

# CURRICULUM VITAE – SHYAMA V. RAMANI

**JANUARY 2017**

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# SHYAMA V. RAMANI

## 1. CURRENT EMPLOYMENT

Professorial Fellow at UNU-MERIT (United Nations University) and Professor at Maastricht University, at Maastricht, The Netherlands.

On leave of absence from INRA (Institut National de la Recherche Agronomique), France.

## 2. EMPLOYMENT HISTORY

- Professor of Innovation and the Social Enterprise at the Brunel Business School of Brunel University, The United Kingdom (October 2012- April 2014).
- 2010– Oct 2012, Professor of the Economics of Health, Life Sciences and Development at Maastricht University and Professorial Fellow at UNU-MERIT at Maastricht.
- 2009–2010, Senior Researcher in UNU-MERIT, The Netherlands.
- 1994– *present*, Chargée de Recherche I class at INRA, France (on leave of absence).
- 1990– Recruited as Chargée de Recherche II class at INRA, France.
- 1987–1988, “Teaching assistant” at Cornell University, Ithaca, NY, U.S.A.
- 1983–1985, “Lecturer” at the Indian Statistical Institute, New Delhi, India.
- 1982–1983, “Lecturer” at St.Stephens’s College, New Delhi, India.

## 3. CURRENT RESEARCH INTERESTS

- Role of technology and innovation in development:
  - Evolution of the nanotechnology sectors in India;
  - Evolution of the biotechnology sectors in India;
  - Strategies for catching-up in the post-TRIPS<sup>1</sup> era;
  - Innovation in delivery platforms of essential commodities like water; sanitation and medicines to the BoP (Bottom of pyramid) communities
- Innovation, Corporate Social Responsibility, Social Entrepreneurship:
  - Reinforcing the CSR component in innovation strategies;
  - Games between regulators, firms and activists in innovation diffusion;
  - Lessons for innovation diffusion strategy and policy design from social entrepreneurs;
  - Going beyond BoP2 protocols.
  - Gender and Entrepreneurship.

## 4. ACADEMIC BACKGROUND

### 4.1. EDUCATION

- **Ph.D.** in economics at Cornell University, U.S.A. with the “Andrew D. White Fellowship” (1985-1989). {Three Essays in Strategic Market Games (Non-cooperative game theory) }
- **M.A.** in economics at Jawaharlal Nehru University, New Delhi, India (1980-1982).
- **B.A. (Honours)** in economics at Lady Shri Ram College, University of Delhi, India (1977-1980).

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<sup>1</sup> Trade Related Aspects of Intellectual Property Rights

## 4.2. ADDITIONAL TITLE

- Granted the ‘Habilitation à diriger les recherches (**HDR**)’ en Sciences Economiques, Université Pierre Mendès France de Grenoble in 2000, i.e. the right to supervise doctoral work in French universities.

## 4.3. VISITING FACULTY

- Associated Researcher of the Department of Economics of the Ecole Polytechnique of Paris (2000 – 2014).
- University of Rouen, France (December, 2013).
- Earth Institute, Columbia University (July 2004).
- Institut Supérieur de Gestion, Tunis (March 2003).
- Ecole Normale Supérieure at Cachan (2002-2003).
- University of Agricultural Sciences at Bangalore (July-Aug 1999); (July-Aug 2003).
- Indian institute of Management at Bangalore (July-Aug 1994-1998); (July-Aug 2003).

## 5. TEACHING EXPERIENCE (1982-85; 1988-2013)

- Entrepreneurship [2012-2013]: Brunel Business School, Brunel University, UK.
- Technology Management [2012-2013]: Brunel Business School, Brunel University, UK.
- Theory of the firm and industrial organization [2011]: ESTP Paris
- Introduction to Game Theory [2009-2011]: UNU-MERIT
- Economics of innovation [2003-09]: ENS Cachan, ENSAM Paris.
- Applied Microeconomics and Game Theory [1988-2003]: ENS Cachan, DEA-UPMF Grenoble, Maîtrise -UPMF Grenoble, DEA-ENSIMAG Grenoble, ESC-Grenoble, MBA-IIM, Bangalore, India, Cornell University, U.S.A.
- Economics of development [1998-2003]: ESC-Grenoble, Univ. de Haut Savoie.
- Macroeconomics [1982-1985]: St.Stephen’s College, ISI, New Delhi, India.

## 6. PUBLICATIONS

### 6.1. PUBLICATIONS IN REFEREED JOURNALS

*Economics, Management Science and Sociology*

1. “On diarrhoea in adolescents and school toilets: Insights from an Indian village school study” with Timothée Frühauf and Arijita Dutta, forthcoming in *Journal of Development Studies*.
2. “Catalysing Innovation for Social Impact: The Role of Social Enterprises in the Indian Sanitation Sector” with Shuan SadreGhazi and Suraksha Gupta, forthcoming in *Technological Forecasting and Social Change*.
3. “On incidence of diarrhoea among children in India: Can the Gordian knot of complementarities be cut?” with Arijita Dutta and Gitanjali Hajra, *Economic and Political Weekly* Vol. 51, Issue No. 22, 28 May, 121-129 (2016).
4. “Emergence of Controversy in Technology Transitions: Green Revolution and Bt cotton in India”, with Ajay Thutupalli *Technological Forecasting and Social Change*, 100, 198–212 (2015).
5. “Access to Critical Medicines: When are compulsory licenses effective in price negotiations?” with Eduardo Urias, *Social Science & Medicine*, 135, 75-83 (2015).

