Mridu Prabal Goswami and Debapriya Sen.
  - Subsistence, saturation and irrelevance in preferences. With Debapriya Sen.
  - A fair rule for bipartite games. With Dipjyoti Majumdar and Souvik Roy.
  - Global treaty to reduce emission: a need based number theoretic argument. With Francis Bloch and Arghya Ghosh.
  - Domestic subsidies and endogenous coalition formation. With Arghya Ghosh.
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### Publications in Edited Books:

- *Kolkata restaurant problem: Some further research directions.* Joint with Priyodorshi Banerjee and Conan Mukherjee. *Forthcoming in* Frederic Abergel, Hideaki Aayama, Bikas K. Chakrabarti, Anirban Chakrabarti, Nivedita Deo, Dhruv Raina and Irena Vodenska (Edited) **Econophysics and Sociophysics: Recent Progress and Future Directions**, New Economic Window Series, Springer Verlag Italia, Milan, pages-127-132, 2017.
- *Game Theory (Classical): A Brief Introduction.* Joint with Priyodorshi Banerjee and Conan Mukherjee. *Forthcoming as an invited appendix in* **Econophysics of the Kolkata Restaurant Problem & Related Games: Classical and Quantum Strategies for Multi-agent Multi-choice Repetitive Games** by Bikas K. Chakrabarti, Arnab Chatterjee, Asim Ghosh, Sudip Mukherjee and Boaz Tamir. New Economic Window Series, Springer Verlag Italia, Milan, 2017.
- *Kolkata Paise Restaurant Problem: An Introduction.* Joint with Asim Ghosh, Soumyajyoti Biswas, Arnab Chatterjee, Anindya S. Chakrabarti, Tapan Naskar and Bikas K. Chakrabarti. In Frederic Abergel, Bikas K. Chakrabarti, Anirban Chakrabarti and Asim Ghosh (Edited) **Econophysics of Systematic Risk and Network Dynamics**, New Economic Window Series, Springer Verlag Italia, Milan, pages-173-200, 2012.
- *Kolkata Paise Restaurant Problem and the Cyclically Fair Norm.* Joint with Priyodorshi Banerjee and Conan Mukherjee. In Frederic Abergel, Bikas K. Chakrabarti, Anirban Chakrabarti and Asim Ghosh (Edited) **Econophysics of Systematic Risk and Network Dynamics**, New Economic Window Series, Springer Verlag Italia, Milan, pages-201-216, 2012.
- *Two Agent Allocation Problems and the First Best.* In Frederic Abergel, Bikas K. Chakrabarti, Anirban Chakrabarti and Manipushpak Mitra (Edited) **Econophysics of Order-driven Markets**, New Economic Window Series, Springer Verlag Italia, Milan, pages-271-275, 2011.
- *Cycle Monotonicity in Scheduling Models.* Joint with Debasis Mishra. In Banasri Basu, Bikas K. Chakrabarti, Satya R. Chakravarty and Kausik Gangopadhyay (Edited), **Econophysics and Economics of Games, Social Choices and Quantitative Techniques**, New Economic Window Series, Springer Verlag Italia, Milan, pages-10-16, 2010.
- *Dominant Strategy Implementation in Multi-unit Allocation Problems.* Joint with Arunava Sen. In Banasri Basu, Bikas K. Chakrabarti, Satya R. Chakravarty and Kausik Gangopadhyay (Edited), **Econophysics and Economics of Games, Social Choices and Quantitative Techniques**, New Economic Window Series, Springer Verlag Italia, Milan, pages-318-328, 2010.
- *A Characterization Result on the Coincidence of the Prenucleolus and the Shapley Value.* Joint with Anirban Kar and Suresh Mutuswami. In Banasri Basu, Bikas K. Chakrabarti, Satya R. Chakravarty and Kausik Gangopadhyay (Edited), **Econophysics and Economics of**

**Games, Social Choices and Quantitative Techniques**, New Economic Window Series, Springer Verlag Italia, Milan, pages-360-369, 2010.

- *Preferences Lower Bound in the Queueing Model*. In Bikas K. Chakrabarti and Arnab Chatterjee (Edited), **Econophysics of Markets and Business Networks** New Economic Window Series, Springer Verlag Italia, Milan, pages-233-237, 2007.
- *The Scheduling Model under Incomplete Information*. In Swami Tyagarupananda (Edited), **Advances in Economics: Some New Directions in Theory and Practice**, pages-103-116, 2006.
- *Information Extraction in Scheduling Problems with Non-identical Machines*. In Bikas K. Chakrabarti and Arnab Chatterjee (Edited), **Econophysics of Stocks and Markets**, New Economic Window Series, Springer Verlag Italia, Milan, pages-175-182, 2006.

