

# Curriculum Vitae

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### EDUCATION

Delhi University, Delhi, India

B.A. in Economics (Honours) 1980-1983.

Indian Institute of Management, Ahmedabad, India.

Post Graduate Diploma in Management (M.B.A) 1983-1985.

Cornell University, Ithaca, USA.

M.A. in Economics 1989.

Ph.D. in Economics 1986-1990. Supervisor: David Easley.

Committee: Larry Blume, Tapan Mitra and Karl Shell.

### APPOINTMENTS

Assistant Professor, Erasmus University. Netherlands. 1990-1997.

Professor of Mathematical Economics, Erasmus University. Netherlands. 1998 -2001.

Professor of Economics, Queen Mary, University of London. UK. 2001-2003.

Professor of Economics, University of Essex. UK. 2003-2006.

Reader in Economics, University of Cambridge, UK. 2006-2007.

Professor of Economics, University of Cambridge, UK. 2007-

Professorial Fellow, Christ's College, Cambridge. UK. 2008-

### VISITING POSITIONS/AFFILIATIONS

Visiting Professor: University of Cambridge 1996. Boston University 1996. Cowles Foundation, Yale University, 1998. GREQAM, Marseille 2004-2005; University Paris 2, 2008-2014. MIT, 2012. University of Bordeaux 2012, 2014.

Visiting Researcher: Microsoft Research, Cambridge, UK. 2010-2012.

### ADMINISTRATIVE POSITIONS

Member of Advisory Board, Tinbergen Institute, Rotterdam-Amsterdam 2000-2003.

Director, Recruitment & Research Strategy, Faculty of Economics, Cambridge, 2009-2012.

Founding Director, Cambridge-INET Institute, 2012-2014.

Chair, Faculty of Economics, Cambridge, 2014- .

## PRIZES AND FELLOWSHIPS

National Talent Scholarship, Government of India. 1978-1985.  
Merit Scholarship, Government of Assam, India. 1978-1980.  
Gold Medal for First Position in B.A (Honours), Delhi University, India. 1980-1983.  
Industrial Scholarship, Indian Institute of Management, Ahmedabad. India. 1984-1985.  
Andrew D. White Fellowship, Cornell University, Ithaca. USA. 1986-1988.  
Research Fellow, Tinbergen Institute. Netherlands. 1995- .  
Keynes Fellowship, University of Cambridge, 2011- .  
Distinguished Visitor, Faculty of Economics, University of York, 2011.

## PUBLICATIONS

### A. Book

1. **Connections: an introduction to the economics of networks.** Princeton University Press. October 2007.  
Paperback edition published in 2009.  
Chinese translation published by Peking University Press in 2010.

### B. Articles

1. The Birth of a New Market (1994), *Economic Journal*, 1994, 104, 282-290. (with V. Bala)
2. On the Possibility of Efficient Bilateral Trade (1994), *Economic Design*, 1, 79-102.
3. A Theory of Learning with Heterogeneous Agents (1995), *International Economic Review*, 36, 2, 303-323. (with V. Bala)
4. Dynamic Coordination Failures and The Efficiency of the Firm (1995), *Journal of Economic Behavior and Organization*, 1995, 28, 2, 223-241. (with M. Janssen)
5. Technological Change in Markets with Network Externalities (1995), *International Journal of Industrial Organization*, 13, 3, 307-325. (with P. de Bijl)
6. Can We Rationally Learn to Coordinate? (1996), *Theory and Decision*, 40, 1, 29-49. (with M. Janssen)
7. Interaction Structure and Social Change (1996), *Journal of Institutional and Theoretical Economics*, 152, 3, 472-495.
8. Costs of Flexibility and Equilibrium Selection (1997), *Journal of Mathematical Economics*, 1997, 28, 249-264. (with B. Galesloot)
9. Non-Exclusive Conventions and Social Coordination (1997), *Journal of Economic Theory*, 77, 34-57. (with M. Janssen)
10. Grace Periods in Patent Law (1998), in Mike Baye (eds), *Advances in Microeconomic Theory: Contests*, 1998. JAI Press. New York. (with E.E De Laat)