6. “Can breakthrough innovations serve the poor (bop) and create reputational (CSR) value? Indian case studies” with Mukherjee V., *Technovation* 34, 295-304 (2014).
7. “The harnessing of biotechnology in India: Which roads to travel?” with S.Reid *Technological Forecasting and Social Change* 79( 4), 648–664, (2012).
8. “Explaining divergence in catching-up in pharmaceuticals between India and Brazil using the NSI framework” with S. Guennif, *Research Policy*. 41, 430–4414 (2012).
9. “On the Diffusion of Toilets as Bottom of Pyramid Innovation: Lessons from Sanitation Entrepreneurs” with S. SadreGhazi and G. Duysters, *Technological forecasting and social change*. 79, 676–687, (2012).
10. “R&D Cooperation, Asymmetric Technological Capabilities and Rationale for Technology Parks” with V. Mukherjee, *Theory and Decision*. 71, 373-394, (2011)
11. “Experimentation with strategy and evolution of dynamic capability in the Indian Pharmaceutical sector” with S. Athreye and D. Kale, *Industrial and Corporate Change* 18(4):729-759, (2009).
12. “On estimating a knowledge production function at the firm and sectoral level using patent statistics” with M. El-Aroui and M. Carrere, *Research Policy* 37, 1568-1578 (2008).
13. “Opportunism, trust and cooperation: A game theoretic approach with heterogeneous agents” with M. L. Cabon-Dhersin, *Rationality and Society* 19 (2): 203-228 (May 2007).
14. “La rationalité des agents économiques va t-elle toujours à l’encontre de la coopération ?Le cas du jeu de la poule mouillée”, with M.L. Cabon-Dhersin, *Revue d’Economie Politique* 117 (2): 271-284, (Mar-Apr 2007).
15. “Can Social Externalities Solve the Small Coalitions Puzzle in International Environmental Agreements?” with M. L. Cabon-Dhersin, *Economics Bulletin*, Vol. 17, No. 4, 1-8. (2006).
16. “Les externalités sociales permettent-elles de résoudre la controverse théorique des « petites coalitions stables » dans les accords environnementaux ” with M.L. Cabon-Dhersin, *Revue économique*; 57(3): 431-38, (May 2006).
17. “TRIPS and its possible impact on the biotech based segment of the Indian pharmaceutical industry”, with A. Maria, *Economic and Political Weekly of India*, Feb 12-18, 675-683, (Feb, 2005).
18. “Does trust matter for R&D cooperation? A game theoretic examination” with M. L. Cabon-Dhersin, *Theory and Decision*. 57, 143-180 (2004).
19. “Risk Aversion and the efficiency wage contract” with O. Chouikhi, *Labour*, 18 (1), 53-73, (2004).
20. “Who’s interested in biotechnology: R&D strategies, knowledge base and market sales of Indian biopharmaceutical firms” *Research Policy* vol. 31, 381-398 (2002).
21. “Country specific characteristics of patent applications in France, Britain and Germany in the biotechnology sectors” with M. A. Delooze, *Technology Analysis and Strategic Management*, vol. 14, no. 4, 457-480 (2002).
22. “Partner selection and Contract Design in the Indian biotechnology sectors” with P. Audinet et M. ElAroui, *The Developing Economies*, vol. 39, no.1, 85-111, (2001).
23. “Technology cooperation between firms of developed and less-developed countries”, *Economic Letters* vol. 68, 203-209, (2000).
24. “Networks and Technological competence: An analysis of some NBFs in the biotechnology sectors in France and Britain” with J. Estades, *Technology Analysis and Strategic Management*, vol. 10, no.4, 483-495, (1998).
25. “Trajectoires technologiques et mobilisation de réseaux dans des PME de biotechnologies en France et en Grande Bretagne”, with J. Estades, *Revue Internationale PME*, vol. 10, no.3-4, 39-56, (1997).

26. "Technology Creation in the Biotechnology Sectors: The French Connection" with D. Jolly, *International Journal of Technology Management*, Special Issue on Access to Technological and Financial Resources for SME innovation, vol. 12, no. 7/8, 830-848, (1996).
27. "Decision, irreversibility and flexibility: the irreversibility effect re-examined", with A. Richard, *Theory and Decision*, 35, 259-276, (1993).
28. "Une approche élargie de l'effet irréversibilité", with A. Richard et M. Trommetter, *Revue économique*, no. 4, juillet, 769-784, (1992).

