Jyotirmoy Das

Ph.D. (Tech.) in Bioinformatics

Postdoctoral Researcher

Address

Prästbolsgatan 40B 587 33, Linköping, Sweden

Experience

2017 - Now

Tel & Skype +46 (0)76-136 96 45 **S**jyotirmoy82 Designing and developing computational pipeline to study genome-wide methylomics, transcriptomics pattern obtained from clinical samples analyzed by different Illumina platforms using R in CLI and GUI-based linux platform.

Mail jyotirmoy.das@ liu.se jyotirmoy21@

gmail.com

2014 - 2017 **Senior Research Fellow** DST-INSPIRE (Govt. of India), Bose Institute, India Part of PhD program.

2012 - 2014 Junior Research Fellow Part of PhD program.

DST-INSPIRE (Govt. of India), Bose Institute, India Learn programming in MATLAB® and work with protein structure and dynamics. Use R to study the co-expression gene network.

DST-INSPIRE (Govt. of India), Bose Institute, India

Linköping University, Sweden

Web & Git jyotirmoy21.ucraft.net github.com/JD2112

2009 - 2010 **Research Trainee** National Institute of Plant Genome Research, New Delhi, India Develop new DNA markers (Intron Length Polymorphism) using Setaria italica genome.

Programming

Education

R **** Perl **** Python ★★★★★ Shell **** C/C++ **** HTML ★★★★★ Markdown ★★★★ Others ****

2012 - 2017 PhD (Tech) Degree in Bioinformatics Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly known as West Bengal University of Technology), India Molecular Evolution and MicroRNAs.

Main subjects: Molecular Evolution, MicroRNAs, Comutational Biology, Human Diseases.

Title of the Thesis: "In-silico studies of MicroRNA Regulations in higher eukaryotes from the perspective of Molecular Evolution" (PDF Link). Supervisor: Prof. Tapash C Ghosh, Bose Institute, India.

OS Handling GNU/Linux ★★★★★ Unix ★★★★★ MacOS ★★★★★ HPC **** Windows ★★★★★

2008 - 2010 Master of Technology in Biotechnology West Bengal University of Technology, India

Main subject: Biotechnology.

Title of the Thesis: "Identification and evaluation of Intron Length Polymorphism (ILP) marker in Foxtail millet (Setaria italica) and to study evolutionary relationship between species by cross-species transferability".

Supervisors: Dr. Manoj Prasad, NIPGR, India.

Prof. Nandan Bhattacharyya, Haldia Institute of Technology, India

2006 - 2008 Master of Science in Biotechnology

Bangalore University, Karnataka, India

Main subject: Biotechnology.

2003 - 2006

Bachelor of Science in Biotechnology University of Kalyani, West Bengal, India Main subjects: Biotechnology, Chemistry and Computer Application. Project 1: "Drug Designing: Evaluation of iron chelation through blood in

phytic acid treated thalassemia patients". Project 2: "Study of Ecological Diversity in Sunderbans, Especially on King-

Supervisors: Prof. Amit Chakravorty, IGE, India.

Dr. Sudipa Chakravorty, IGE, India





Invited Certifications

ICVICVVCI
Genes & Genomics [1]
Cancer Mangement
and Research [2]
Journal of
Biomolecular Structure
& Dynamics [1]
MDPI journals

2020	Research Supervision Linköping University Pedagogy Cours	se	
2019	Becoming a Teacher in Higher Education Linköping University Pedagogy Cours	se	
2015	Astrobiology and the Search for Extraterrestrial Life Coursera e-learning The origin and evolution of life and the search for life beyond the Earth. (Link to Certificate)		
2015	Programming for Everybody (Getting Started with Python) Course	ra	

e-learning

Building a Python fundamental. (Link to Certificate)

Supervision **Main Supervisor:**

Master students [2]

Publications

2020

2019

2018

2014

2011

Co-supervisor: Master student [1], PhD student [1] Das J, Idh N, Pehrson I, Paues J, Lerm M manuscript prepared A DNA methylome biosignature in immune cells recovered from induced sputum from TB-exposed individuals predicts exposure to mycobacteria across multiple cell types

Collaborations

Internal

Dr. Mika Gustafsson. Bioinformatics, LiU [One Article] Das J, Verma D, Gustafsson M, Lerm M IF: 5.171: Citations: 1 Identification of DNA methylation patterns predisposing for an efficient response to BCG vaccination in healthy BCG-naïve subjects Epigenetics, Vol 14, Issue 6, 589 - 601

https://doi.org/10.1080/15592294.2019.1603963

Dr. Deepti Verma, Cell Biology, LiU [One Manuscript] **Ghosh TC** IF: 3.681 : Citations: 4 Exploring the major cross-talking edges of competitive endogenous RNA networks in human Chronic and Acute Myeloid Leukemia

Sen K, Bhattacharyya D, Sarkar A, Das J, Maji N, Basu M, Ghosh Z,

Biochim Biophys Acta, Gen Subj, 1862 (9): 1883 – 1892 https://doi.org/10.1080/15592294.2019.1603963

Instruments

Pyrosequencer MD96 ThermalCycler IncuCyte®

Personal Skills

Das J, Podder S, Ghosh TC

IF: 3.986; Citations: 28

Insights into the miRNA regulations in human disease genes.

