

RAJESH KASTURIRANGAN

National Institute of Advanced Studies
Indian Institute of Science Campus
Bangalore, India 560 012
Phone: 91-80-22185148
rkasturi@nias.iisc.ernet.in

Employment

2009-Present: Anchor, Cognition Programme, National Institute of Advanced Studies, Bangalore

2006- Present: Associate Professor, National Institute of Advanced Studies, Bangalore

2005-2006: Research Scientist, Department of Brain and Cognitive Science, Massachusetts Institute of Technology

Education

Ph.D. **Cognitive Science** (2004)
Department of Brain and Cognitive Science
Massachusetts Institute of Technology

Dissertation Title: Mapping Spatial Relations

Ph.D. **Mathematics** (1998)
Department of Mathematics
University of Wisconsin-Madison

Dissertation Title: The Floer Homology of Eilenberg-Steenrod Operations

MSc **Mathematics** (1993)
Indian Institute of Technology, Kanpur

Publications by year

Karmakar, S. & Kasturirangan, R. (2010). Cognitive Processes underlying the Meaning of Complex Predicates. To Appear in the Proceedings of the first International Conference on Intelligent Interactive Technologies and Multimedia.

Kasturirangan, R. Guha, N. & Ram-Prasad, C. (2010). Indian Cognitivism and the Phenomenology of Conceptualization. To appear in Phenomenology and the Cognitive Sciences.

Karmakar, S. & Kasturirangan, R. (2010). Perspectiving Space in Bāṅlā discourse. To appear in the Proceedings of the 32nd Annual Conference of the Cognitive Science Society.

Das, R., Kasturirangan, R. & Sinha, A. (2010). "Acha": A case study of the perlocutionary force of gestures in Bengali." To appear in Proceedings of the 4th Conference of the International Society of Gesture Studies, Frankfurt, Germany.

Ghuman, S., Kasturirangan, R. and Sinha, A. (2010). True Lies! Patterns of Generalization in Tactical Deception by Wild Bonnet macaques *Macaca radiata*. To appear in Proceedings of the International Primatological Society Congress, 2010.

RAJESH KASTURIRANGAN

Gal, K., Kasturirangan, R., Pfeffer, A. & Richards, W. (2009). A Model of Tacit Knowledge and Action. Proceedings IEEE CSE'09, 12th IEEE International Conference on Computational Science and Engineering, August 29-31, 2009, Vancouver, BC, Canada.

Broniatowski, D & Kasturirangan, R. (2009). A Graph Theoretic Analysis of Hindu and Jewish Contemplative Traditions. Workshop on Modelling Intercultural Collaboration and Negotiation. Pittsburgh, USA.

Kasturirangan, R. (2009). Cell Biology, Like Physics, Has Logic. Nature India.

Kasturirangan, R. (2008). Thinking is Believing. Progress in Brain Research, Volume 168.

Kasturirangan, R. & Poston, T. (2008). The Experience of Mathematics. 4th APCAP Conference, NIAS Bangalore.

Gal, K., Kasturirangan, R., Pfeffer, A. & Richards, W. (2008). How Tacit Knowledge Guides Action. AAAI Workshop on Naturally Inspired Artificial Intelligence.

Kasturirangan, R. (2007). Consciousness across Cultures. Philosophy East and West 57(4).

Kasturirangan, R. (2007). Pointing with Concepts. Workshop on Interaction and Cognition, University of Technology, Compiègne, France.

Kasturirangan, R. (2006). Thinking is Believing. International Conference on Brain and Mind, Saha Institute of Nuclear Physics, Kolkata.

Kasturirangan, R. (2005). Spatial Structures in Natural Language. In, Proceedings of the International Workshop on Spatial Issues in Language and Vision, IIT-Kanpur, India.

Kasturirangan, R. (2004). An Ecological Approach to Vision and Language. In L. Carlson & E. van der Zee eds. Functional features in language and space: Insights from perception, categorization and development. Oxford University Press.

Kasturirangan, R., & Kumar, V. (2003). Nonduality in Perception: A Computational Perspective. Evam (3).

Kasturirangan, R., & Oh, Y-G. (2001). Floer Homology of Open Sets and a Relative Version of Arnolds Conjecture. Mathematische Zeitschrift. 236 (1).

Technical Reports

Kasturirangan, R. & Raghavan, S. (2009). Tacit Beliefs and Entrenched Narratives: A Cognitive Study of India-Pakistan Relations. NIAS Report.

Kumar, V., Kasturirangan, R. & Poggio, T. 2002. Estimating Pose by Direct Estimation of the Parameters of a Line Drawing Morphable Model. Center for Biological and Computational Learning Paper. Center for Biological and Computational Learning, MIT.

Kasturirangan, R. 2006. The Pragmatics of Beliefs. MURI Report, MIT.

Kasturirangan, R. 1999. Multiple Scales in Small-World Networks. *Artificial Intelligence Memo* (1663), Artificial Intelligence Laboratory, MIT.

RAJESH KASTURIRANGAN

Invited Lectures in International Conferences/ Workshops

November 2010. Mind and Life XXII, The Scientific Study of Contemplative Practice on Human Biology and Behaviour.

