

## Anurag Kakkar

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| CONTACT<br>INFORMATION                     | Department of Economics<br>Hansraj College<br>University of Delhi<br>New Delhi-110007.   | Mobile: +91-9910988257<br>Email: <a href="mailto:kakkar.anurag92@gmail.com">kakkar.anurag92@gmail.com</a> ,<br><a href="mailto:anurag@hrc.du.ac.in">anurag@hrc.du.ac.in</a> |
| EDUCATION                                  | <b>Jawaharlal Nehru University</b> , New Delhi. <ul style="list-style-type: none"><li>- Ph.D. Economics (<i>Thesis submitted</i>)<br/><i>Advisor: Dr. Debabrata Pal</i><br/><i>Thesis title: On the structure and formation of Socio-Economic Networks.</i></li><li>- M.Phil. Economics, July 2016<br/><i>Dissertation title: On strategic formation of Socio-Economic Networks.</i></li><li>- M.A. Economics, July 2014</li></ul> <b>Delhi University</b> , Hans Raj College, New Delhi. <ul style="list-style-type: none"><li>- B.A.(hons) Economics, June 2012</li></ul>  |   |
| RESEARCH<br>INTERESTS                      | <ul style="list-style-type: none"><li>- Economics of Networks, Mathematical Economics, Applied Microeconomics, Behavioural Economics.</li></ul>  |   |
| JOURNAL<br>ARTICLES                        | <ul style="list-style-type: none"><li>- Anurag Kakkar and Sharvi Sharma, <i>New Education Policy: Boon or Bane?</i>, Journal - Hans Shodh Sudha, Vol. 2, Issue 3, (2022), pp.12-19, ISSN:2582-9777.</li></ul>  |   |
| ON-GOING<br>RESEARCH                       | <ul style="list-style-type: none"><li>- A Non-cooperative model of network formation with endogenous link strength.</li><li>- Social relations and R&amp;D networks in oligopoly, <i>jointly with</i> Dr. Debabrata Pal.</li><li>- On strategic simultaneous formation of multiplex networks.</li><li>- Strategic link formation and disruption under network effects, <i>jointly with</i> Dr. Debabrata Pal.</li><li>- Communication network with endogenous link strength under strategic disruption, <i>jointly with</i> Dr. Debabrata Pal.</li><li>- Project: Does Peer Monitoring explain learning outcomes? An RCT approach. (<i>jointly with four other PIs</i>).</li></ul> |   |
| CONFERENCE<br>AND SEMINAR<br>PRESENTATIONS | <ul style="list-style-type: none"><li>- 2018: Graduate Research Meet, IIT Guwahati 2018.</li><li>- 2019: 5th International Conference on South Asian Economic Development at South Asian University, Conference on Network Science in Economics at IIM Ahmedabad, Winter School at Delhi School of Economics, XXV IIIth annual conference on Contemporary Issues in Development Economics at Jadavpur University (selected).</li><li>- 2020: International Conference on Recent Trends in Mathematics and Its Ap-</li></ul>  |   |

plications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020) at SCIS Jawaharlal Nehru University, Webinar participation: Teachers and Technology: The Road Ahead at Hansraj College, University of Delhi.

- 2021: 6th International Conference on South Asian Economic Development at South Asian University, XVI International Conference on Public Policy and Management IIM Bangalore, Society for Economics Research in India (SERID) First Annual Conference of the Society for Economics Research for Doctoral Students, 16th Annual Conference on Economic Growth and Development, Indian Statistical Institute, Delhi.
- 2022: International Conference on Contemporary Issues in Economics, XIM University in association with ICSSR.

#### WORK EXPERIENCE

- Teaching:  
Assistant Professor (Ad-hoc), Department of Economics, Hans Raj College, Delhi University, since August 2019 till now.

Course Instructor: Statistical Methods for Economics (2019, 2021)  
 Course Instructor: Intermediate Macroeconomics-II (2020)  
 Course Instructor: Intermediate Macroeconomics-I (2020)  
 Course Instructor: Mathematical Methods for Economics-I (2020, 2021)  
 Course Instructor: Mathematical Methods for Economics-II (2021, 2022).

- Summer Internship:  
Department of financial services, Ministry of Finance, India.  
 Project : *Regulating the regulators: Changing face of financial supervision*  
 The project deals with analysis of proposals made by Financial Sector Legislative Reforms Commission (FSLRC) report, 2013 regarding changes in financial sector.

#### HONORS AND AWARDS

- UGC-NET SRF Economics (from Sept,2017 till August, 2019)
- UGC-NET JRF Economics (from Sept,2015 till Sept, 2017)
- Central Sector Scholarship Scheme (CSSS) by Govt of India (July,2009- July,2014)
- Indira award for securing third position all over Delhi in AISSE (2007)

#### ADMINISTRATIVE SERVICE

- Member, Examinations committee (2019, 2020).
- Member, Admissions committee Economics Dept (2020, 2021).
- Member, Criterion VII NAAC committee (2020, 2021, 2022).
- Associate Editor, Journal-Hansshodhsudha (2020, 2021, 2022).
- Member organiser for the webinar “Machine Learning for Economists: An Introduction”, 2021.
- Course coordinator for the eight-week online certificate course on “Introduction to Machine Learning for Economics”, 2021.

- Founding seminar coordinator for Economics seminar series 2021-22.
- Member, NIRF and India Today ranking committee.
- Member, Organizing committee, Probing the Frontiers - Contemporary Research Methodologies in Economics (International FDP).
- Member, Enactus society, 2021.
- Department nominee, Help Desk committee, 2021.
- Department nominee, IQAC, 2021.
- Member, E-Samvaad Centre, MHRFDC, 2022.
- Faculty Coordinator, Economics Students' Research Conference-Research Kshetra 2022.

**JOB MARKET  
PAPER**

- **Social Relations and R&D Networks in Economics**  
(*jointly with* Dr. Debabrata Pal)

In this paper, we study, how social relations among the firm owners, employees influence their decision to form R&D collaborations with each other. We consider an oligopoly market set-up with  $n$  homogeneous firms. Each firm has a representative individual (owner/manager). We examine, how exogenously given social relations (such as friendship, trust, kinship) among the representative individuals influence the evolution of the R&D collaborations network among the firms. Since firms (owners) are involved in multiple layers of interactions, we adopt a multiplex network approach to study R&D network formation. Firms first decide about their levels of investment in R&D collaborations which reduces the marginal costs of production and then engages in Cournot quantity competition. Firms decisions about R&D collaboration are swayed by their given social relations which we capture by a social network (we call it trust network). We look at the structure of the Nash networks of the game, generated by the equilibrium investment strategies of the firms (we call it Nash R&D network) and examine how the structures of Nash R&D networks change as the structure of underlying trust network changes. We show, in the equilibrium firms do not always collaborate with trusted partners. The structure of the Nash network is such that firms collaborate either with a firm that is a trusted partner (friend) or with all the existing firms. We introduce a notion of pairwise stability in line with the definition provided by Jackson and Wolinsky (1996) and show that only a completely connected Nash R&D network structure turns out to be pairwise stable. No efficient Nash R&D network emerges in our framework.

**LANGUAGE &  
COMPUTER  
SKILLS**

- $\text{\LaTeX}$ , Python
- Software packages: STATA, R, PSPP.