

DR. ADRITA CHOUDHURI**Email Id** – adritachoudhuri@gmail.com;

adrita.choudhuri@bsip.res.in

Contact Phone No. – +919432548444,
+919748047498**Present Status**

Scientist B in Birbal Sahni Institute of Palaeosciences, Lucknow-226007

Research Interest

Sedimentology, Precambrian Geobiology, Sequence Stratigraphy, Basin Evolution

Academic Background

1. Post-doctoral experience in **University of Poitiers, France** (January 2020 to May 2020)
2. Post-doctoral experience as **DST INSPIRE faculty** in Department of Earth Sciences, **IISER-Kolkata** (April 2018 to June 2021).
3. Ph.D. (11th October 2017), Facies, Facies Tracts, Sequence Building in Parts of Two Proterozoic Basins, India (Under supervision of Prof. Subir Sarkar), Jadavpur University, Kolkata, India.
4. M.Sc. (2012), Applied Geology, Jadavpur University, Kolkata, India.
5. B.Sc. (2010), Geological Sciences, Jadavpur University, Kolkata, India.

EDUCATIONAL QUALIFICATION	DISCIPLINE	YEAR	BOARD / INSTITUTION	MARKS OBTAINED (%)
Post Graduate (2 years)	Master in Science in Applied Geology	2012	Jadavpur University, Kolkata	76% (1 st class)
Graduate (3 years)	Bachelor in Science (Honors in Geology), Physics, Mathematics, Computer Application	2010	Jadavpur University, Kolkata	77.75% (1 st class with distinction)
Higher Secondary Examination (12 th standard)	Bengali, English, Physics, Chemistry, Biology, Mathematics	2007	West Bengal Board of Higher Secondary Education	79%
Madhyamik Examination (10 th standard)	Bengali, English, Physical Science, Life Science, Mathematics, Geography, History, Pisciculture (additional)	2005	West Bengal Board of Secondary Education	89% (64 th rank within the State)

Publications (Full Articles)

- **Choudhuri, A., Koner, A. Sarkar S., 2022.** Imperfection of stratigraphic record. *Journal of Palaeontological Society of India*, 67, 1-11.
- **Choudhuri, A. 2020.** Implications of microbial mat induced sedimentary structures (MISS) in carbonate rocks: An insight from Proterozoic Rohtas Limestone and Bhander Limestone, India. *J Earth Syst Sci* **129**, 151, <https://doi.org/10.1007/s12040-020-01416-x>.

- **Choudhuri, A.,** Banerjee, S., Sarkar, S., 2020. A review of biotic signatures within the Precambrian Vindhyan Supergroup: Implications on evolution of microbial and metazoan life on Earth. *Journal of Mineralogical and Petrological Sciences*, 115, 162-174.
- **Choudhuri, A.,** Schieber, J., Sarkar, S., Bickford, M.E., Basu, A., 2020. The “Lower Kaimur Porcellanite” (Vindhyan Supergroup) is of sedimentary origin and not tuff. *Journal of the Geological Society of India*, 95, 17-24.
- Mandal, S., **Choudhuri, A.,** Mondal, I., Sarkar, S., Chakraborty, P.P., Banerjee, S., 2019. Revisiting the boundary between lower and upper Vindhyan, Son valley, India. *Journal of Earth System Science*. <https://doi.org/10.1007/s12040-019-1250-2>
- Sarkar, S., **Choudhuri, A.,** Mandal, S., Bose, P.K., 2018. Flat-pebbles and their edgewise fabric in relation to 2-D Microbial Mat. *Geological Journal*. DOI: 10.1002/gj.3312.
- Chakraborty, N., Mondal, A., **Choudhuri, A.,** Mandal, S., Sarkar, S., 2018. Indigenous siliciclastic and extraneous polygenetic carbonate facies in the Albian-Turonian Karai Shale, Cauvery Basin, India. *Carbonates and Evaporites*. 33, 561-576.
- **Choudhuri, A.,** Sarkar, S., Altermann, W., Mukhopadhyay, S., Bose, P. K., 2016. Lakshanhatti stromatolite, India: biogenic or abiogenic? *Journal of Palaeogeography*, 5, 292-310.
- Sarkar, S., **Choudhuri, A.,** Mandal, S., Erikson, P.G., 2016. Microbial mat-related structures shared by both siliciclastic and carbonate formations. *Journal of Palaeogeography*, 5, 278-291.
- Sarkar, S., **Choudhuri, A.,** Banerjee, S., van Loon, A.J., Bose, P.K., 2014. Seismic and non-seismic soft-sediment deformation structures in the Proterozoic Bhandar Limestone, central India. *Geologos*, 20, 89-103.
- Mukhopadhyay, S., **Choudhuri, A.,** Samanta, P., Sarkar, S., Bose, P.K., 2014. Were the hydraulic parameters of Precambrian rivers different? *Journal of Asian Earth Sciences*, 91, 289–297.