### *Biotechnology*

29. "Bionetworks vs nanonetworks: A comparison of diffusion rates of emerging technologies" with Reid, S.E. and Niosi, J., *International Journal of Biotechnology*, Vol. 13, Nos. 1/2/3, 90-104,(2014).
30. "Biotech in post TRIPS India" with P. Pradhan and M.Ravi, *Nature Biotechnology*, Volume 23, no.1, 18-19, (Jan, 2005)
31. "Decoding the information on genetic variation" with Roger Coronini, Marie-Angèle de Looze, Pierre Puget, and Gérard Bley, *Nature BioTechnology*, volume 21, no. 1, 21-29, (Jan 2003).
32. "Using patent statistics as competition indicators in the biotechnology sectors: An Application to France, Germany and the U.K." with M. A. Delooze, *Scientometrics*, vol. 54, no. 3, 319-346, (2002).
33. "Biotechnology patents in the food sectors" with S. Malkoc, S.Murlis et K.van Wesemael, *Nature BioTechnology*, volume 19, no. 4, 383-384, (May, 2001).
34. "Rising to the technological challenge: Integration of biotechnology in the Indian Pharmaceutical Industry" with M. S. Venkataramani, *International Journal of Biotechnology*, vol. 3, no. 1/2, 95-115, (2001).
35. "Resources, performance and strategy: a statistical examination of the integration of biotechnology in the Indian pharmaceutical sector", with C. Putz, *International Journal of Biotechnology*, vol. 3, no.3/4, 374-390, (2001).
36. "Introduction to the special issue on biotechnology" *International Journal of Biotechnology* vol. 3, no. 1/2, 1-3, (2001).
37. "The role of resources and incentives in the integration of biotechnology in developing countries: An Indian case study" with Visalakshi, *International Journal of Biotechnology*, vol. 2, no. 4, 297-312, (2001).
38. "A note on using patent statistics to obtain competition indicators" with M. A. Delooze, *Scientometrics*, vol. 49, no. 3, 547-551 (2000).
39. "Biotechnology patent applications in Europe" with M. A. De Looze, *Nature BioTechnology*, volume 17, number 1, 83-86, January (1999).
40. "The French Evolution of Biotechnology", *Nature BioTechnology*, vol. 13, 757-759, (1995).

### **6.2. ARTICLES SUBMITTED TO PEER REVIEWED JOURNALS**

- 'Impact Experiences of Bt Cotton Adopters in India: Role of Technology Obsolescence, Ecology and the Farmer' with Ajay Thutupalli and Mhamed-Ali El-Aroui
- 'PPP in the context of deep poverty: case studies of rural sanitation in India' with Rushva Parihar

### 6.3. EDITED VOLUMES OF BOOKS

41. Edited volume – as Editor – on “Innovation in India: Combining Economic Growth with Inclusive Development” New Delhi, Cambridge University Press (July 14, 2014).
42. Edited Volume – as Editor – on “Nanotechnology and Development: What’s in it for Emerging Countries?” New Delhi, Cambridge University Press (July 14, 2014).

### 6.4. BOOK CHAPTERS

43. “Women Entrepreneurs in the Informal Economy: Is formalisation the only solution for business sustainability?” With Ajay Thutupalli, Tamas Medovarszki, Sutapa Chattopadhyay and Veena Ravichandran, In *Routeledge Handbook of Entrepreneurship in Developing countries, 2016*, Edited by Colin C. Williams and Anjula Gurtoo .

#### Chapters in the book on “Innovation in India” – see next section:

44. Innovation in India: The Challenge of Combining Economic Growth with Inclusive Development By Shyama V. Ramani and Adam Szirmai
45. The secret behind India’s success in pharmaceuticals: Seizing the right windows of opportunity By Shyama V. Ramani and Samira Guennif
46. Where is the toilet please? The sanitation sectoral innovation system in Rural India By Shyama V. Ramani and Shuan SadreGhazi
47. Conclusions on the evolution of the Indian NST By Shyama V. Ramani

#### Chapters in the book on “Nanotechnology and Development” – see next section:

48. Chapter 1: On nanoscience, nanotechnology and nanoproducts: Why everyone wants to join this game By Susan Reid, Roger Coronini and Shyama V. Ramani
49. Chapter 3: How is a regional technology cluster created? Insight from the construction of the nanotech cluster in Grenoble By Dominique Vinck and Shyama V. Ramani
50. Chapter 4: Co-patenting networks in nanotechnology: A comparison of South Korea and Germany By Ad Notten and Shyama V. Ramani
51. Chapter 8: On India’s plunge into Nanotechnology: What are good ways to catch-up? By Shyama V. Ramani, Nupur Chowdhury, Roger Coronini, and Susan Reid
52. Chapter 9: Nanotech after Biotech in Emerging economies: Déjà vu or a new form of catching up? By Shyama V. Ramani and Jorge Niosi
53. “Catching up in the Catching up in the pharmaceutical sector: Lessons from case studies of India and Brazil” with S. Guennif in Malerba F. and Nelson R. (editors), “Economic Development As a Learning Process: Variation Across Sectoral Systems”, Edward Elgar, 2012.
54. “Market disrupting product innovations and corporate social responsibility” with V. Mukherjee in “Corporate Social Responsibility: From Compliance to Opportunity? Edited by Patricia Crifo and Jean-Pierre Ponsard, Ecole Polytechnique Editions, 2010.
55. “Who’s interested in biotechnology: R&D strategies, knowledge base and market sales of Indian biopharmaceutical firms”.

