Kumaun University, Nainital Curriculum Vitae

Name : