

SUBHRONIL MONDAL

Assistant Professor
Department of Geology, University of Calcutta,
35, Ballygunge Circular Road, Kolkata-700019
Email: subhronil.m@gmail.com
Web: <https://sites.google.com/site/subhronilindia/>



Employments and Academic Positions

- 2015-present Assistant Professor, Department of Geology, University of Calcutta, India
- 2010 – 2014 Instructor and Teaching Assistant, Department of Geology, University of South Florida, USA

Education

- 2010-2014 Ph.D. in Geology: University of South Florida, Florida, USA
- 2007-2009 M.Sc. in Applied Geology: Jadavpur University, India [79.5%]
- 2004-2007 B.Sc. in Geological Sciences: Jadavpur University, India [77.0%]

Grants/Awards/Fellowships

- 2017 Research Grant, Indian Statistical Institute (as co-PI)
- 2015 Fast Track Young Scientist Grant, SERB, India
- 2013 Steven Jay Gould Award, Paleontological Society, USA
- 2013 Geological Society of America Research Grant, USA
- 2012,2013 Geological Society of America Student Travel Grant, USA
- 2012 Gulf Coast Association of Geological Societies Grant, USA
- 2012 Sigma Xi Research Grant, USA
- 2012 Sharda Chandra Gold Medal for best Indian paper of 2012 (Bardhan et al., 2012), Palaeontological Society of India, India
- 2011,2012 Tharp Award. Department of Geology, University of South Florida, USA
- 2010 University of South Florida Conference Presentation Grant, USA
- 2010 DAAD Indo-German International PhD Fellowship, Germany (Declined)
- 2009 CSIR-UGC Ph.D. Fellowship [NET] (Resigned)

Research Papers

(* student authors)

24. Gupta, M*, **Mondal, S.**, Chakraborty, H.*, Chaudhuri, P.in revision. Nature of spatial heterogeneity of the coastal, marine ecoregions along the eastern coast of India. *Journal of Earth System Science*.

23. **Mondal, S.**, Bose, K., Das, S.S. in review. Observation of life habit of the windowpane oyster *Placuna placenta* from Gujarat. *Current Science*.

22. **Mondal, S.**, Harries, P.J. under revision. Functional diversity and niche – missing concepts in evaluating ecological diversity through time. *Paleobiology*.

21. Paul, J., **Mondal, S.**, Kayal, R., Sarkar, D. 2019. Burrow morphology of ocypodid crab *Ocyopode ceratophthalma* at Chandipur Coast, Eastern India and its implications. *Current Science*. 117(4): 699-705.

20. **Mondal, S.**, Chakraborty, H.*, Paul, S. 2019. Latitudinal gastropod drilling predation gradient through time. *Palaios*. 34: 261–270.

19. Das, S.S., **Mondal, S.**, Saha, S.,*Bardhan, S., Saha, R. 2019. Family Naticidae (Gastropoda) from the Upper Jurassic of Kutch, India and a critical reappraisal of taxonomy and time of origination of the family. *Journal of Palaeontology*. 93(4): 673–684.

18. **Mondal, S.** 2017. A Short Review of Phanerozoic Taxonomic and Ecologic Diversity of Bivalves. *Indian Journal of Geology*. 86-87(1-4): 19-34.

17. Dutta, R., Bardhan, S., Paul, S., **Mondal, S.** 2017. The taxonomic status of the genus *Hubertoceras* Spath: a new light on sexual dimorphism from the Callovian ammonites of Kutch, India. *Palaeontologia Electronica*.

16. **Mondal, S.**, Goswami, P., Bardhan, S. 2017. Naticid confamilial drilling predation through time. *Palaios*. 32 (5), 278-287.

15. Sarkar, D., Bardhan, S., **Mondal, S.**, Das, A., Pahari, A., Buragohain, D., Saha, S. 2016. Predation on Recent terebrid gastropods from the Indian Subcontinent and a spatiotemporal reappraisal based on revised global database. *Malacologia*.

14. Pahari, A., **Mondal, S.**, Bardhan, S., Sarkar, D., Saha, S., Buragohain, D. 2016. Subaerial naticid gastropod drilling predation by *Natica tigrina* on the intertidal molluscan community of Chandipur, Eastern Coast of India. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 451: 110-123.

13. **Mondal, S.**, Harries, P.J. 2016. The Effect of Taxonomic Corrections on Phanerozoic Generic Richness Trends in Marine Bivalves with a Discussion on the Clade's Overall History. *Paleobiology*. 42(01): 152-171.