\*Reprinted from *Research Policy* in: “*The Economics of Biotechnology*”, edited by Maureen McKelvey and Luigi Orsenigo- Edward Elgar Publishing Inc. 2006 [Part of the “*The International Library of Critical Writings in Economics*” Series Editor: Mark Blaug].

56. "The biotech segment of the Indian pharmaceutical industry in the brave new post-TRIPS world" with M. Ravi and P. Pradhan in the book "*Droit et Economie de la Propriete Intellectuelle*" edited by M. A. Frison-Roche and A. Abello, La Collection Droit et Economie, L.G.D.J. 185-201.(2005)
57. "Technology purchases and technology alliances in the Indian biotechnology sectors" with P. Audinet et M. ElAroui, in *L'Europe et le Sud à l'aube du XXIe siècle: enjeux et renouvellement de la coopération - Actes de la 9e Conférence générale de l'EADI*, Karthala, Paris, 2002.
58. "Biotechnology and the Indian Pharmaceutical Industry: Integration and Impact" with M. S. Venkataramani in "*China and India*" edited by S. Dzever and J. Jaussand, Macmillan Press Ltd, London, 1999, 181-207.
59. "The creation of European dedicated biotechnology firms" with P.P Saviotti, P.B.Joly, J.Estades and M.A.DeLooze in: J. Senker (ed) "*Biotechnology and Competitive Advantage: European firms and the US Challenge*", Edward Elgar, 1998, 68-88.
60. "What game theory has to say on R&D strategic alliances" in "*Management and New Technology: Design, Networks and Strategy*" edited by Donald Maclean, Paolo Saviotti and Dominick Vinck, COST (Social Sciences), EEC, Brussels, 1995, 213-239.

#### **6.5. PUBLICATIONS IN NEWSPAPERS, MAGAZINES AND INDUSTRY JOURNALS**

61. "Why it's easier for India to get to Mars than to tackle its toilet challenge" *The Conversation*, November 18, 2016
62. "If you must bash the 'Swachh Bharath Mission' – At least do it properly!" *Rupak*, Kolkotta, October 2015.
63. "Look who's building toilets! CSR in action" *IMI Konnect Winter Special Issue 2013* p.2-3
64. "La propriété intellectuelle : Un boulet pour les pays émergents", *Le Monde*, (March 15, 2005).
65. "Biotechnologies: l'Inde monte en puissance", *Biofutur*, 174, January 1998, 18-21.

#### **6.6. OTHER PUBLICATIONS**

66. "Women in the Informal Economy: Experiments in Governance from Emerging Countries" United Nations University, Policy Brief, No. 5, 2013.  
[http://www.merit.unu.edu/archive/docs/hl/201304\\_unu\\_pb\\_2013\\_5.pdf](http://www.merit.unu.edu/archive/docs/hl/201304_unu_pb_2013_5.pdf)
67. "Determinants of the prevalence of diarrhoea in adolescents attending school: A case study of an Indian village school with T. Frühauf, A. Dutta & H. Meijers, United Nations University, Working paper #2012-059, 2012.  
<http://www.merit.unu.edu/publications/wppdf/2012/wp2012-059.pdf>
68. "Economic Development in India: A Brief Outline of Theory, Policy and Progress -A personal view" eSS Occasional Papers, Vol. 1, No. 1, May-July 2008, 1-12.  
<http://www.esocialsciences.com/essJournals/essJournalIssuesMain.asp?jid=2&issue=Current>
69. "Commercializing an Innovation in an Invisible Market: Case of Ecosan toilets" with A.Benycar and A. Didier eSS Occasional Papers, Vol.1, No.1, May-July 2008, 77-90.  
<http://www.esocialsciences.com/essJournals/essJournalIssuesMain.asp?jid=2&issue=Current>
70. Book review: *Everyday Engineering: An Ethnography of Design and Innovation*, D. Vinck (Ed.) *Research Policy*, 36 (2007) 155–156.

71. “Creating Incentives: Lessons from the French experience”, *Biotechnology and Development Monitor*, No.26, 18-20, March (1996).

## 6.7. BLOGS

72. UNU-MERIT Blog Series, An Homage to John Nash: The Genius of Game Theory 26, May 2015 <http://www.merit.unu.edu/an-homage-to-john-nash-the-genius-of-game-theory/>
73. UNU-MERIT Blog Series Ending Open Defecation — Doing It Properly: SDG 6 17 September 2015 <http://www.merit.unu.edu/ending-open-defecation-doing-it-properly/> With Rushva Parihar