BMC Genomics, 15:1010.

https://doi.org/10.1186/ 1471-2164-15-1010

2013 Das J, Chakraborty S, Podder S, Ghosh TC IF: 3.805; Citations: 7 Complex-forming proteins escape the robust regulations of miRNA in

Human.

FEBS Lett 587(14):2284-7.

https://doi.org/10.1016/j.febslet.2013.05.062

Active Listening Organize Adaptability Problem solving Manage Curiosity Initiatve

Gupta S, Kumari K, Das J, ..., Prasad M IF: 2.152: Citations: 43 Development and utilization of novel intron length polymorphic markers in foxtail millet (Setaria italica (L.) P. Beauv.).

Genome 54(7): 586-602.

https://doi.org/10.1139/g11-020

Professional community	Fellows	ship & Awards
Connecting Research and Researchers	2019	Travel grant award Hjärt-Lungfonden Heart-Lung Foundation travel grant award to attend 4th International Conference on Innate Immune Memory, Nijemegen, the Netherlands.
	2012	Research grant award Department of Science & Technology, Govt of India DST-Inspire fellowhip award by Govt. of India to pursue PhD degree program.
Google	2010	Institute Scholarship National Scholarship awarded to pursue PhD program by Bose Institute, Kolkata - an autonomous body undertaken by Govt of India.
publons	2010	University Gold Medal West Bengal University of Technology Awarded University Gold Medal for the topper of the batch, M.Tech (BT), 2010.
R^{G}	2008	Graduate Aptitude Test in Engineering Development, GOI Successfully scored rank where the sucess rate is 12-15%. Ministry of Human Resources 12-15%.
in	2019	Organize 3 weeks R workshop for PhD students Organize the R fundamental workshop for the PhD students (total 18 participants) to understand the data analysis, mangement, statistical analysis and graphical representation of multi-variate data in R in 3 weekly sessions. The workshop is supported by Forum Scientium, LiU
Languages English ***** Hindi ****	2018	Live imaging of intracellular infections, NDPIA workshop University Mentoring and co-working with a group of students at NDPIA one week's workshop at Department of Clinical and Experimental Medicine.
Bengali **** Swedish ***	2019	Expert reviewer Expert reviewer of one International Master's Program in Medical and Experimental Neurosicence.
Research Interests Functional Genomics	2018-19	Mentoring two masters' projects on Bioinformatics Linköping University Co-working with Prof. Maria Lerm to guide two master's theses on the bioinformatics part with DNA methylation analysis in R and fundamental of Linux.
Genome Assembly Sequence Analysis	2018	Mentoring one master's project on Image analyses Linköping University

Co-working with Prof Maria Lerm to guide one master's thesis with image

One semester Bioinformatics course curriculum design, deliver lectures and

analysis and statistical calculations with live imaging techniques.

set examination for a group of masters (microbiology) students.

Course design, teaching and examinar

Sequence Analysis

Big Data Analysis

Cloud Computing

Cluster Computing

Epigenetics

2015

Bidhannagar Govt College, WB, India

Hobbies Poster & Oral presentation

Philately Sketch Numismatics
Chess Painting.
Trekking Photography

2019	Poster presentation - 4th International Co Memory poster presented at the international confere	Radbound University, the Netherlands
2019	Oral presentation - Machine Learning and Demonstrating the Machine Learning approagentics among a group of undergraduate englicipants) from Purdue University, USA	ach towards the big data of epi-
2019	Short oral presentation Short oral presentation to market own resear fection and Inflammation Center. best presenter award	MIIC, Linköping University rch, organized by Mucosal In-
2018	Oral presentation -Advanced Image analysis workshop.	, ,

2018 **Poster presentation - IKE Day**Poster presentation at the annual IKE day seminar.

Linköping University

2018 **Poster presentation - Tuberculosis research seminar** Karolinska Institute,

Stockholm

Poster presentation at the tuberculosis research seminar.

Referees

Referee 1 Prof. Maria Lerm,

Professor of Immunology

Department of Clinical & Experimental Medicine (BKV)

Faculty of Health Sciences Linköping University, Sweden Email: Maria.Lerm@liu.se Phone: +46 (0)73-270 77 86

Referee 2 Prof. Tapas C Ghosh,

Senior Professor

Bioinformatics Center (Center of Excellence),

Bose Institute, India

Email: Tapash@jcbose.ac.in, Tapash@gmail.com

Phone: +91 704 477 04 27