11. Learning From Neighbors (1998), *Review of Economic Studies*, 1998, 65, 595-621. (with V. Bala)
12. A Non-Cooperative Model of Network Formation (2000), *Econometrica*, 68, 5, 1181-1231. (with V. Bala)
13. A Strategic Analysis of Network Reliability (2000), *Review of Economic Design*, 2000, 5, 3, 205-229. (with V. Bala)
14. Conformism and Diversity under Social Learning (2001), *Economic Theory*, 17, 1, 101-121. (with V. Bala)
15. Group Size and Collective Action: Third Party Monitoring in Common Pool Resources (2001), *Comparative Political Studies*, 34, 1, 63-94. (with A. Agarwal)
16. R&D Networks (2001), *Rand Journal of Economics*, 32, 4, 686-707. (with J.L. Moraga)
17. Market Integration and Technological Change (2002), *Netnomics*, 4, 19-37. (with P. De Bijl)
18. Networks of Collaboration in Oligopoly (2003), *Games and Economic Behavior*, 43, 57-85. (with S. Joshi)
19. Firms, Networks and Markets: a survey of recent research (2003), *Review Economique Industrielle*, 103, 207-232. (with J.L. Moraga)
20. The Political Economy of Regionalism (2004), *European Economic Review*, 48, 563-593. (with K. Staal)
21. Strong and weak links (2005), *Journal of European Economic Association*, 3, 608-616.
22. Learning in networks (2005), in G. Demange and M. Wooders (eds) *Group Formation in Economics: Networks, clubs and coalitions*. Cambridge University Press, Cambridge.
23. Network formation and social coordination (2005), *Games and Economic Behavior*, 50, 178-207. (with F. Vega-Redondo)
24. Social interaction in anti-coordination games (2004), *International Journal of Game Theory*, 33, 1-20. (with Y. Bramoulle, D. Lopez, F. Vega-Redondo)
25. Network formation with heterogeneous players (2006), *Games and Economic Behavior*, 54, 353-372. (with A. Galeotti and J. Kamphorst)
26. Bilateralism and Free-Trade (2006), *International Economic Review*, 47, 3, 749-778. (with S. Joshi),
27. Economics: an emerging small world? (2006), *Journal of Political Economy*, 114, 2, 403-412. (with J.L. Moraga and M. van der Leij),
28. Unequal connections (2006), *International Journal of Game Theory*, 34, 3, 319-349. (with S. Joshi),