## 7. RESEARCH COORDINATION/LEADERSHIP

### 7.1. GRANTS OBTAINED

- (i) **Principal Investigator for UNU-MERIT** to work on the EU FP7 funded project entitled: “A Framework Model on MNE’s Impact on Global Development Challenges” (impact on access to medicines, sanitation coverage and food security) Grant Agreement No. 612889-2013-2016
- (ii) **Individual Research Grant:** To work on “The impact of water, sanitation, waste management and hygiene on incidence of diarrhoeal diseases” with Dr.Arijita Dutta of Caclutta University funded by the NWO (The Netherlands) and the ICSSR (India) 2012-2013.
- (iii) **Coordinator** of the economics axe of a research project funded by the ANR on on “Dynamics of Nanosciences and Nanotechnologies”. (2006-2009). Co-coordinator.
- (iv) **Coordinator** of a research project funded by the Region of Rhone-Alps on "Water and Territorial Management in India" under the programme ARCUS. 2005-2008. Co-coordinator.
- (v) **Coordinator** of a research project funded by INRA on “R&D cooperation: Le rôle des contrats”. 1999-2000.
- (vi) **Coordinator** of a research project funded by INRA on “Coopération en R&D entre firmes de pays industrialisés et de pays en voie de développement: Le rôle des contrats”. 1997-1999.
- (vii) **Coordinator** of a research project funded by INRA and the French Ministry of Agriculture and Fisheries on “Les stratégies des entreprises indiennes dans les secteurs des biotechnologies et les perspectives de collaboration with les entreprises et les laboratoires français” 1996 - 1998.
- (viii) **Coordinator** of a research project funded by FNEGE on “Les alliances stratégiques: une analyse théorique et empirique de la rationalité des joint ventures” 1992 – 1994.

### 7.2. ORGANIZATION OF CONFERENCES

- Pathways to SDG6: Macro to Micro Perspectives, New Delhi, November 19-20, 2016.
- Tracing Pathways to Clean Villages, Ahmedabad, India, November 15, 2016.
- Panel entitled: “Let’s get real! How do we walk the talk to make STI work for SDGs?” in First Annual Multi-stakeholder Forum on Science, Technology and Innovation for the Sustainable Development Goals, New York, 6-7 June, 2016.
- International workshop on “Access to Medicines” in the India International Centre, New Delhi, held on Friday July 30th, 2010
- International workshop on “Access to Medicines” in the India International Centre, New Delhi, held on Friday July 30th, 2010



- International workshop on “The Indian System of Innovation” in the India International Centre, New Delhi, held on Wednesday and Thursday July 28th –July 29th , 2010
- “Technology, Innovation and the attainment of the Millennium Development Goals in India”, Tiruchirapalli, India, July 2007.
- “Promotion of Entrepreneurship in Public Laboratories”, Bangalore, India, April 2004.
- “The Economics and Management of Innovation”, Grenoble, October, 2002.
- “Exploring the Possibilities for Franco-Indian Cooperation in Biotechnology”, Lyon, January 1998.

### **7.3. PH.D. AND OTHER SUPERVISION**

- Rushva Parihar (2015 - ) – CSR for SDGs
- Farida Lada (2010 - 2016 ) – Clinical Trials and Business Ethics
- Ajay Thutupulli (2010 - 2015) – Adoption of Bt Cotton in India.
- Eduardo Urias (2010 - 2015) – Access to Medicines in Brazil
- Samira Rousseliere (2002-2006) – Diffusion of Bt Cotton in India
- 29 Masters/M. Phil dissertations.

## **8. COMMUNICATIONS IN ACADEMIC CONFERENCES**

### **8.1. RECENT INVITED LECTURES**

- “Technological Change and Development”, at the conference on “Inclusive growth and innovation: contradictions vs. opportunities” organized by SPRU (Science Policy Research Unit), Brighton, May 1-2, 2013.
- “What are the drivers and challenges towards responsible innovation in nanotechnology in emerging countries?” at the conference on “Responsible Innovation in Nano Science and Engineering” TERI (The Energy and Resources Institute) March 23, 2013, New Delhi.
- “On the Delivery of Pro-Poor Innovations: The case of sanitation in rural India” on March 12, 2013 in EAWAG, Switzerland.
- “Exploring the Sources of Controversies in Technology Transitions: The case study of Indian Agriculture” on December 12, 2012, at the Max Planck Institute of Economics in Jena, Germany.
- “Innovating out of poverty, discrimination and segregation” with T. Fruhauf in the session on “Innovation, informality, and improved livelihoods: a new agenda for research” at Globelics, Nov 15-17<sup>th</sup> , 2011, Buenos Aires, Argentina.
- “On Co-creating wealth at the Base of the Pyramid: BoP 2.0 for big companies” at the Convergences Forum, May 2-3, 2011. Paris.
- “BT cotton in India: Exploring the heart of a controversy” at the DIME workshop, Jena, Germany, Feb 18-19, 2011.
- “Sustainability and impact challenges at the Base of the Pyramid” Organized by Ecole Polytechnique, ESSEC Business School and HEC in Paris February 8, 2011.
- “Technology, Innovation and Food Security” in Institut supérieur des sciences agronomiques, agroalimentaires, horticoles et du paysage, Angers, France; Dec 15, 2010.
- “Technology, Innovation and Inclusive Development”, in Sciences-Po, Paris, Oct 6, 2010.
- “Nanotech in India: Another case of the emperor’s new clothes?” Workshop on “States of Innovation: Research Policy and Practice After 10 Years of the National Nanotechnology Initiative “Lyon 28-30 April 2010.

