Sanjukta Chakravorti

Designation: Visiting Scientist (Indian Statistical Institute, An Institute of National Importance, Kolkata)

Former Senior Research Fellow (PhD student), Indian Statistical Institute- An Institute of National Importance, Kolkata.

Affiliation: Indian Statistical Institute (Under Ministry of Statistics and Programme Implementation)

Contacts/ Address for communication:

fficial Address eological Studies Unit, Indian Statistical Institute		Personal Address B- 12 Jayashree Park, Behala, Kolkata 700034, West-		
203, Barrackpore Trunk Road , Kolkata 700108, West – Bengal , India Electronic Communication	Ben	gal, India.		
chirpymoni2009@gmail.com ;	3	https://scholar.google.com/citations?user=OyfbIn		
sanjukta90_r@isical.ac.in https://palaeosanjukta.home.blog/		0AAAAJ&hl=en		

https://www.researchgate.net/profile/Sanjukta

_Chakravorti

https://orcid.org/0000-0002-8766-6176

Foreign: English; Spanish Regional: Bengali (Mother tongue), Hindi (National Language)

Language Spoken:

Area of Vertebrate Paleontology, Geological field mapping, Data Analysis, Morphometrics, Phylogeny, Stratigraphy, Gondwanan geology, Paleohistology, Micro-Computed Tomography study, Deformation mechanisms in rocks and retrodeformation in fossils, Paleoclimatic reconstruction

Educational Qualifications

PhD (Senior Research Fellow) (To submit in December 2020)		Studies Unit, Indian Statistical	2014- Present
Master of Science (M.Sc.) (Two years)	University of Calcutta	 Advisor: Prof. Tapas Bhattacharyya (Dept. of Applied Geology, University of Calcutta) M.Sc. Thesis: Deformation of a granitoid body within North Puruliya Shear Zone, near Bero, Puruiya District, West – Bengal. M.Sc. Special colloquium: Non- Endemism of Indian vertebrates since Mesozoic 	2012- 2014
BachelorofScience (B.Sc.)(Three years)	Asutosh College (University of Calcutta)	Geological Mapping in the Archean Bhilwara Supergroup, Rajasthan, India. Teaching Experience	2009- 2012

GuestLecturerforLectures on Basics of R programming; Third Semester MastersBatchesM.Sc.course (M.Sc.) in Applied Geology;2016-2017(AsutoshCollege;Module: Geostatistics and Data Analysis; Department of Geology,2017-2018

Paper-setterandModule: Geostatistics and Data Analysis; Department of Applied2018Examiner for M.Sc.Geology, M.Sc.(AsutoshCollege;University of Calcutta)

Advising

Master's Thesis: Shradha Das (M.	Sc.; Thesi	s title:	Taphonomy	of	the	2015-
University of Calcutta)	Metoj	oosauridae in	the Aigerapalli	bone	bed	2017
Instructor: Prof. Dhurjati Prasad Senguj	ota; of the	Late Triassic	Maleri Formatio	on, Ind	lia.	
(Geological Studies Unit, Inc	lian					
Statistical Institute)						
Summer Intern Doulemi Kumer: Deportm	ant of goold	ay and goor	hysics. Indian I	notitut	a of	2017

Summer Intern Poulami Kumar; Department of geology and geophysics; Indian Institute of 2017 Technology; Kharagpur

Publication

Articles

Chakravorti, S., & Sengupta, D. P. (2019). Taxonomy, morphometry and morphospace of cranial bones of *Panthasaurus* gen. nov. *maleriensis* from the Late Triassic of India. *Journal of Iberian Geology*, 45(2), 317-340.

Teschner, E. M., **Chakravorti, S.**, Sengupta, D. P., & Konietzko-Meier, D. (2020). Climatic influence on the growth pattern of *Panthasaurus maleriensis* from the Late Triassic of India deduced from paleohistology. *PeerJ*, 8, e9868.

Chakravorti, S., Dias-da-Silva, S., Sengupta, D.P. (2020) New Combination for an Early Triassic Rhytidosteid from Southern Brazil with Comments on Taphonomic Deformation of a Related Indian Taxon; *Journal of Vertebrate Paleontology* (Awaiting second revision)

Sarkar, S., **Chakravorti, S.**, Chaudhary,S.K., Wahi,P., Munshi,P.,Sengupta,D.P.(2020). CT powered fractal dimension-based technique to differentiate between coprolites and body fossils, Biology Letter, (Communicated)

Chakravorti,S., & Bhattacharyya,T. (2014). Deformation of a granitoid body within North Puruliya Shear Zone, near Bero, Puruiya District, West – Bengal. (A thesis submitted for the partial fulfilment of M. Sc.in Applied Geology of the University of Calcutta)

Important Abstracts

Chakravorti,S. (2016). "R" The Shape Prospector in Palaeontology. Abstract book Convergence IISER Mohanpur,26

Chakravorti, S. and Sengupta, D.P(2016). Indian Metoposaurid Amphibians: Morphometry, Taxonomy and Dispersal. "Early Tetrapods Awaken". XIV Annual Meeting of the European Association of Vertebrate Palaeontologists 6-10 July 2016, Haarlem, The Netherlands Programme and Abstract Book, 96 **Chakravorti, S**. and Sengupta, D.P. (2016). Morphospace and Adaptive Landscape: A Two-Way Ticket to Future Palaeontology. Developments in Geosciences in the Past Decade- Emerging Trends for the Future and Impact on Society and Annual general Meeting of the Geological Society of India, Seminar and Abstract Volume,105.

Chakravorti, S. (2017). A New Method for Understanding the Morphological Limitations of the Short-Faced Temnospondyl Forms. Abstract book of 4th Young Natural History Scientist Meeting (YNHM), Paris,146

Chakravorti, S. and Sengupta, D.P. (2017). Shape Analysis of Extinct Amphibian Skulls Using R. Second National Geo – Research Scholars Meet, 2017; Wadia Institute of Himalayan Geology, Dehradun. Abstract Volume,54

Chakravorti, S. & Sengupta, D. P. (2018). Indian Trematosaurid Amphibians: A Tale of Two Forms. Abstract book of the XVI Annual Meeting of the European Association of Vertebrate Palaeontology, Caparica, Portugal, 42.

Chakravorti,S.(2019). Life from Land to Water: A Triassic Rendezvous of Indian Temnospondyls. Programme and abstract book of the 11th North American Paleontological convention, Riverside,

California, 95.

Chakravorti, S. and Sengupta, D.P. (2019). Stromatolite? First Report on Biologic Trace Organisms Preserved on an early Triassic Temnospondyl Substrate. Programme and abstract book of the 11th North American Paleontological convention, Riverside, California, 95.

Chakravorti,S. (2020). Putative erythrocyte structures reveal for the first time the effect of pyritization on protein preservation in 250 million years old fossil amphibian from the Panchet Formation. 80th Annual meeting of the Society of Vertebrate Palaeontology.

Chakraborty, S.; **Chakravorti, S.** and Sengupta, D.P. (2020). Preliminary taphonomic observations on larger benthhic foraminifera of Fulra Limestobe, Kutch Basin, India. TaphCon.

Awards and Achievements

Junior Research Fellowship	Competitive fellowship based on merit.	2014
Awarded by: Indian Statistical Institute		
Best Poster	Poster: R- The Shape Prospector in	2016
Awarded by: Indian Institutes of Science,	Palaeontology	
Education and Research (IISER), Mohanpur		
The Annual Meeting Grant (AMG) which	Competitive international grant awarded on the	2018
succeeds the Raymonde Rivoallan Fund (RRF)	basis of merit of abstract submitted for the	
and the Student Travel Grant (STG)	Annual meeting of the European Association	
Awarded by: The European Association of	of Vertebrate Paleontology (EAVP), Caparica	
Vertebrate Palaeontology		
North American Paleontological Convention	Competitive grant awarded on the basis of the	2019
(NAPC) student travel grant	abstracts submitted for the conference	
Jackson School of Geosciences Student Member	Competitive grant based on merit.	2020
Travel Grant		
Awarded by: Society of Vertebrate Paleontology		
(SVP)		
Engagement Grant for Palaeontological	Highly competitive grant based on merit of	2020
Outreach	proposal for palaeontological outreach	

Awarded by : The Palaeontological Association

Invited Lectures/Conference Presentations

Indian Metoposaurid Amphibians: Morphometry, Taxonomy and Dispersal	XIV Annual Meeting of the European Association of Vertebrate Palaeontology, Haarlem, Netherands Symposium: "Early Tetrapods Awaken"	2016
Lecture on Morphospace and Adaptive Landscape: A Two-Way Ticket to Future Palaeontology	Annual General Meeting of the Geological Society of India Symposium: Developments in Geosciences in the Past Decade- Emerging Trends for the Future and Impact on Society	2016
Shape Analysis of Extinct Amphibian Skulls Using R.	Second National Geo – Research Scholars Meet, 2017; Wadia Institute of Himalayan Geology, Deheradun	2017
Temnospondyl Amphibians of India: A Triassic Rendezvous	University of Bonn, Germany	2018
Indian Trematosaurid Amphibians: A Tale of Two Forms	XIV Annual Meeting of the European Association of Vertebrate Palaeontology, Caparica, Portugal	2018
Lecture on Life from Land to Water– A Triassic Rendezvous of Indian Temnospondyls	11th North American Paleontological Convention (NAPC), 2019, University of California, Riverside	2019
Putative erythrocyte structures reveal for the first	80th Annual meeting of the Society of	2020