29. Structural Holes in Social networks (2007), *Journal of Economic Theory*, 137, 1, 460-492. (with F. Vega-Redondo)
30. Hybrid R&D (2008), *Journal of European Economic Association*, 6 (6), 1309- 1338. (with J.L.Moraga and A. Kononov)
31. Influencing and influencers: a theory of strategic diffusion (2009), *Rand Journal of Economics*, 40, 3, 509-532. (with A. Galeotti)
32. Keeping up with the Neighbors: Social Interaction in a Market Economy (2010), *Journal of European Economic Association*, 8, 1, 90-119. (with C. Ghiglino)
33. Matching and Network Effects (2010), *Journal of European Economic Association*, 8, 1, 203-231. (with M. Fafchamps and M. van der Leij),
34. Network Games (2010), *Review of Economic Studies*, 77, 1, 218-244. (with A. Galeotti, M. Jackson, F. Vega-Redondo, L. Yariv)
35. The Law of the Few (2010), *American Economic Review*, 100, 1468-1492. (with A. Galeotti)
36. Social Networks in Economics (2011), in *Handbook of Social Network Analysis*. Edited by Peter Carrington and John Scott.
37. Learning in Networks (2012), in *Handbook of Social Economics*. Edited by Jess Benhabib, Alberto Bisin, and Matthew Jackson.
38. Strong Ties in a Small world (2011), *Review of Network Economics*. (with M. van der Leij)
39. Social Networks on the Web (2012), *Handbook of the Digital Economy*. Edited by Martin Peitz and Joel Waldfogel.
40. Network multipliers: the optimality of targeting neighbours (2012), *Review of Network Economics*. (with A. Galeotti)
41. Network defence and design (2013), *Games and Economic Behavior*, 79, 30-43. (with M. Dziubinski)
42. Contagion and Observability in security domains (2013), *Allerton Conference on Communications, Control, and Computing*, 1364-1371. (with Y Bacharach and M. Draief),
43. Social Networks and Research Output (2014), *Review of Economics and Statistics*, 96, 5, 936-948. (with L. Ductor, M. Fafchamps and M. van der Leij)
44. Competitive Contagion in Networks (2012), *Proceedings of Symposium on Theory of Computing (STOC)*. (with M. Kearns)  
Expanded version (with H. Heidari and M. Kearns) forthcoming in *Games and Economic Behavior*, 2014.
45. Attack, defense and contagion in networks (2014), *Review of Economic Studies*, 81, 4, 1518-1542. (with A. Vigier)

46. Conflict in networks, to appear in *The Oxford Handbook of Networks* edited by Y. Bramouille, A. Galeotti and B. Rogers.
47. Networks in Economics, to appear in *The Oxford Handbook of Networks* edited by Y. Bramouille, A. Galeotti and B. Rogers.
48. Interaction, Protection and Epidemics, to appear in *Journal of Public Economics*, (with A Vigier)

## GRANTS

1. Principal investigator: *Strategic Networks of R&D Collaboration*, 2001-2005. Co-investigator: Jose Luis Moraga-Gonzales. Awarded by Dutch Science Foundation (NWO). Amount: Dutch Guilders: 409,000/-
2. Principal investigator: *Influencing the influencers: a theory of strategic diffusion*. 2006-2007. Co-investigator: Andrea Galeotti. Awarded by Economic Social Research Council, UK. Amount: GBP 64,535/- *Output Rated Outstanding*.
3. Principal Investigator for Research Seminars Grant 2011-2012. Co-investigators: Andrea Galeotti and Marcel Fafchamps. Awarded by Economic Social Research Council, UK. Amount: GBP 18,145/-
4. Principal Investigator *Resilience of Economic and ecological systems*. 2011-2012. Co-PI's: Angel Sanchez, Antonio Cabrales, A. McKane, M. Rietkerk, Miguel Zavala. Awarded by Complexity Net Call and Engineering and Physical Sciences Research Council, UK. Amount: Euros 500, 000/-
5. Exploratory Workshop *On Diffusion and Information in Networks*. 2011. Co-organizers: Marcel Fafchamps and Edoardo Gallo. European Science Foundation. Euros 14,000/-.
6. Principal Investigator, *Experiments on Financial Networks*. 2012. Keynes Fund for Applied Economics. GBP 18,500/-
7. Principal Investigator, *Experiments on Networked Markets*, 2014. Keynes Fund for Applied Economics. GBP 13,000/-

## EDITORIAL POSITIONS

*Network Science*: Founding Co-editor. 2012- 2014.  
*Review of Network Economics*. Editorial Board. 2010-

## INVITED LECTURES

### A. Keynote and Named Lectures

10<sup>th</sup> Workshop on Economic Heterogeneous Interacting Agents. UK. 2005.  
 Social Networks Spark Conference. Unilever. UK. 2008.