Book Chapters

- Mukhopadhyay, S., **Choudhuri, A.,** Chakraborty, N., Sarkar, S., 2019. Aseismic tectonism-induced soft-sediment deformation in a tranquil palaeogeography: Chikkshelikere Limestone Member, India. *Geological Evolution of Precambrian Indian Shield, SES series, Springer*. Pg. 351-372, <https://doi.org/10.1007/978-3-319-89698-4>.

Abstracts in conference volumes

- **Choudhuri, A.,** 2020. Indian record of early motile life. Humboldt Kolleg (FLOW), organised by Department of Geological Sciences, Jadavpur University and AVH Foundation, Germany.
- **Choudhuri, A.,** Mondal, I., Mandal, S., Sarkar, S., 2019. Tempestites vs. Fluxoturbidites: Transition between the Koldaha Shale and the Chorhat Sandstone, Vindhyan Supergroup. 34th IAS (International Association of Sedimentologists) meeting organised by University of Rome Sapienza.
- **Choudhuri, A.,** 2019. MISS in carbonate formations: promoter and inhibitor. Abstract volume of National seminar on Sedimentary researches: Last five decades of

advancement and prospects in future & 35th Convention of Indian Association of Sedimentologists, p. 18.

- Mondal, I., **Choudhuri, A.**, Sarkar, S., 2019. Spectacular morphic and geochemical record of microbial consortia in the Mesoproterozoic Rampur Shale in the Son Valley. Abstract volume of National seminar on Sedimentary researches: Last five decades of advancement and prospects in future & 35th Convention of Indian Association of Sedimentologists, p. 52.
- **Choudhuri, A.**, Sarkar, S., 2017. Are the Mesoproterozoic Lakshanhatti Stromatolites abiotic?. Abstract volume of Earth and Material Sciences for Sustainable Societal Developments, Humboldt Kolleg, p. 46. (presented by A. Choudhuri)
- Mandal, S., **Choudhuri, A.**, Sarkar, S., 2017. Implications of Carbonate Intraclastic Breccias and 2-D Microbial Mats in the Mesoproterozoic Rohtas Limestone. Abstract volume of Earth and Material Sciences for Sustainable Societal Developments, Humboldt Kolleg, p.52.
- Koner, A., Mandal, S., **Choudhuri, A.**, Sarkar, S., 2017. Palaeoenvironmental sea-change across the western Jhuran-Bhuj boundary around Ghuner, Kutch, India. Abstract volume of Earth and Material Sciences for Sustainable Societal Developments, Humboldt Kolleg, p.49.
- **Choudhuri, A.**, Sarkar, S., 2016. Rarity of Microbial Mat Related Structures (MRS) within carbonate deposits: Some Observation. Abstract volume of National conference and 33rd Convention of Indian Association of Sedimentologists with emphasis on Energy Resources and Climatic Change, p. 52. (presented by A. Choudhuri)
- Sarkar, S., **Choudhuri, A.**, Mandal, S., Mandal, S., 2016. Molar tooth structures three Proterozoic Limestone Formations: Some observations. Abstract volume of National conference and 33rd Convention of Indian Association of Sedimentologists with emphasis on Energy Resources and Climatic Change, p. 53.
- **Choudhuri, A.**, Sarkar, S., 2016. Role of microbial mat in intrastratal clast generation in carbonate formations. Abstract volume of National Geo-Research Scholars Meet 2016, Wadia Institute of Himalayan Geology, p.81. (presented by A. Choudhuri)
- **Choudhuri, A.**, Sarkar, S., Altermann, W., Mukhopadhyay, S., Bose, P. K. Lakshanhatti stromatolite, India: biogenic or abiogenic? 2015. Abstracts volume of 2nd International Palaeogeography Conference, Journal of Palaeogeography, p. 13. (presented by A. Choudhuri)
- Sarkar, S., **Choudhuri, A.**, Mandal, S., 2015. Microbial mat-related structures shared by both siliciclastic and carbonate formations. Abstracts volume of 2nd International Palaeogeography Conference, Journal of Palaeogeography, p. 99.
- **Choudhuri, A.**, 2013. Seismites vis-a-vis soft sediment deformation structures of other origins within Neoproterozoic Bhander Limestone, Vindhyan Supergroup, Central India. Modern Geological And geophysical Methods and Their Applications, Abstract volume (ISBN 978-93-80813-22-6) of IGU workshop in Department of Geological Sciences, Jadavpur University, p. 63. (presented by A. Choudhuri)

- Mukhopadhyay, S., Samanta, P., **Choudhuri, A.**, Das, A., Chatterjee, A., Majumder, A., 2013. Influence of sedimentation Rate on Sequence Building Trends: A case study. Modern Geological And geophysical Methods and Their Applications , Abstarct volme (ISBN 978-93-80813-22-6) of IGU workshop in Department of Geolgical Sciences, Jadavpur University, p. 74-75.