#### **Edited Book:**

- *Econophysics of Order-driven Markets*. Edited with Frederic Abergel, Bikas K. Chakrabarti and Anirban Chakrabarti. New Economic Window Series, Springer Verlag Italia, Milan, 2011.

#### **PhD Thesis Supervision:**

- Conan Mukherjee (May, 2012)
- Parikshit De (Thesis submitted-July 2016)

**Refereed for:** The B.E. Journal of Economic Analysis and Policy, *Economica*, *Economic Modelling*, *Economics Letters*, *European Journal of Operational Research*, *Games and Economic Behavior*, *Indian Journal of Pure and Applied Mathematics*, *International Journal of Game Theory*, *International Review of Economics and Finance*, *Journal of Industrial and Management Optimization*, *Journal of Institutional and Theoretical Economics*, *Journal of Public Economic Theory*, *Manufacturing and Service Operations Management*, *Mathematical Reviews*, *Mathematical Social Sciences*, *Mathematics of Operations Research*, *National Science Foundation*, *Review of Economic Design*, *Review of Economic Studies*, *Social Choice and Welfare*, *Southern Economic Journal*, *The Manchester School*, *The RAND Journal of Economics*, *Transactions on Economics and Computation*.

#### **Academic Visits:**

- Visiting Professor, National University of Singapore University, Singapore (29.08.16-01.09.16).
- Visiting Professor, Seoul National University, Seoul, South Korea (04.07.16-08.07.16).
- Visiting Professor, Seoul National University, Seoul, South Korea (22.12.14-27.12.14 and 16.10.14-22.10.14).

- Visiting Professor, Department of Economics, University of Birmingham, Birmingham, England (12.05.14-14.05.14).
- Visiting Professor, Department of Economics, University of Leicester, Leicester, England (07.05.14-09.05.14).
- Visiting Professor, Department of Economics, University of York, York, England (05.05.14-06.05.14).
- Visiting Professor, University of New South Wales, Sydney, NSW, Australia (24.02.14-11.03.14).
- Visiting Associate Professor, Seoul National University, Seoul, South Korea (11.01.12-21.01.12).
- Visiting Associate Professor, University of New South Wales, Sydney, NSW, Australia (14.11.11-29.11.11).
- Visiting Associate Professor, University of New South Wales, Sydney, NSW, Australia (12.12.10-28.12.10).
- Visiting Associate Professor, Seoul National University, Seoul, South Korea (23.05.10 - 29.05.10).
- Visiting Associate Professor, Singapore Management University, Singapore (20.05.10-22.05.10).
- Visiting Associate Professor, University of New South Wales, Sydney, NSW, Australia (29.11.09-19.12.09).
- Visiting Associate Professor, Seoul National University, Seoul, South Korea (09.09.08-13.09.08).
- Visiting Associate Professor, Queen's University, Kingston, Ontario, Canada (23.06.08-26.06.08).
- Visiting Associate Professor, University of New South Wales, Sydney, NSW, Australia (10.07.07-11.08.07).
- Visiting Lecturer, Department of Economics, University of New South Wales, Sydney, NSW, Australia (08.07.06-11.08.06).
- Visiting Researcher, Department of Economics, University of Warwick, England (05.06.06-16.06.06).
- Visiting Research Scholar, Department of Economics, Rice University, USA (01.10.05 to 15.11.05).
- Visiting Researcher, Economics Department, University of Rochester, USA (24.09.05 to 30.09.05).
- Visiting Researcher, Department of Economics, Cornell University, USA (21.09.05 to 23.09.05).
- Visiting Researcher at Center for Operations Research and Econometrics CORE (UCL, Louvain la Neuve) and FUSL, CEREC (Brussels), Belgium (12.06.04 to 24.06.04).
- Visiting Researcher (funded by German Research Foundation (DFG)), Department of Economics, University of Bonn, Germany (16.06.03 to 08.08.03).

