

Madhusudan Paul

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DATE OF BIRTH	6 July 1985	
RESEARCH INTERESTS	Computational Systems Biology, Complex Networks, Machine Learning	
FORMAL EDUCATION	Ph.D. in Computer Science & Engineering, 2020 IIT Guwahati, Guwahati - 781039, Assam, India Dissertation Title: “Overlapping Community Detection and Filtration of Low-Confidence Protein Interactions towards Protein Complex Identification from PPI Networks”	
	M.Tech. in Computer Science & Engineering, 2010 Pondicherry University, Pondicherry - 605014, India Dissertation Title: “Neural Networks for Graph Processing”	
	PG Diploma in Statistical & Research Methods, 2010 (Two-semester add on Evening Course) Pondicherry University, Pondicherry - 605014, India	
	M.Sc. in Computer Science, 2008 Visva-Bharati, Santiniketan - 731235, West Bengal, India Dissertation Title: “A 2-Approximation Algorithm for Interval Cut Problem”	
	B.Sc. (Hons.) in Computer Science, 2006 University of Calcutta, Kolkata - 700073, West Bengal, India Acharya Prafulla Chandra College, New Barrackpore, Kolkata - 700131 Dissertation Title: “RDBMS for a Pharmaceutical House”	
	Higher Secondary (10+2), 2003 West Bengal Council of Higher Secondary Education (WBCHSE) Rajballavpur High School, Maslandapur, North 24 Parganas, PIN - 743289	
	Secondary (10), 2001 West Bengal Board of Secondary Education (WBBSE) Rajballavpur High School, Maslandapur, North 24 Parganas, PIN - 743289	
HONORS AND AWARDS	UGC-NET (JRF) in Computer Science & Applications, June 2012 GATE in Computer Science & Information Technology, 2011 IIT Guwahati Institute Fellowship for JRF, December 2010 - December 2012 Visva-Bharati Merit Scholarship, 2007 - 2008	
ACADEMIC EXPERIENCE	Department of Computer & System Sciences, Visva-Bharati University, Santiniketan - 731235, West Bengal, India <i>Assistant Professor</i> 8 January 2013 - present	

SELECTED
PUBLICATIONS

M. Paul and A. Anand, “A new family of similarity measures for scoring confidence of protein interactions using Gene Ontology,” *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2021, doi: <https://doi.org/10.1109/TCBB.2021.3083150>, (In Press). **(SCIE)**

M. Paul and A. Anand, “Impact of low-confidence interactions on computational identification of protein complexes,” *Journal of Bioinformatics and Computational Biology*, vol. 18, no. 04, pp. 2050025(1)–2050025(16), 2020. **(SCIE)**

M. Paul, A. Anand, and S. Pyne, “Impact of the Continuous Evolution of Gene Ontology on Similarity Measures,” *Lecture Notes in Computer Science (LNCS)*, vol. 11942, pp. 122–129, Springer, 2019.

M. Paul, R. Anand, and A. Anand, “Detection of highly overlapping communities in complex networks,” *Journal of Medical Imaging and Health Informatics*, vol. 5, no. 5, pp. 1099–1103, 2015. **(SCIE)**