GameNets: International Conference on Game Theory for Networks. Turkey. 2009.  
17<sup>th</sup> Workshop on Economic Heterogeneous Interacting Agents. France. 2012.  
Pareto Lecture, Association of Southern European Economic Theorists (ASSET), Cyprus. 2012.  
Annual Lecture, European Academy of Sociology. Paris. 2013.  
Keynote Lecture in Belgian Networks Meetings, 2013.  
Keynote Lecture, Economics and Management of Networks, Agadir, Morocco, 2013.  
Keynote Lecture, Southern California Meeting UCLA, USA, 2013.  
Keynote Lecture, Agriculture and Applied Economics Association, Montreal, Canada, 2014.

## **B. Invited talks**

“Networks” at European Economic Association Meetings. Spain. 2004.  
Structure and Function of Complex Networks, Trieste, Italy. 2005.  
ADRES, Networks of Innovation and Spatial Analysis of Knowledge Diffusion. France. 2006.  
Coalitions and Networks, CORE, Belgium. 2007.  
“Empirical study of social networks”, Econometric Society Meetings, Budapest, Hungary. 2007.  
CS-Economics Conference. Cornell University. USA. 2009.  
Workshop on Information Networks. New York University, USA. 2009, 2010, 2011, 2012.  
Social Interactions, Networks and Health II. Harvard University, USA. 2009.  
‘Social Networks’ at European Economic Association Meetings, Glasgow. UK. 2010.  
Psychology and Economics of Scarce Attention, Toulouse. France. 2011.  
Latsis Symposium, Zurich. Switzerland, 2012.  
‘Networks and Markets’, World Congress of the Econometric Society, Montreal, 2015.

## **C. Research Lectures/Summer schools**

Lectures, Alicante, Spain (1999). Ph.D Lecture Course on Networks, Tinbergen Institute, Netherlands (2005). Graduate Course on ‘Economics of Networks’, Institute for Advanced Studies, Vienna, Austria (2006). Lectures to Interdisciplinary Research Group on “The Economics Approach to Study of Networks”, University of Utrecht, Netherlands (2006). Joint Research Lectures for CREED, Tinbergen Institute & ENCORE, Amsterdam, Netherlands (2003). Network Science Annual Conference UK (2008). RES Easter School, UK (2009). NAKE Lectures, Netherlands (2009). Trento Summer School, Italy (2009, 2011), Indian Institute of Science, Bangalore (2012). Cambridge Summer School in Social Economics, England (2014). Berlin Lectures, Germany (2014). Sao Paulo Lectures, Brazil (2014).

## **D. Seminars**

**International:** Amsterdam, Netherlands (1997, 2000, 2001, 2012). Tilburg, Netherlands (1991, 1994, 1997, 2000, 2010). McGill, Canada (1991). Rochester, USA (1991). Seminaire Fourgeaud, Paris, France (1991). Seminar Mathematical Economics, Paris, France (1992). Cornell, USA (1992, 1996, 1998, 2005, 2009). Louvain, Belgium (1992, 1995, 2004). Marseille, France (1992, 2003, 2004). Indian Statistical Institute, New Delhi, India (1992,1993, 1995, 1999). Yale, USA (1998, 2000, 2012). Georgetown, USA (1999, 2006). Laboratoire d’Economie Industrielle, Paris, France (1993). Boston University (1998, 2010), Maastricht, Netherlands (1998). Alicante, Spain (1999, 2000, 2007). Brussels, Belgium (1999, 2014). Bonn, Germany (2000). Toulouse, France (2001, 2014). Seminar

