

Jyotirmoy Paul

PhD Student

Short Curriculum vitae

Centre for Earth Sciences

Indian Institute of Science, Bangalore

Email: jyotirmoy@iisc.ac.inWeb: <http://ceas.iisc.ernet.in/~jyotirmoy/>

Education

PhD in Geodynamics	Indian Institute of Science, Bangalore	2015-present
M.Sc. in Applied Geology	Jadavpur University	2013 - 2015
B.Sc in Geological Sciences	Jadavpur University	2010-2013

Other Research experiences

Schlumberger Mumbai	Summer intern	2014 June- July
Indian Institute of Technology, Bombay	Summer intern	2013 May- June 2012 June, July

International Grants and awards

Roland Schlich Grant	European Geoscience Union	2018,2020
AGU Travel Grant	American Geophysical Union	2018, 2019
Travel Grant	International Association of Mathematical Geosciences	2014
Conference Grant	Young Earth Scientist	2014
Best poster	3 rd YES Congress	2014

National Grants, fellowship

Tata Trust Grant	Tata Trust	2019
Senior Research Fellowship	Indian Institute of Science	2017- ongoing
Junior Research Fellowship	Indian Institute of Science	2015-2017
Inspire Fellowship	Department of Science and Technology	2010-2015

Synergistic activities

Session chair	American Geophysical Union Fall Meeting	2019
Social media coordinator	European Geoscience Union, Geodynamics division	2019- Present
Blog Editor	European Geoscience Union, Geodynamics division	2020- Present

Professional Affiliation: Student member: American Geophysical Union, European Geoscience Union

Complete List of Publications:

In peer reviewed journals

4. J. Paul*, A. Ghosh, 2020. Evolution of cratons through the ages: A time-dependent study, *Earth and Planetary Science Letters*, 531, 115962.
3. J. Paul*, S. Mondal, R. Kayal, D. Sarkar, 2019. Burrow morphology of the ocypodid crab *Ocypode ceratophthalma* at Chandipur Coast, Eastern India and its implications. *Current Science*, 117(4), 699-705.
2. J. Paul*, A. Ghosh, C.P. Conrad, 2019. Traction and strain-rate at the base of the lithosphere: An insight into cratonic survival. *Geophysical Journal International*, 217(2), 1024-1033.
1. A.S. Baidya, J. Paul, D.C. Pal, and D. Upadhyay, 2017. Mode of occurrence and geochemistry of amphibole in the Kolihan-Chandmari copper deposits, Rajasthan, India: Insight into the ore-forming process. *Ore Geology Reviews*, 80, 1092-1110.

*** Corresponding author of the paper**

Conference Presentations:

13. **J. Paul**, A. Ghosh, 2020. Understanding deformation of cratons in presence of mid-lithospheric discontinuity. *EGU General Assembly, Vienna*.
12. **J. Paul**, A. Ghosh, 2020. On survival of cratonic lithosphere. *36th International Geological Congress, Delhi*.
11. **J. Paul**, A. Ghosh, 2019. Evolution of cratons in time-dependent mantle convection models. *AGU Fall Meeting, San Francisco*.
10. A. Ghosh, **J. Paul**, 2019. Effect of Weak Mid-lithospheric Discontinuities on the Survival of Cratons. *AGU Fall Meeting, San Francisco*.
9. J. Paul, A. Ghosh, 2019. Time dependent 3-D numerical modeling of the cratonic evolution. *Ada Lovelace Workshop, Siena, Italy*.
8. J. Paul, **A. Ghosh**, 2019, Evolution and survival potential of cratons: A numerical study. *IUGG General Assembly, Montreal*.
7. **J. Paul**, A. Ghosh, 2018, Stability of cratons since early Phanerozoic. *AGU Fall Meeting, Washington DC*.
6. A. Ghosh, **J. Paul**, C.P. Conrad, 2018, The Relation Between Traction and Strain Rate at the Base of the Lithosphere: Key to Understanding Cratonic Stability *AGU Fall Meeting, Washington DC*.
5. **Paul J**, Ghosh A., 2018, Variation of traction and strain rate with lithospheric thickness: An insight into understanding cratonic stability, *EGU General Assembly, Vienna*

4. **Paul J.**, Baidya A. S., and Pal D. C., 2015, Origin of alternate amphibole and quartz rich bands in amphibole bearing quartzite from North Khetri Copper Belt, Rajasthan, India, *AGU Fall Meeting, San Francisco*

3. Baidya A. S., **Paul J.** and Pal D. C., 2014, Multiple stages of Amphibole formation in the Chandmari Cu-deposit, Khetri copper belt, Rajasthan: implications for changing fluid composition vis-à-vis sulfide mineralization, *National Conference on Making of the Indian Continent, Presidency University, Kolkata.*

2. **Paul J.**, 2014, Diversity of Indian climate and its effect on Indian music, *3rd YES Congress Abstract Volume*

1. **Paul J.**, and Mondal S., 2013, Ecological significance of Ocypode crab burrows: A case study from Chandipur, Eastern Coast of India, *National Conference on Earth Science in India: Challenges and Emerging Trends, Indian Institute of Technology, Roorkee, Abstract volume*

Book Contributions

1. **Paul J.**, 2015, Tightly folded quartz vein in dolomitic host rock, Central Indian Suture Zone. Jabalpur, Madhya Pradesh, India. In: *Mukherjee, S. (Ed) Atlas of Structural Geology, Elsevier*

2. **Paul J.**, 2015, Doubly plunging round hinge isoclinal fold in calc-silicate. Central Indian Suture Zone. Jabalpur, Madhya Pradesh, India. In: *Mukherjee, S. (Ed) Atlas of Structural Geology, Elsevier*

3. **Paul J.**, 2015, Folded quartz vein in dolomitic rock showing different geometries of hinge region. Central Indian Suture Zone. Jabalpur, Madhya Pradesh, India. In: *Mukherjee, S. (Ed) Atlas of Structural Geology, Elsevier*

4. **Paul, J.**, 2015, Z-type of buckle fold of amphibole rich layer in metamorphosed granitic host rock. Chhotonagpur Gneissic Complex, Maithon, West Bengal, India. In: *Mukherjee, S. (Ed) Atlas of Structural Geology, Elsevier*

Articles in social scientific media

5. How did the Oldest Part of the Earth Still Survive Today, *AWSAR Scheme, Department of Science and Technology, India*

4. Experience of a first time attendee, European Geoscience Union, Geodynamics division Blog, 2018

3. Deformation Pattern as indicator of structural evolution: Ghatsila-Galudih-Tentuldanga fold belt, Tentuldanga, Jharkhand, Eastern India, Eastern India, *Earth Science India, 2014*, PI VII(IV) P. 1-8

2. Talc, a hydrous mineral of phyllosilicate group containing Mg, formed in the marble rock of Jabalpur, *Geo-Gallery, Earth Science India, 2013*

1. Tremolite, a Ca-Mg hydrous mineral of amphibole group, is one of the major metamorphic, *Geo-Gallery, Earth Science India, 2013*

Other Social and Historical articles

3. Status of academic freedom, 2019, Confluence, Indian Academy of Science
2. The Forgotten Tomb: Inspiration of the Taj Mahal, 2018, Coldnoon
1. Celebrating scripts from around the world, 2018, IISc Connect