



## Curriculum Vitae Prof. Dr. Raghavendra Gadagkar



**Name:** Raghavendra Gadagkar

**Born:** 28 June 1953

### **Main areas of research: Biodiversity, evolution of insects, social behaviour of wasps**

Raghavendra Gadagkar is an Indian zoologist who researches biodiversity and the evolution of insects. His work involving the origin and evolution of social behaviour in wasps is ground-breaking.

### **Academical and Professional Career**

- 2018 - 2023 Honorary Professor at the Indian Institute of Science, India
- 2017 - 2022 Year of Science Chair Professorship, Department of Science and Technology, India
- 2015 - 2017 Visiting Professor at the Central University of Punjab, India
- 2013 - 2016 Honorary Professor at the Indian Institute of Science Education & Research (IISER), Mohali,
- 2010 - 2015 Honorary Professor at the Indian Institute of Science Education & Research (IISER), Kolkata, India
- 2010 - 2014 INSA S.N. Bose Research Professorship
- 2006 - 2010 Adjunct Professor at the Indian Institute of Science Education & Research (IISER), Kolkata
- 1998 - 2019 Honorary Professor at the Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur Campus, India
- since 1997 Professor at the Centre for Ecological Sciences, Indian Institute of Science, India
- 1992 - 2002 Chair of the Centre for Ecological Sciences, Indian Institute of Science
- 1991 - 1997 Lecturer at the Centre for Ecological Sciences, Indian Institute of Science
- since 1987 Associate Member, Centre for Theoretical Studies, Indian Institute of Science

1987 - 1991	Assistant Professor, Centre for Ecological Sciences, Indian Institute of Science
1983 - 1984	Senior Research Fellow at the Centre for Theoretical Studies, Indian Institute of Science
1982	Visiting scientist at the Department of Entomology, University of Kansas, Lawrence, USA
1980 - 1981	Short-term Research Fellow at the Smithsonian Tropical Research Institute, Panama
1979	PhD at the Indian Institute of Science, Bangalore, India
1974	Master of Science in zoology at the Bangalore University, India
1972	Bachelor of Science in zoology at the Bangalore University, India

### **Functions in Scientific Societies and Committees**

2014 - 2016	President of the Indian National Science Academy (INSA)
2007 - 2010	Vice President of the Entomology Academy of India, Chennai, India
2004 - 2018	Chair of the Centre for Contemporary Studies, Indian Institute of Science
2003 - 2005	Vice President of the Indian National Science Academy (INSA)

### **Project coordination, Membership in collaborative research projects**

2005	Member of the Indian Delegation of the Inter-Academy Panel Shanghai and the International Council for Science in Suzhou, China
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### **Honours and Awarded Memberships**

2021	Distinguished Animal Behaviorist, for Outstanding Lifetime Achievement in Animal Behaviorist, Animal Behavior Society, Glenview, USA
2017	Foreign Honorary Member, American Academy of Arts & Sciences, Cambridge, USA
2016	Visiting Research Scholar, University of Exeter, UK
2015	Cross of the Order of Merit of the Federal Republic of Germany
2015	Honorary doctorate of the University of Burdwan, West Bengal, India
2014	A.V. Rama Rao Technology Prize of the CSIR-Indian Institute of Chemical Technology, Hyderabad, India
2014	Prof. N. Appaji Rao Best Mentor Prize, Indian Institute of Science Alumni Association
2011	Sir M. Visvesvaraya Senior Scientist's state award, Government of Karnataka, India
since 2012	Member of the German National Academy of Sciences Leopoldina
2010	Millennium Medal, Indian Science Congress Association, Kolkata, India

2008	H K Firodia award for excellence in Science & Technology
2007	Elected Foundation Fellow of the Entomology Academy of India, Chennai
2007	Jawaharlal Nehru Birth Centenary Visiting Fellowship der Indian National Science Academy
since 2006	Elected Foreign Associate, National Academy of Sciences, USA
2006 - 2016	JC Bose National Fellowship, Department of Science & Technology, Government of India
2005	Prof. U.S. Srivastava Memorial Lecture of the National Academy of Sciences, India
2004	Prof. Rustum Choksi award for Excellence in Research for Science
2002	VASVIK Award for Contribution to Environmental Sciences & Technology
2002	Swami Pranavananda Saraswathi Award for Environmental Sciences and Ecology
2003	Visiting Fellowship of the University of Pretoria, South Africa
2002 - 2022	Non-Resident Permanent Fellow, "Wissenschaftskolleg zu Berlin", Germany
since 2001	Elected Fellow of the Third World Academy of Sciences
2001 - 2002	Guest of the Rector, "Wissenschaftskolleg zu Berlin", Germany
2000 - 2001	Schering-Fellow at the "Wissenschaftskolleg zu Berlin", Germany
1999	Award of the Third World Academy of Sciences in Biology
since 1998	Elected Fellow of the Indian Academy of Entomology
since 1995	Elected Fellow of the National Academy of Sciences, India
since 1993	Elected Fellow of the Indian National Science Academy
1993	Shanti Swarup Bhatnagar Prize in Biology
1992 - 1994	Homi Bhabha Fellowship
1991	B.M. Birla Science Award in Biology
1991	Professor T.N. Ananthakrishnan Prize
since 1990	Elected Fellow of the Indian Academy of Sciences
1990	Saraswathi Narayanan-Prize for Biological Sciences
1987	Certificate of Appreciation, Lion's Club International, Bangalore, India
1985	Medal for Young Scientists, Indian National Science Academy
1984	Award for Young Scientists in Biological Sciences, Karnataka Association for the Advancement of Science
1984	Young Associate of the Indian Academy of Sciences
1982	Dr. A. Krishna Murthy Award for the best publication, Society of Biological Chemists

**Major Scientific Interests**

Raghavendra Gadagkar is considered one of the most important researchers in the field of biodiversity. He is thereby not concerned with just taking stock of the existing species on the planet, but rather in what way the enormous diversity of species and their corresponding behaviours and survival strategies might develop on the earth. Gadagkar was able to produce groundbreaking insights into the social behaviour of insects, particularly with regard to wasps. He investigated under what conditions altruistic behaviour by the insects was beneficial and at what times it was better for them to meet life's challenges on their own. His findings led to the development of his "assured fitness return" theory, which states that social behaviour under special conditions - such as, for example, under the strain caused by raiders – can lead to increased reproduction successes.

In addition, he is actively engaged in the exchange of scientific knowledge – both internationally and interdisciplinarily. He was the President of the Indian National Science Academy and founder of the Centre for Contemporary Studies, the goal of which is the creation of a platform for forging meaningful interaction between the natural sciences and the human sciences. In 2015 he received The Order of Merit of the Federal Republic of Germany for his commitment to this project.