12. **Mondal, S.**, Harries, P.J. 2016. Phanerozoic trends in ecospace utilization: The Bivalve perspective. *Earth Science Review*. 152: 106-118.

11. **Mondal, S.**, Harries, P.J. 2015. Temporal Patterns in Successful and Unsuccessful Shell-Breaking Predatory Attack Strategies on *Varicorbula* in the Plio-Pleistocene of Florida. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 428: 31–38.

10. **Mondal, S.**, Bardhan, S., Mallick, S., Roy, A. published online. Repair scars on *Mactra violacea* from the eastern coast of India: a new classification and a model for describing shell breakage on bivalves. *Paleontologia Electronica*. 17.3.45A: 1-13.

9. Das, A., **Mondal, S.**, Bardhan, S. 2014. A note on exceptionally high confamilial naticid drilling frequency on *Natica gualteriana* from the Indian subcontinent. *Historical Biology*. 26: 758-764.

8. **Mondal, S.**, Hutchings, J., Herbert, G.S. 2014. A note on edge drilling predation by naticid gastropods. *Journal of Molluscan Studies*. 80: 206–212.

7. **Mondal, S.**, Harries, P.J., Paul, S., Herbert, G.S. 2014. The paleoecological significance of coupling metrics of successful and unsuccessful shell-breaking predation on bivalve prey: a case

study from the Neogene of Florida. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 399: 89-97.

6. Paul, G., Das, A., Bardhan, S., **Mondal, S.** 2013. Predation on Recent turritelline gastropods from the Indian subcontinent and comparison with a revised global database. *Malacologia*. 56(1-2): 193-213.

5. Roy, A., Bardhan, S., Das, S., **Mondal, S.**, Mallick, S. 2012. Systematic revision and palaeobiogeography of *Perisphinctes* Waagen (Ammonoidea) from the Oxfordian of Kutch, India: Stratigraphic and evolutionary implications. *Palaeoworld* 21: 167–192.

4. Bardhan, S., Chattopadhyay, D., **Mondal, S.**, Das, S. S., Mallick, S., Roy, A., Chanda, P. 2012. Record of intense predatory drilling from Upper Jurassic bivalves of Kutch, India: Implications for the history of biotic interaction. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 317–318: 153–161.

3. Bardhan, S., Ghosh, T., **Mondal, S.**, Roy, A., Mallick, S. 2011. The Holocene Sea level Changes as Evidenced from Palaeontological Proxy Data: a Case Study from *Glaucanome sculpta* (Bivalvia) along the eastern Coast of India. *Palaeoworld* 20: 92–97.

2. **Mondal, S.**, Bardhan, S., Sarkar, D. 2010. Testability of Energy Maximization Model (Kitchell et al., 1981) of naticid predation on two bivalve prey from eastern coast of India. *The Nautilus*. 124: 1-14.

1. **Mondal, S.**, Das, S., Mallick, S., Adhikary, D. 2009. Miocene shark teeth assemblages and ancillary fish taxa from Baripada, Orissa: Taxonomic revision and Palaeobiogeographic overview. *Journal of the Palaeontological Society of India*. 54: 135-152.

Abstracts (selected)

(* student authors)

16. Sarkar, U., **Mondal, S.**, Kayal, R., Sarkar, D., Biswas, R., Mohanty, S. 2018. Comparison of foraminiferal abundance and diversity at different sub-environment of Chandipur Coast, Odisha, India. National Seminar on Frontiers in Earth Science Researches, Utkal University.

15. Saha, S.*, Sinha, S.*, Dey, S.*, Chakraborty, H.*, **Mondal, S.**, Das, S.S. 2017. Spatio-environmental variation in modern marine gastropod shell forms along the coastal regions of Odisha, India. *National Geo-Research Scholars Meet-2017 at Wadia Institute of Himalayan Geology, Dehradun*.

14. Chakraborty, H.*, **Mondal, S.**, Sarkar, D., Goswami, P., Saha, R., Sandip, S.*, Pahari, A. 2017. Spatio-environmental variation in gastropod drilling predation on bivalve *Timoclea imbricata* along the eastern coast of Orissa, India. *National Geo-Research Scholars Meet-2017 at Wadia Institute of Himalayan Geology, Dehradun*

13. Saha, S. *, **Mondal, S.**, Bardhan, S., Mallick, S., Pahari, A., Sarkar, D., Buragohain, D., Das, A., Goswami, P., Dutta, R. 2016. Predator-Prey Interaction on the Molluscan Assemblage from Chandipur-on-Sea, Odisha. *National Geo-Research Scholars Meet-2016 at*

12. **Mondal, S.**, Sarkar, D., Goswami, P. 2015. Indian record of drilling predation by the predatory gastropods and its global significance. *XXV Indian Colloquium on Micropaleontology & Stratigraphy*.