## 8.2. RECENT INTERNATIONAL CONFERENCES (2008-2016)

- Academy of Management Conference: ‘Role of CSR in National Development’, with Rushva Parihar, Professional Development Workshop in Anaheim, California on 5 August 2016.
- 13th Globelics International Conference. Havana, Cuba. 23-25 September 2015; Urias, Eduardo; Ramani, Shyama V. (2015). Access to medicines: A scoping study on the challenges of the current IPR system.
- International Conference on Innovation for Inclusive Growth, organized by OECD and MEIDE 10-12 February, 2015, New Delhi, India “Impact Experiences of Bt Cotton Adopters in India: Role of Technology Obsolescence, Ecology and the Farmer” with A. Thutupalli and El-Aroui M.A.
- 12th Globelics International Conference. Addis Ababa, Ethiopia. 29.-31 October 2014; Urias, Eduardo; Ramani, Shyama V. (2014). The Brazilian experience on price negotiations for universal access to antiretrovirals drugs: a game theoretical explanation.
- 11th Globelics international conference (Globelics 2013), Sep 11-13, 2013, Ankara, Turkey. “Emergence of controversies in technology transitions: Green Revolution and Bt cotton in India” with A. Thutupalli.
- 6th Annual Conference of the Academy of Innovation and Entrepreneurship (AIE 2013), Aug 29-30, 2013, Oxford , UK. “Is GM cotton good for all or some farmers? A look into impact heterogeneity and micro behavior of cotton farmers in India” with A. Thutupalli.
- 11th Globelics international conference (Globelics 2013), Sep 11-13, 2013, Ankara, Turkey. “Emergence of controversies in technology transitions: Green Revolution and Bt cotton in India” with A. Thutupalli.
- Globelics, Buenos Aires, Argentina, Nov 15-17, 2011, “Can radical innovations help the poor (BoP) and create reputational (CSR) value?” with V. Mukherjee.
- Globelics, Kuala Lumpur, Malaysia, Nov 1-3, 2010. “On India’s plunge into Nanotechnology: What are good ways to catch-up?” with Nupur Chowdhury, Roger Coronini and Susan Reid.
- CEDIMES conference in Quebec Canada, Nov 8-10, 2010 on Development Models of Emerging countries: “The international diffusion of biotechnology in and out of India” with S. Reid.
- Ramani, S.V., “MDG: what, why and where with respect to India?” Plenary session, Globelics, Inclusive Growth, Innovation and Technological Change: education, social capital and sustainable development’ Dakar, Senegal, 6-8 October 2009.
- Ramani, S.V., “Catching up in the Pharmaceutical Sector: Case studies of India and Brazil” Special invited session, Globelics, Inclusive Growth, Innovation and Technological Change: education, social capital and sustainable development, Dakar, Senegal, 6-8 October 2009.
- IAMOT (International Association for Management of Technology) on “Taking Innovation to the poor: The case of toilets in rural India”; Orlando, Florida, April 6-8, 2009.
- Invited Speaker in EUROMOT conference (European Association of Management of Technology) in CERAM, Sophia Antipolis on “Technology Parks in India”, Sep 17-19, 2008.
- **Invited to deliver the ‘Annual Charles Cooper Memorial Lecture’ in March 2008 on “Playing in invisible markets: Innovations in toilets to harness the economic power of the poor” at UNU-Merit, Maastricht.**

## 8.3. INVITED LECTURES/PRESENTATIONS IN MULTI-STAKEHOLDER FORUMS

- “Policy Design and Incentive provisions for MNE to contribute to SDG1” with Rushva Parihar and Shankhajit Sen, Pathways to SDG6: Macro to Micro Perspectives, New Delhi, November 19-20, 2016.
- “Corporate capers: Seriously speaking, why and how firms ought to invest in sanitation; – even when it’s not their business” with Rushva Parihar, in Tracing Pathways to Clean Villages, Ahmedabad, India, November 15, 2016.
- “Simple as ABC – Art for Behavioural Change”, Pecha Kucha, September 6, 2016.
- “Let’s get real! How do we walk the talk to make STI work for SDGs?” in First Annual Multi-stakeholder Forum on Science, Technology and Innovation for the Sustainable Development Goals, New York, 6-7 June, 2016.
- “Why should it matter to firms – CSR investment in sanitation” in CSR Sanitation Summit with Rushva Parihar, Pune, 5 November 2015.
- “On Innovation in India and Opportunities for International Cooperation” The Austrian Institute for International Affairs (OIIP), Vienna, September 11, 2015.
- “Starting from the Bottom of the Pyramid” for a workshop on “Renewable Energy and Innovation towards Sustainable Energy for All” by WAME (World Access to Modern Energy) organized for the Milan Expo 2015 , June 17, 2015  
<http://www.expo2015.org/en/projects/wame---expo2015>
- “Climate Change and Poverty” - Presentation for the cycle of lectures on “Economists facing climate change” organized by the The Chaire Développement durable de Sciences Po, the Chaire Développement durable de l’École Polytechnique, the Alliance Program, and Columbia Global Center Paris. January 15, 2015.
- Invited speaker at TedxMaastricht to speak on strategies for improving sanitation coverage; Sep 2, 2013 Video: [http://www.youtube.com/watch?v=cjZiZVvK\\_kc](http://www.youtube.com/watch?v=cjZiZVvK_kc)
- Invited speaker at the forum “Convergences 2011” at the City Hall of Paris, May 3-5, 2011.
- Interview with BNP-ParisBas on “Women and innovation in India”, June 2011 for their celebration of 150 years in India.  
Video:  
<http://womenchangingindia.pourunmondequichange.com/2011/07/12/rencontre-avec-le-dr-shyama-v-ramani-elle-change-linde-par-la-recherche/>
- Invited speaker for the UNU channel on Technology and Social Innovations  
Video: <http://www.youtube.com/watch?v=CXXEETadOOg>
- Documentary film by ARTE for French television in 2009 on my work in sanitation coverage in the village of Kameshwaram in India as founder-director of Friend in Need.  
Video: [http://www.youtube.com/watch?v=6VfmY9Aq6tw&feature=em-share\\_video\\_user](http://www.youtube.com/watch?v=6VfmY9Aq6tw&feature=em-share_video_user)
- Interview to Biofutur on biotechnology in India “L’Inde a l’heure de l’innovation” Biofutur, January 2008, 54-57.
- Invited delegate, among 50 Indian women, to speak on “Women Entrepreneurs in India” for ‘The Women’s Forum’ in Deauville, France. (October 2008)
- Interview to France 24 on entry of retail giants in India, Dec 2007  
<http://www.france24.com/france24Public/en/archives/news/business/20071206-india-supermarkets-entry-reliance-carrefour-walmart-tesco-subhiksha.php>
- Invited by the 'Institut de relations internationales et stratégiques (Iris), « L’agriculture européenne à l’horizon 2013 » to speak on « Quelles conséquences pour le développement économiques des pays du Sud? » 11 December, 2007.
- Invited by the FIEC, Paris (Forum International Economique et Financiere) to speak on "Globalisation Strategies of Indian Pharmaceutical firms" 19 January, 2007, Paris.