time the effect of pyritization on protein preservation in 250 million years old fossil amphibian from the Panchet Formation	Vertebrate Palaeontology.			
	and Experience			
Museum study & Research visits to study fossil collections and Comparative Anatomy in various laboratories	Field Expertise			
Teylers Museum, Haarlem, Netherlands, 2016	Structural and lithological mapping at the North Purulia Shear Zone, West- Bengal, India			
Muséum national d'histoire naturelle (MNHN), Paris, 2017	 Fossil excavation and mapping sand-mud alternation and lithological study in four majorIndian Gondwana basins viz: In Northern part of the Pranhita- Godavari basin, South-Central India Eastern and western parts of Satpura Gondwana basin, Central India Damodar Gondwana basin, Eastern India Rewa Basin in central India 			
University of Warsaw, Poland, Department of geology, Palaeo-biology laboratory and collection, 2018	Excavation and geological field work in the Paleogene			
Institute of Palaeobiology, Polish Academy of				
Sciences, Warsaw, Poland,2018	Krasiejow, Poland			
Museum of Evolution, Warsaw, Poland,2018	Excavation in Pleistocene MAASVLAKTE II Mammoth rich beds, Rotterdam, Netherlands			
University of Opole, Poland. Department of				
Geology, 2018				
University of Bonn, Palaeobiology Research Lab, 2018	Comparative Anatomy Scanning Electron Microscopy			
Department of Earth Science , Faculdade de Ciências e Tecnologia, Caparica, Portugal Museum of the Geological Survey of India 2014,2016,2017,2018,2019 Geology Museum, Indian Statistical Institute Kolkata. 2014-present	 Micro-computed Tomography R-based Energy-dispersive X-ray spectroscopy 			
Public Outreaches				
Deep Time Biodiversity Outreach Prograt of Bengal	mme at the Indian Statistical Institute 2020			
	um of the Indian Statistical Institute 2014-present			
Association with o	organisations of distinction			

Society of Vertebrate Palaeontology (SVP) Palaeontogical Association (PalAss) European Association of Vertebrate Palaeontologists (EAVP) Paleontological society (Paleosoc)

Special Trainings and Courses Passed

	Organized by: Transmitting Science, Institut Catala de	2018
Mapping Trait Evolution	Paleontologia M. Crusafont	
	Instructor: Dr. Jeroen B.Smaers (Stony Brook University, USA)	
Morphometrics and Its	Organized by: Geological Studies Unit, Indian Statistical	2018
Applications in Palaeontology	Institute, Kolkata	2018
Applications in Talacontology	Instructor: Prof. Nigel Hughes, University of California,	
	Riverside	
R-Programming For	Organized by: Psychology Research Unit, Indian Statistical	2018
Behavioural Data Examination	Institute, Kolkata	2010
For Post – Graduate and	Instructors: Multiple instructors	
Researchers	1	
Multivariate data Analysis	Organized by Indian Association for Productivity, Quality	2017
-	and Reliability (IAPQR)	
Post-graduate course on	Organized by Transmitting Science, Institut Catala de	2017
Geometric Morphometrics in R	Paleontologia M. Crusafont and the Council of Piera, Piera,	
	Barcelona, Spain	
	Instructor: Dr. Julien Claude Institut des Sciences de	
	l'Evolution de Montpellier, ISEM, France	
Basic Statistical Methods and R	Organised by Agricultural and Ecological Research Unit,	2015
Programming	Indian Statistical Institute, Kolkata	
	Instructors: Multiple instructors	2015
Adobe Photoshop: A Basic	Organized by Reprography and Photography Unit, Indian	2015
Course Matheda of Bassarition and	Statistical Institute, Kolkata	2014
Methods of Recognition and Study of Paleosols in	Organized by: Geological Studies Unit, Indian Statistical Institute, Kolkata	2014
Sedimentary Successions	Instructor: Prof. Georgio Basilici, University of Campinas,	
Seumentary Successions	Brazil, November 2014	
Multivariate Statistics and Data	Organized by Indian Statistical Institute (PhD course work)	2014
Analysis	Instructor: Prof. Indranil Mukhopadhyay, Human Genetics	2011
	Unit, Indian Statistical Institute, (ISI, Kolkata)	
R –Programming for PhD		2014
course	Instructor: Prof. Sabyasachi Bhattacharya, Agricultural and	
	Ecological Research Unit, ISI, Kolkata	
Advanced Sedimentology for	Organized by: Geological Studies Unit, Indian Statistical	2014
PhD course	Institute, Kolkata	
	Instructor: Prof. Sarbani Patranabis Deb, Dr. Amlan Banerjee	
	(Geological Studies Unit, Indian Statistical Institute, Kolkata)	
Advanced Structural geology	Organized by: Geological Studies Unit, Indian Statistical	2014
for PhD course	Institute, Kolkata	
	Instructor: Prof. Dilip Saha (Geological Studies Unit, Indian	
Advenced Delession for	Statistical Institute, Kolkata)	
Advanced Palaeontology for		
PhD course	Institute, Kolkata	
	Instructor: Prof. Dhurjati Prasad Sengupta, Geological Studies Unit, Indian Statistical Institute, Kolkata	
	Stadios Onit, matan Statistical Institute, Kolkata	