11. Harries, P.J., Cardenas, A.L.C., **Mondal, S.**, 2015. Should the long-term biotic responses to environmental changes be linear/exponential?: *perspectives from planktic foraminifera and marine bivalves*. *Geological Society of America Abstract with program*, 47(7).

10. Brown, G.M., **Mondal, S.**, Harries, P.J. and Slattery, J.S. 2014. Drilling predation patterns from the Miocene Chipola formation of Florida: taphonomic versus environmental overprinting. *Geological Society of America Abstract with program*, 46(6).

9. Whorley, T.L., **Mondal, S.**, Harries, P.J. and Slattery, J.S. 2014. Impact of environmental variability on drilling predation: a comparison among *Turritella*-dominated assemblages. *Geological Society of America Abstract with program*, 46(6).

8. **Mondal, S.**, Slattery, J.S. and Harries, P.J. 2014. Predatory Drilling Snails. *TATE Geological Conference, Casper, Wyoming*.

7. **Mondal, S.** and Harries, P. 2013. Prey selectivity by the predatory drilling gastropods: a Meso-Cenozoic perspective. *Geological Society of America Abstract with program*, 45(7).

6. **Mondal, S.**, Herbert, G., 2012. Effect of extinction on durophagy: a case study from the Neogene of Florida. *Geological Society of America Abstract with program*, 44(7).

5. **Mondal, S.**, Herbert, G., 2012. Is edge drilling a pervasive facultative response to enemies? *Geological Society of America Abstract with program*, 44(7).

4. **Mondal, S.**, Hutchings, J., Herbert, G. S. 2012. Obligatory edge drilling by naticid gastropod *Polinices lacteus* from Florida. *Florida United Malacologists (FUM) Conference, Sanibel Island, Florida*, 10.

3. Bardhan, S., Das, S.S., Mallick, S., **Mondal, S.**, Dutta, R. 2012. The record of oldest naticid (gastropod from the Oxfordian (Upper Jurassic) of Kutch, India: palaeoecological implications. *Geological Society of America Abstract with program*, 44(7).

2. Das, S. S., Mallick, S., **Mondal, S.** 2012. Record of naticid like gastropod genera from Jurassic of Kutch: implications for paleoecological significance. *National Level Field based Workshop on Geology of Kachchh basin, western India: Present status and future perspectives. Abstract. Kachchh University, Gujarat, India.*

1. **Mondal, S.**, Herbert, G., Bardhan, S. 2010. Analyzing repairability of shell breakage in bivalves. *Geological Society of America Abstract with program*, 42(5).

Teaching Experiences

- Paleontology Theory and Practical (Dept. of Geology, CU)
- Mesozoic Stratigraphy (Dept. of Geology, CU)
- Fossils (Dept. of Environmental Sciences, CU)
- History of Earth and Life Laboratory (USF)
- History of Earth and Life Theory (USF)

Research Supervision

- 2019-present: Akash Maitra (PhD)
- 2018-present: Neha Sharma (PhD)
- 2017-present: Sandip Saha (with Dr. S.S. Das, ISI Kolkata) (PhD)
- 2015-present: Hindolita Chakraborty (PhD)
- 2018-present: Debaaditya Mukhopadhyay, Aindrila Mukherjee, Ankita Samanta, Saptarshi Roy, Debarghya Das (MSc thesis)
- 2017-2018: Abhishek Ghosh, Ripon Ghosh, Megha Gupta (MSc thesis)
- 2016-2017: Sahana Dey, Sayantan Sinha, Krishanu Chatterjee (MSc thesis)
- 2017: Akash Maitra, Anip Topno, Bhaskar Nandi, Salini Mandal (visiting Summer Research students)

Invited Talks

1. Phanerozoic Taxonomic and Ecological Diversification History: A Case Study from Bivalves. TDB College, Raniganj, India. 2015.
2. Phanerozoic Diversification History of Bivalves. 20th Abaninanth Chaudhuri Memorial lecture, University of Calcutta. 2015.

Societal Outreach

- Associate editor and writer of a social blog for popularizing Earth Science in India (Geoscience Education)
- Leader of a social project of cleaning the coastal regions of India, named and organized as “The Clean Beach”