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**Conference/Workshop/Symposium/Seminar Participation:**

- Seminar series (August 2016), National University of Singapore, Singapore.
- Summer School on Game Theory (July 2016), Seoul National University, Seoul, South Korea.
- Workshop on Game Theory and Mechanism Design (January 2016), Organized by National Mathematics Initiative on Game Theory and Optimization, Indian Institute of Science, Bangalore, India.
- Lectures on queueing problems (December, 2014), Seoul National University, Seoul, South Korea.
- 2014 SSK International Conference on Distributive Justice in Honor of Professor William Thomson (October 2014), Seoul National University, South Korea.
- Microeconomic Theory Research Cluster Seminar (May 2014), University of York, York, England.
- Workshop on Recent Developments in Mechanism Design (May 2014), Adam Smith Business School, University of Glasgow, Glasgow, Scotland.
- Joint Theory Workshop of University of New South Wales and University of Sydney (March 2014), University of New South Wales, Australia.
- Golden Jubilee (50th) Annual Conference of the Indian Econometric Society (TIES) (December 2013), IGIDR, Mumbai, India.
- The Asian Meeting of the Econometric Society (AMES) (August 2013), National University of Singapore, Singapore.
- The 13<sup>th</sup> conference of the Society of the Advancement of Economic Theory (SAET) (July 2013), MINES Paris Tech, Paris, France.
- The 11<sup>th</sup> International Meeting of the Society for Social Choice and Welfare (August 2012), India Habitat Center, New Delhi, India.
- The 13<sup>th</sup> Annual Conference of the Association of Public Economic Theory (June 2012), Academia Sinica, Taipei, Taiwan.
- Lectures on Strategyproofness (Jan 2012), School of Economics, Seoul National University, South Korea.
- Theory Workshop (Nov 2011), School of Economics, University of New South Wales, Australia.
- Departmental Seminar (May 2010), School of Economics, Seoul National University, South Korea.
- Departmental Seminar (May 2010), School of Economics, Singapore Management University, Singapore.
- Departmental Seminar (September 2008), School of Economics, Seoul National University, South Korea.

- The 9<sup>th</sup> International Meeting of the Society for Social Choice and Welfare (June 2008), Concordia University, Montreal, Canada.
  - Winter School of the Econometric Society at the Department of Economics, Delhi School of Economics (December 2007), University of Delhi, India.
  - Joint Theory Workshop of University of New South Wales and University of Sydney (August 2007), University of Sydney, Australia.
  - South and South East Asia Econometric Society Meeting (December 2006), IFMR, Chennai, India.
  - Seminar Series, (August 2006), University of New South Wales, Australia.
  - Seminar Series, (July 2006), University of Sydney, Australia.
  - Economic Theory Seminar, (June 2006), University of York, York, England.
  - Public Economics Workshop, (June 2006), University of Birmingham, Birmingham, England.
  - INFORMS Annual Meeting, (November 2005), The Hilton and Renaissance Park 55, San Francisco, CA, USA.
  - Departmental Seminar Series, (November, 2005), Department of Economics, SUNY at Stony Brook, NY, USA.
  - Microeconomics Workshop, (October 2005), Department of Economics, Rice University, Houston, TX, USA.
  - Weekly Seminar in Economic Theory, (September 2005), Economics Department, University of Rochester, NY, USA.
  - Economic Aspects of Congested Networks and Queues, (July, 2004), University of Bonn, Germany.
  - European Summer Symposium in Economic Theory: A CEPR Conference (July 2003), Studienzentrums Gerzensee, Gerzensee, Switzerland.
  - Taj-IBM Conference on Game Theory and its Applications (January 2003), Taj Mahal Hotel, Mumbai, India.
  - The 6<sup>th</sup> International Meeting of the Society for Social Choice and Welfare (July 2002), California Institute of Technology, Pasadena, California, USA.
  - The 7<sup>th</sup> Spring Meeting of Young Economists (April 2002), University Paris 1, Pantheon Sorbonne, Paris, France.
  - The 6<sup>th</sup> Spring Meeting of Young Economists (April 2001), University of Copenhagen, Copenhagen, Denmark.
  - The 8<sup>th</sup> World Congress of the Econometric Society (August 2000), University of Washington, Seattle, USA.
  - Winter School of the Econometric Society (December 1999), Planning Unit, Indian Statistical Institute, New Delhi, India.
  - India and Southeast Asia Meeting of the Econometric Society (December 1998), Planning Unit, Indian Statistical Institute, New Delhi, India.
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**References:**

- Satya R. Chakravarty  
Economic Research Unit, SSD, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata-700108, India. **Email:** satya@isical.ac.in, **Tel:** +91-33-25752622.
  - Hervé Moulin  
Adam Smith Business School, Economics, University of Glasgow, Glasgow G12 8QQ, UK. **Email:** Herve.Moulin@glasgow.ac.uk, **Tel:** +44-141-3303993.
  - Arunava Sen  
Economics and Planning Unit, SSD, Indian Statistical Institute, 7, Saheed Jeet Singh Sansanwal Marg, New Delhi-110016, India. **Email:** asen@isid.ac.in, **Tel:** +91-11-41493945.
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