M.Sc thesis supervision

1. Mr. Sarat Kumar Siddela, 2019. Soft sediment deformation structures- their distribution and origin: a case study from Mesoproterozoic Chorhat sandstone, Vindhyan Supergroup. (MS thesis submitted towards fulfilment of BS-MS degree in IISER-Kolkata).

Students summer training

1. Mr. Anirban Banerjee, 2022. M.Sc student of IIT-ISM Dhanbad
2. Mr. Ravi Kumar, 2022. BS-MS student of IISER-Kolkata

Project

1. **DST INSPIRE Faculty project entitled “Advent of motile life” (2018-2023; status-ongoing)**

Achievements

1. Received **DST INSPIRE FACULTY AWARD** in 2018.
2. Invited to deliver a scientific lecture in the technical/brain storming session arranged by AAPG and SEG, Kolkata chapter held at ONGC officer's club, Kolkata on 28th July, 2016 and talked about "Role of Intrastratal Clast Generation in carbonate rocks".
3. Oral presentation earned the **2nd Best award** in the **2nd International Conference of Palaeogeography**, sponsored by **Journal of Palaeogeography and SEPM** in Beijing, China in **2015**. I also had an opportunity to visit and study some good Proterozoic stromatolite and intraclasts limestone sections in China during the conference.
4. Selected as **Kumba -Exxaro Doctoral Fellow** in **2014** and worked as a guest researcher in Department of Geology in University of Pretoria, South Africa from 17th October to 7th December, 2014; Invited to deliver a lecture on "Origin of Stromatolites and their microstructures" to the graduate students of the Department of Geology, University of Pretoria.
5. Selected for an **industrial training program** (from 3rd June to 11th July, 2013) fully sponsored by a Brazilian oil company named **Petra Energia S/A** at Rio de Janeiro; Invited to deliver a lecture on “Distribution of Source, Reservoir and Seal Rocks of Khartoum Basin, Sudan Applying Sequence Stratigraphic concepts".
6. Secured **103rd rank (All India rank)** in Gate examination in 2013.
7. Received DST INSPIRE **SHE scholarship** sponsored by DST from 2008-2012.

Positions

1. *Associated Editor board member* of journal *Biopetrology* founded by the *International Biopetrological Association (IBA)*.

2. Member of *International Biopetrological Association (IBA)*.
3. Reviewer of *Journal of Earth System Sciences*
4. *DST INSPIRE Faculty*, Department of Earth Sciences, IISER Kolkata, (23rd April, 2018 to 22nd June, 2021).
5. Member of *SEPM Society for Sedimentary Geology* (December 2015 to present).
6. Member of *Indian Association of Sedimentologist* (November 2017 to present).
7. Student representative of Selection Committee of *Wilson Award Nomination 2016 sponsored by SEPM Society for Sedimentary Geology*.
8. Department of Geological Sciences, Jadavpur University, Senior Research Fellow (April 2015- October 2017)
9. Department of Geological Sciences, Jadavpur University, Junior Research Fellow (April 2013- April 2015)

References

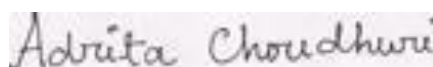
- Prof. Subir Sarkar, Department of Geological Sciences, Jadavpur University, Kolkata-700032. Email: jugeoss@gmail.com; subir.sarkar@jadavpuruniversity.in
- Prof. Pradip K. Bose, Emeritus Scientist, Department of Geological Sciences, Jadavpur University, Kolkata-700032. Email: jugeopkb@gmail.com
- Prof. Abderazzak El Albani, Univeristy of Poitiers, France. Email: abder.albani@univ-poitiers.fr
- Prof. Wladyslaw Altermann, Kumba-Exxaro Chair in Geodynamics, Faculty of Natural and Agricultural Sciences, Department of Geology, University of Pretoria, South Africa. Email: Wlady.Altermann@up.ac.za
- Prof. El Hafid Bouougri, Department of Earth Sciences, Cadi Ayyad University of Morocco. Email: bouougri@uca.ma

Declaration

I, hereby, declare that the information provided above is true to the best of my knowledge and belief.

Date: 25.07.2022

Place: Lucknow-226007



(ADRITA CHOUDHURI)

Signature