T.C.A. MADHAV RAGHAVAN

CURRENT EMPLOYMENT

October 14 - Present Retainer Consultant MoRD, Government of India New Delhi, India

- Monitoring and Evaluations (M&E) Expert
- Working with the Deen Dayal Upadhyay Grameen Kaushalya Yojana (DDU-GKY) the flagship vocational training and skills mission of the Ministry of Rural Development (MoRD), Government of India
- Aim: Streamlining the operations of DDU-GKY, identifying and fixing problem areas in implementation.

DOCTORATE

August 08 - Present Senior Research Fellow Indian Statistical Institute New Delhi, India

- PhD programme in economic theory thesis supervisor Prof. Arunava Sen.
- Areas of specialisation: Matching theory, axiomatic resource allocation.
- Thesis submitted: July 2014
- Skills acquired: Analytical problem solving, critical thinking, detail-oriented solutions.

DOCTORAL RESEARCH

Essays on Fairness, Efficiency and Strategy-Proofness in Models with Exact Constraints

- "Project Assignment via Priority Trading". We consider a goods allocation problem on a domain where multiple agents may be given copies of the same object. We assume that such objects have a capacity constraint that must be exactly satisfied. We propose a rule which we call the Pairwise Priority Trading (PPT) Rule, and show that it characterises the set of all rules in this model that satisfy the standard properties of strategy-proofness, limited influence, unanimity and neutrality. It is also group-strategy-proof and Pareto efficient. The PPT rule can be thought of as a generalisation of the famous top trading cycles procedure to this particular environment.
- "Fair Assignment with Capacity Constraints". We consider a matching problem in an environment where objects have the same maximum and minimum capacity. We propose a rule which we call the Deferred Acceptance with Improvements (DAI) rule, which is fair and constrained efficient in this exact capacity environment. We also identify a Pareto improvement procedure that always leads us to a fair and constrained efficient allocation. We show, however, that the DAI rule is not strategy-proof.
- "On Weak Group-Strategy-Proofness". Group-strategy-proofness is the extension of strategy-proofness to groups of agents. This property comes in a standard form and a weak form. The distinction between the two forms is non-trivial as important rules in the literature fail the standard form but satisfy the weak form. We identify conditions (which we call ultra-weak Maskin monotonicity and weak non-bossiness) that are sufficient to ensure that a strategy-proof rule is weakly group-strategy-proof. We also demonstrate that the conditions are 'weak enough'.

EDUCATION

2005-07 M.A Econ, Ist class Delhi School of Economics, Delhi University New Delhi, India 2002-05 B.A (Hons.) Economics McGill University Montreal, Canada

Work Experience

February - October 09 Research Assistant Harvard Business School Cambridge, MA

- Question: Did industrial delicensing and liberalisation in India affect competitiveness in industry?
- Data: State-owned, private, and foreign-owned firms and their balance sheets from 1989-2007.
- The project was sponsored by the Brookings Institution, and published as NBER WP 15448.

June 07 - July 08 Analyst JPMorgan Services India Pvt. Ltd. Mumbai, India

- I worked directly with Adrian Mowat, Chief Asian and Emerging Market Equity Strategist at JPMorgan, ranked #2 in Asia Pacific in 2007-08 by *Institutional Investor*.
- My work comprised formulating, developing and tracking JPMorgan's equity investment strategy across the worlds emerging markets. My beat was the north Asian markets of China, Korea and Taiwan, that had a combined weight of almost 50% of the benchmark MSCI equity index.

ACADEMIC PUBLICATIONS

- "Foreign Direct Investment in India's Retail Bazaar: Opportunities and Challenges", with Anusha Chari, World Economy, Vol.35, Issue 1, pp.79-90, 2012.
- "The Crisis in Global Finance", with T.C.A. Srinivasa Raghavan, Eternal India, Vol.1, No.2, 2008.

SEMINARS AND TALKS GIVEN

- CIREQ Montreal Matching Conference, Montreal, Canada, March 2014
- Conference on Economic Design, Lünd, Sweden, July 2013
- SING9 conference on game theory, Vigo, Spain, July 2013
- The XIth Meeting of the Society for Social Choice and Welfare, New Delhi, August 2012
- Doctoral Students Workshop, Indian Statistical Institute, New Delhi, March 2012

AWARDS AND SCHOLARSHIPS

- March 2014: Travel grant from Shastri Indo-Canadian Institute
- 2008-2010: Special JR Fellowship, Indian Statistical Institute, sole recipient

Newspaper articles

- "A prize to put regulators to work", Financial Express, 15 October 2014 The 2014 economics Nobel Prize winners.
- "The maths behind a comedy", Business Standard, 16 January 2014 Review: The Simpsons and their Mathematical Secrets, Simon Singh.
- "Divining stock price forecasts", Financial Express, 16 October 2013 The 2013 economics Nobel Prize winners.
- "A look at some of India's biggest problems", Sunday Guardian, 15 December 2012 Review: Indianomix: Making Sense of Modern India, Vivek Dehejia and Rupa Subramanya.
- "A prize for matchmaking", *Hindu Business Line*, 17 October 2012 The 2012 economics Nobel Prize winners.
- "Says money to power, pass my bills and I'll pay yours", Sunday Guardian, 29 January 2012 Review: The Price of Civilization, Jeffrey Sachs.
- "Gurus of macroeconomics", *Hindu Business Line*, 12 October 2011 The 2011 Nobel Prize winners.
- "Economics for the layman", The Sunday Guardian, 1 May 2011 Review: An Economist's Miscellany, Kaushik Basu.
- Columnist, March November 10, *The Sunday Guardian* Techno Babel: A weekly column on technology and society.

- "A good climate for technology", *Mint*, 24 August 2009 India need not wait for an international treaty to move towards cleaner technologies.
- "Integrating factors", Business Standard, 17 April 2009
 Political radicalism in India remains at the fringes because we are largely an open society.
- "Shock and alter", Business Standard, 20 March 2009

 If we are not careful, changes in incentives to save could sharply reduce aggregate savings and investment.

Other interests: Guitar, classic rock, cricket, European football, science writing, Japanese food, detective fiction, gardening

Languages: I speak three languages fluently - English, Hindi, Tamil - y un poco de español.