



## Prof. Sanghamitra Bandyopadhyay Padma Shri

One of the pre-eminent computational biologists of the country, Prof. Sanghamitra Bandyopadhyay, is presently the Director of the Indian Statistical Institute. She is also a member of the Prime Minister's Science Technology and Innovation Advisory Council (PM-STIAC) since 2018. A pioneering researcher on how algorithmic optimization impacts biological data analysis, she is credited with discovering a genetic marker for breast cancer, the simultaneity of the occurrence of HIV and cancer and the role played by white matter in Alzheimer's disease.

Prof. Bandyopadhyay started her higher education with a B. Sc. (Physics Hons.) from the Presidency College, Kolkata (then Calcutta). Later, she completed her B. Tech., M. Tech. and Ph. D. in Computer Science and allied fields from the University of Calcutta, Indian Institute of Technology, Kharagpur and the Indian Statistical Institute, Kolkata, respectively. Her professional career started as a lecturer at the Indian Statistical Institute, Kolkata, in 1999. Her areas of research interest include Bioinformatics and Computational Biology, Computational Intelligence, Pattern Recognition, Data Mining, and Multiobjective Optimization. She also held the positions of a researcher and faculty member with various foreign academic institutes.

Author of more than 300 research papers, book chapters, and conference proceedings, she also has the credit of authoring several monographs, editing books and co-editing conference proceedings. She also has a patent on data retrieval and knowledge mining. As part of her academic contributions, she holds the editorial positions of several journals and book series and co-edited special issues of several journals. Apart from that, she also delivered several plenary, keynote, and invited lectures worldwide. She supervised the research works of several students who are now well placed in various important academic institutes in the country. She also offers administrative and professional services to various committees and institutes as a member of those august bodies.

An academic luminary as she is, rewards and recognition for her research and academic activities followed naturally. Of the numerous such rewards, mention may be made of TWAS Prize in Engineering Sciences (2018), Infosys Award in Engineering and Computer Science (2017), J. C. Bose Fellowship (2017), Shanti Swarup Bhatnagar Prize (2010), Alexander von Humboldt Fellowship for Experienced Researchers (2009-2010), Swarnajayanti Fellowship (2006-2007),

Silver Jubilee Young Engineers Award, Indian National Academy of Engineering (2012), National Women Bioscientist Award (Young) (2012), Young Engineers Award, Computer Science and Engineering, Indian National Academy of Engineering (2002), Young Scientist Medal, Indian National Science Academy (2000) etc. She is also a fellow of The World Academy of Science (TWAS), Institution for Electrical and Electronic Engineers (IEEE), Indian National Science Academy (INSA), National Academy of Sciences, India (NASI), Indian National Academy of Engineering (INAE), Institution of Electronics and Telecommunications Engineers (IETE), and West Bengal Academy of Science and Technology.

The government of India conferred the Padma Shri award on her in 2022 in recognition of her contributions to machine intelligence.

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