Pinaki Mandal

Curriculum Vitae

Department of Economics,
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Employment

Jul, 2022 onwards	**Postdoctoral Research Scholar**, *Arizona State University*, USA
May, 2022 – Jun, 2022	**Research Associate**, *Kyushu University*, Japan

Education

2016 – 2022	**Ph.D. in Quantitative Economics**, *Indian Statistical Institute*, Kolkata, India
2015 – 2016	**Research Fellow in Statistics**, *Indian Statistical Institute*, Kolkata, India
2013 – 2015	**M. Stat. (Master of Statistics)**, *Indian Statistical Institute*, Kolkata, India Passed with Distinction, Honors
2010 – 2013	**B. Math. (Bachelor of Mathematics)**, *Indian Statistical Institute*, Bangalore, India Passed with Distinction, Honors

Research Interests

Game Theory, Matching, Mechanism Design, and Probability Theory (diffusion processes and percolation processes)

Research

Publications & Forthcoming

1. *"Impossibility of weakly stable and strategy-proof mechanism",* with Sung-Ho Cho, Miyuki Koshimura, Kentaro Yahiro, and Makoto Yokoo. **Economics Letters** (2022), 217:110675.
2. *"Obviously strategy-proof implementation of assignment rules: A new characterization",* with Souvik Roy. **International Economic Review** (2022), 63(1):261-290.
3. *"On obviously strategy-proof implementation of fixed priority top trading cycles with outside options",* with Souvik Roy. **Economics Letters** (2022), 211:110239.

Working Papers

1. *"Simple dominance of fixed priority top trading cycles".* Available at https://arxiv.org/abs/2204.02154.
2. *"(In)compatibility between stability, strategy-proofness, and non-bossiness on single-peaked domains in marriage problem"*

3. *"Maximal domains for stable and strategy-proof matching rules in marriage problem"*

4. *"On percolation in a generalized backbend process"*, with Souvik Roy. Available at https://arxiv.org/abs/2108.10025.

5. *"Strategy-proof allocation of indivisible goods when preferences are single-peaked"*, with Souvik Roy. Available at https://mpra.ub.uni-muenchen.de/105320/.

6. *"Matchings under stability, minimum regret, and forced and forbidden pairs in marriage problem"*, with Souvik Roy. Available at https://mpra.ub.uni-muenchen.de/107213/.

Teaching Experience

Fall, 2022   **Instructor**, *Business Statistics*, Arizona State University, USA

Awards and Recognition

2015 – 2022   **Research Fellowship**, *awarded by Indian Statistical Institute*, Kolkata, India

2014 – 2019   **SPMF (Shyama Prasad Mukherjee) Fellowship**, *awarded by Council of Scientific and Industrial Research (CSIR)*
Declined in favor of Research Fellowship (ISI).

2014   **Prize money**, *awarded by Indian Statistical Institute*, Delhi, India

2008 – 2015   **KVPY (Kishore Vaigyanik Protsahan Yojana)**, *awarded by Indian Institute of Science*, Government of India

2010 – 2015   **Scholarship awarded by Indian Statistical Institute**
Declined in favor of KVPY fellowship.

2008 – 2010   **NTSE (National Talent Search Examination) Scholarship**, *awarded by National Council of Educational Research and Training (NCERT)*
Declined in favor of KVPY fellowship.

Presentations, Talks, and Research Visits

Invited Talks

Mar, 2023   **CIREQ Seminar**, *Concordia University*, Canada

Jul, 2022   **21st Annual SAET Conference**, *Australian National University*, Australia

Nov, 2021   **Workshop: Agents behaviour in combinatorial game theory**, *Centre de recherches mathématiques (CRM)*, Canada

Sep, 2018   **International Workshop on Game Theory and Networks**, *Dibrugarh University*, India

Jun, 2018   **14th Meeting of the Society for Social Choice and Welfare**, *Seoul National University*, South Korea

Jun, 2016   **13th Meeting of the Society for Social Choice and Welfare**, *Lund University*, Sweden

Apr, 2016   **International Conclave on Foundations of Decision and Game Theory**, *IGIDR*, Mumbai, India

Other Talks

Oct, 2022   **Theory Reading Group**, *Arizona State University*, USA

Sep, 2022   **General Economics Workshop**, *Arizona State University*, USA

Dec, 2021   **NC State Theory Seminars**, *NC State University*, USA

Nov, 2020   **Reading Group on Mechanism Design**, *Indian Statistical Institute*, India

Research Visits

Mar, 2023   *Concordia University*, Canada

Dec, 2019   *Ashoka University*, India

Expository Research

2015   **Cycle Monotonicity in Mechanism Design**
Under the supervision of Dr. Souvik Roy, Professor, Economic Research Unit, Indian Statistical Institute, Kolkata, India.

2014   **Performance of Unincorporated Financial Enterprises in India in 2010-11**
Under the supervision of Anindita Sinharay, Director, National Accounts Division, Central Statistics Office, India. Data Source: National Sample Survey Office (NSSO).

2014   **Fourier Series**
Under the supervision of Prof. Rajendra Bhatia, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Delhi, India.

2013   **The Logistic Regression Model: Estimation and Interpretation**
Under the supervision of Prof. V. R. Padmawar, Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore, India.

2012   **Elementary Analysis on Collatz Conjecture and Connection to Ergodic Theory**
Under the supervision of Prof. B. Sury, Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore, India.

2011   **Farey Fractions: Properties, Applications and Relation with Ford Circles**
Under the supervision of Prof. B. Sury, Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore, India.

2010   **Heronian Triangle**
Under the supervision of Prof. Subhamoy Maitra, Applied Statistics Unit, Indian Statistical Institute, Kolkata, India.

Professional Activities

Referee   Games and Economic Behavior, Social Choice and Welfare, Review of Economic Design

Tutoring and Outreach

Jun, 2018 –   **Mentor**, Independent study courses on Linear Optimization, and Econometrics Methods
Nov, 2018

Dec, 2017 –   **Mentor**, Independent study courses in Number Theory, Real analysis, and Ring Theory
May, 2018

Jan, 2016 –   **Mentor**, Independent study course in Game Theory
May, 2016

Skills

- Proficient in statistical analysis and software (SPSS)