- Invited by MOMA, (Mouvement pour une Organisation Mondiale de l'Agriculture) Paris, to be a panellist for the debate: « World Agriculture in search of a search of a strategy. How to reconcile liberalism with development? », The Senate, Paris, 19, October 2006.
- Invited by the Ministry of Economics, Finance and Industry in the “Centre de formation”, to speak on “R&D capabilities of emerging economies”, Paris, June 13, 2006.
- Invited by the ANRT, Paris (National Association of Technical Research) to speak on "R&D Strategies of Indian Pharmaceutical firms" 16 March, 2006, Paris
- Invited by the French embassy in New Delhi to speak at the Indo-French Workshop on “The economics of academic spin-offs”, Dec 10-12, 2004, Pune, India.
- Invited by the ANRT, Paris (National Association of Technical Research) to speak on "The biotech segment of the Indian pharmaceutical industry in the post-TRIPS world", 3 June, 2004, Paris.

## **9. PROVISION OF EXPERTISE**

### **9.1. REFEREEING FOR JOURNALS**

African Journal of Science, Technology, Innovation and Development (AJSTID), Economies et Sociétés, Economics of Innovation and New Technology, Economie Rurale, Industrial and Corporate Change, International Journal of Industrial Organization, International Journal of Biotechnology, Rationality and Society, Research Policy, Review of Political Economy, Southern Economic Journal, Structural Change and Economic Dynamics, Technology Analysis and Strategic Management, Theory and Decision, Technovation, Technology forecasting and social change, World Development.

### **9.2. REFEREEING FOR GRANT AWARDING BODIES**

Leverhulme Trust, EPSRC

### **9.3. EDITORIAL BOARD**

2011- present: On the editorial board of ‘The International Journal of Biotechnology’

### **9.4. REPORTS**

- Shyama V. Ramani, 2016, Public policies to promote sanitation coverage, a survey of the literature coupled with country case studies for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani, Rushva Parihar and Shankhajit Sen, 2016, On policy design and incentive provision for MNE's to contribute to SDG1 and SDG 9, for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani and Rushva Parihar, 2015, Linkages between sanitation, health and poverty reduction, for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani and Rushva Parihar, 2015, Report on the on the nature of constraints, challenges and returns from investment to the different stakeholders of the FINISH programme as a result of their innovative business model, for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889

- Shyama V. Ramani and Rushva Parihar, 2015, Report containing a blueprint for a sustainable delivery platform for the diffusion of safe toilets that can also provide for the inclusion of MNEs with positive long term reputational and business returns., for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani, Ajay Thutupalli, Eduardo Urias, Rushva Parihar, 2015, A validation of the framework of 1.1 of WP1 with a comprehensive survey of the literature that identifies and characterizes the strategies of MNEs in developing countries in the field of medicine, agriculture and sanitation, for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani, Ajay Thutupalli, Eduardo Urias, Rushva Parihar, 2015, A refinement of framework model of interlinkages of MNEs in emerging countries for measuring their contribution towards MDGs, for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Shyama V. Ramani, 2014, Methodology for data collection for studying the impact of sanitation on MDGs for “A Framework Model on MNE’s impact on global development challenges in emerging markets” EU FP7 funded project Grant agreement no: 612889
- Report for the OECD on “Patents and other intellectual Property rights: a comparison between Europe, Japan and the United States” directed by Paolo Saviotti, 2001.
- Report for the UNIDO and the Agricultural Ministry of France, on “Strategies of Indian firms in the biotechnology sectors” 1996.