Roy, France (2001, 2006). European University Institute, Italy (2001, 2009). Munich, Germany (2001). Zurich, Switzerland (2002). Barcelona, Spain (2002). California Institute of Technology, USA (2004). UC Berkeley, USA (2004, 2013). UC Irvine, USA (2004). UCLA, USA (2013). Brown University, USA (2005). Northwestern University, USA (2005), University of Wisconsin, USA (2005). Boston College, USA (2006). George Washington University, USA (2006). Harvard University, USA (2006). University of Maryland, USA (2006). Vienna, Austria (2006). University of Texas, Austin, USA (2007); Rice University (2007), Southern Methodist University, USA (2007); Hebrew University, Israel (2007); Tel Aviv University, Israel (2007); INSEAD, France (2007); Michigan, Rutgers, USA (2007); Vanderbilt, USA (2008), Arkansas, USA (2008), Paris University II, France (2008, 2009, 2010); European University Institute, Italy (2008, 2012), University of Utrecht, Netherlands (2008); National University Singapore (2009). Columbia University, USA (2010), Penn State University, USA (2010), Mannheim University, Germany (2010), HEC, Paris, France (2010), MIT, USA (2012), Frankfurt, Germany (2012). Hong Kong University for Science and Technology, 2013. University of Zurich, 2013.

**United Kingdom:** Cambridge (1996, 2002, 2004), Essex (1992, 1996, 2002, 2004, 2006). Warwick (1992, 1996, 2004, 2008, 2009, 2011). St.Andrews (2001), University College London (2001, 2003). Birkbeck (2002). Edinburgh (2002). London Business School (2002), London School of Economics (2002, 2011). Newcastle (2002). Oxford (2004, 2009, 2014). Norwich (2012)

## DOCTORAL STUDENTS SUPERVISION

### A. Current students

1. Julian Gagnon
2. David Minarsh
3. William Carpenter

### B. Previous students (with first appointment):

1. Eric de Laat (Ministry of Health. Netherlands)
2. Klaas Staal (University of Bonn. Germany)
3. Andrea Galeotti (University of Essex (UK)/Caltech. USA)
4. Marco van der Leij (University of Alicante. Spain)
5. Willemien Kets (Santa Fe Institute. USA)
6. Ana Babus (University of Cambridge. UK)
7. J. Roberto Parra-Segura (RBB Economics, London. UK)
8. Alessio D'Ignazio (Bank of Italy, Rome. Italy)
9. Adrien Vigier (CORE, Louvain. Belgium)
10. Bryony Reich (UCL, London. UK)
12. Oliver Baetz (McKinsey Consultants, Berlin)
12. James Rutt (UK Civil Service).
13. Diego Cerdiero (IMF).

## SEMINAR & CONFERENCE ORGANIZATION

### A. Large Conferences

Scientific Council for Workshop on Economic Heterogeneous Interacting Agents. 2001.  
Programme Committee for Econometric Society European Meetings. 2002.  
Programme Committee for European Economic Association Meetings. 2004.  
Programme Committee for European Economic Association Meetings. 2005.  
Programme Committee for World Congress, Econometric Society, Montreal, 2015.

### B. Specialized Conferences/Seminar Series

Individual Rationality and Social Norms, Tinbergen Institute. Netherlands. 1993.  
Economics of Networks, Tinbergen Institute. Netherlands. 1999.  
Economic Theory Seminar Series, The Tinbergen Institute. Netherlands. 1993-2000.  
Econometric Institute Seminar Series, Netherlands. 1995-2000.  
Research on Monday Seminar Series, Erasmus University, Netherlands. 1995-2001.  
Frictionless Economy?, Tinbergen Institute. Netherlands. 2001.  
Inaugural Lipsey Lectures, University of Essex. UK. 2004.  
Diffusion in Networks, University of Essex. UK. 2007.  
Networks and Games, University of Tilburg, Netherlands. 2008.  
The empirical analysis of networks, University of Alicante, Spain. 2008.  
Microeconomics Seminars, Faculty of Economics, University of Cambridge. UK. 2008-2010. 2012-  
Reading Group: Networks and Theory, University of Cambridge, UK. 2007-  
Information and Behavior in Networks. Nuffield College, University of Oxford. UK. 2010.  
Microsoft-CREMIC Joint Conferences, Cambridge, UK. 2009-2012.  
ESRC Seminars on Networks, Cambridge-Essex-Oxford, UK. 2011-2012.