October 2010. A Feeling for the Truth. International Conference on Consciousness, Experience and Creativity, IIT Gandhinagar.

January 2010. Conceptualization: The Anatomy of a 'Sense'-Organ: International Conference on "From Experience to Thought: Debates in Consciousness, Cognition and Agency," JNU, Delhi.

February, 2009. "Tacit Belief and Appropriate Action": 1st Young Investigators in the Life Sciences Meeting. Poovar, Kerala.

April 2009. "Beliefs, Signals and Informal Networks": *Annual Workshop of the Multiple University Research Initiative on Modeling Social Networks*, Massachusetts Institute of Technology. Cambridge, MA.

December 2008. "The Experience of Mathematics": 4th APCAP Conference, NIAS Bangalore.

April 2008. "How Tacit Knowledge Guides Action": *Annual Workshop of the Multiple University Research Initiative on Modeling Social Networks*, Massachusetts Institute of Technology. Cambridge, MA.

April 2007. Mind and Life XIV, *Conference on "The Universe in a Single Atom"* between the Dalai Lama and Scientists. Dharamsala, India.

February 2007. Department of Philosophy, University of Hyderabad. Three lectures on "Cognition, Computation and Consciousness." Hyderabad, India.

January 2007. "Pointing with Concepts". *Workshop on Interaction and Cognition*, University of Technology. Compiègne, France.

December 2006. "Grounding Language in Perception". *Microsoft Research Conference on Computer Vision*. Bangalore, India.

November 2006. "Thinking is Believing". *Conference on Brain and Mind*, Saha Institute of Nuclear Physics. Kolkata, India.

Institutional Responsibilities

Coordinator, National Cognitive Science Initiative, Department of Science and Technology, India.

Coordinator, PhD Programme, National Institute of Advanced Studies.

Anchor, Cognition Programme, National Institute of Advanced Studies.

Conferences and Summer Schools Organised

November 2010. Workshop on the Ayodhya Judgment (Co-organised with Sudhir Krishnaswamy). NIAS Bangalore.

RAJESH KASTURIRANGAN

July 2010. First NIAS Summer school in the Mind and Behavioural Sciences. NIAS, Bangalore.

June 2010. Workshop on Self, Location and Emotion (Co-organised with Arindam Chakrabarti). NIAS, Bangalore.

February 2010. Workshop on Structure and its Discontents (Co-organised with Carol Upadhya). NIAS, Bangalore.

September 2007. Workshop on Ego, Embodiment and the Sensory-motor System (Co-organised with Sundar Sarukkai and Arindam Chakrabarti). NIAS Bangalore.

Online Resources Created and Managed

Chief Editor, The Distributed Mind, www.distributedmind.org, an online resource for the mind sciences.

Fellowships and Awards

Visiting Scholar, School of Interdisciplinary Studies, Institute For Advanced Study, Princeton 2003-2004.

Copeland Fellowship, Amherst College Academic year 2004-2005.

Burnett Foundation Doctoral Dissertation Fellowship 1999-2000 and 2000-2001 academic years. Massachusetts Institute of Technology

National Board for Higher Mathematics Award (India), 1992-1993.

Master's Thesis Award, Department of Mathematics, Indian Institute of Technology, 1993.

Teaching Experience

Instructor: Reason, Emotions and Ethics, National Institute of Advanced Studies, 1st semester 2010 (current).

Instructor: Cognitive Linguistics, National Institute of Advanced Studies, 1st semester 2009 and 2010 (current).

Coordinator: Foundations Course. National Institute of Advanced Studies. 1st semester 2009.

Instructor: Embodied Cognition, National Institute of Advanced Studies, 1st semester 2006.

Co-Instructor: Department of Brain and Cognitive Science, Massachusetts Institute of Technology. Co-organized and taught Graduate Seminar, *Cognitive Artifacts and Architectures*. Fall 2003

Teaching Assistant: Department of Brain and Cognitive Science, Massachusetts Institute of Technology, Social Psychology. Spring 2003

Teaching Assistant: Department of Brain and Cognitive Science, Massachusetts Institute of Technology, Introduction to Psychology. Fall 1999

Teaching Assistant: Department of Mathematics, University of Wisconsin-Madison, Planned and taught sections for Calculus I, II, III, Algebra I, and Combinatorics. 1993-1998 academic years.

RAJESH KASTURIRANGAN

Extra-Curricular Activities

2007-Present: Editorial Columnist, India Together, an online newsmagazine.

2000-2006, Cofounder and President: South Asian Center (SAC), Boston, MA. Established SAC, a locally-based non-profit organization which seeks to bring together South Asians of all religions and nationalities. Organized Peace Initiatives between Indians and Pakistani's living in the U.S., conducted seminars on South Asian Culture and Philosophy, coordinated conferences on human rights in South Asia and Hindu-Muslim relations in India.

1999-2002, President: Asha-MIT. Together with other Asha leaders, coordinated Asha volunteer activities, oversaw fundraising campaigns taking in over \$50,000 annually, managed small grants programs, liaised with Indian NGOs to support Primary Education in India.

Languages

Tamil: Mother tongue

English: Native proficiency

Hindi: Native proficiency