

Sayan Mukherjee

General Information

Address Nangi Dharmatala Road, Batanagar, Kolkata - 700140
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D.O.B 12 December, 1995
Nationality Indian

Education

2019– **Doctor of Philosophy**, *Indian Statistical Institute*, Kolkata
Ongoing

- Economic Research Unit
- Supervisor: Dr. Souvik Roy

2017–2019 **M.Stat**, *Indian Statistical Institute*, Kolkata

- Specialization: Theoretical Statistics and Probability
- Passed with First Division

2014–2017 **BSc Hons (Statistics)**, *Presidency University*, Kolkata

- Specialization: Theoretical Statistics and Probability
- Passed with First Division

Research Interests

- Deterministic and stochastic evolutionary dynamics
- Bayesian evolution in games
- Graphon valued evolution in games

Preprints/Publications

1. "Generalized perturbed best response dynamics with a continuum of strategies". Lahkar, R., **Mukherjee, S.**, Roy, S.; *Journal of Economic Theory*, 2021 (forthcoming); <https://doi.org/10.1016/j.jet.2021.105398>
2. "Regularized Bayesian best response learning in finite games". **Mukherjee, S.**, Roy, S.; arXiv link: <https://arxiv.org/abs/2111.13687>.
3. "Deterministic approximation of continuum strategy logit dynamic with an application to super-modular games". Lahkar, R., **Mukherjee, S.**, Roy, S. (in preparation)
4. "Bayesian best response dynamics under continuum logit choice". **Mukherjee, S.**, Roy, S. (in

preparation)

5. "On graphon-valued evolutionary games". **Mukherjee, S.**, Mukherjee, S. S., Roy, S. (working paper)

Talks, Conferences, Workshops

May 2022 **7th Workshop on Stochastic Methods in Game Theory**, *Bayesian best response dynamics under continuum logit choice*, Erice, Italy

Sept 2021 **Learning, Evolution and Games 2021**, *Regularized Bayesian best response learning in finite games*, virtual

Technical Expertise

Basics Microsoft Office

Programming Languages Java, C, C++

Software Packages R, RStudio, Mathematica, Latex

Other Interests

Watching Movies, Music, Sports