#### **9.5. CONSULTING ON DEVELOPMENT AGENDA**

- February 11-12, 2013 - For WASTE, Netherlands, Advisors on Urban Environment and Development, I organized a conference on “Rising to the sanitation (or lack of!) Challenge, A call to create a supply side platform” - in New Delhi India
- 2012 – Consultant for IDRC International Development Research Centre Canada – On gender, innovation and entrepreneurship in developing countries
- 2011 – Consultant for IDRC International Development Research Centre Canada – On gender, innovation and entrepreneurship in developing countries.
- March 22-23, 2011 - For WASTE, Netherlands, Advisors on Urban Environment and Development, I organized a conference on “Social Responsibility when investing in Base of the pyramid markets” - in New Delhi India
- April 8-9, 2010 - For WASTE, Netherlands, Advisors on Urban Environment and Development, I organized a conference on “Challenges in improving sanitation coverage in India” - in Ooty India.
- Nov 1-2, 2009 - For WASTE, Netherlands, Advisors on Urban Environment and Development, I organized a conference on “The FINISH programme” – Financial Inclusion for Sanitation and Health - in Chennai India.

#### **9.6. MEMBER OF COMMISSIONS:**

- 2011-present: Scientific committee of MOMAGRI Paris - Movement for a world agricultural organization
- 2015-2011- present: Scientific committee of IDDRI Paris - Institute for Sustainable Development and International Relations (IDDRI)
- External Member of the Scientific Committee of CIRAD (2003)

- Member of Commission of Specialists of ENS (Ecole Normale Supérieure) Cachan (2001-2003).
- Member of the administrative committee of the Grenoble unit of INRA (Sept 1999-2002).

### **9.7. TRAINING WORKSHOPS:**

- Impact of Sanitation on Health – Logic of Survey Design and Method of Survey Implementation : for EU FP7 funded project, grant agreement no: 612889, 6 July - 10 July, 2015, Bharuch, Gujarat, India.
- Impact of Sanitation on Health – Logic of Survey Design and Method of Survey Implementation : for EU FP7 funded project, grant agreement no: 612889, 4 August - 8 August 2015, Aurangabad, Maharashtra, India.
- Impact of Sanitation on Health – Logic of Survey Design and Method of Survey Implementation : for EU FP7 funded project, grant agreement no: 612889, 22 November - 26 November 2015, Udaipur, Rajasthan, India.

## **10. RESEARCH CONTRIBUTION TO SOCIETY**

### **10.1. UN-AMI (FRANCE) AND FRIEND IN NEED (INDIA)**

- Created action-research unit “Un-Ami” (in France) and “Friend-in-Need” (FIN in India) created in the aftermath of the Tsunami of December 2004.
- Objectives:
  - Attainment of the millennium development goals in the isolated Indian coastal village of Kameshwaram through the introduction of innovations in the form of new structures, new technology and new management routines.
  - Provision of expertise to other agencies in India active in sanitation promotion via action-research projects.
- FIN has received students of economics from ESC-Grenoble, Ecole Normale Cachan, Sciences-Po Paris, l’Université de Franche Comté, UNU-MERIT and Bharathi Dasan University
- [www.friend-in-need.org](http://www.friend-in-need.org)

### **10.2. TECKNOWMETRIX**

- Co-founded a start-up “TecKnowMetrix” in 2004 at the suggestion of the EU commission. It was incubated in GRAIN, Rhone Alps with the support of the region.
- Its services are based on my publications in scientometrics. I worked during the initial year with the other co-founders to develop its first tools & services and returned thereafter to full time academics.
- [www.tkm.fr](http://www.tkm.fr)

### **10.3. DISTINCTIONS/AWARDS FOR SOCIETAL CONTRIBUTION**

- Recognized as one of the #100 Women Achievers of India in the category of ‘Hygiene and Sanitation’, as part of a contest organised by the Indian Ministry of Women and Child Development in partnership with Facebook.
- Awarded the “Terre de Femmes” Trophy by the Yves-Rocher Foundation and the Institut de France in March, 2008 for the work of Un-Ami & Friend in Need.
- Invited delegate to ‘The Women’s Forum’, to speak on “Women Entrepreneurs in India”, October 2008, Deauville, France.

- Invited to deliver the ‘Annual Charles Cooper Memorial Lecture’ in March 2008 on “Playing in invisible markets: Innovations in toilets to harness the economic power of the poor” at UNU-Merit, Maastricht.
- Awarded the honorary title of ‘Conseilleur Scientifique’ in 2003 under the Allègre law of 1999 for co-founding the economics consultancy firm “TecKnowMetrix” in Lyon based on my publications in ‘Scientometrics’.

## **11. PERSONAL DETAILS**

- Female, Born on 12 February, 1960 in Tiruchirapalli, India.
- Indian Citizen, Married, Two children.
- Resident in France since 1989.
- Language skills: English (excellent writing, speaking and reading skills); French, Tamil and Hindi (good speaking and reading skills).
- Contact: +33 6 08 80 33 83.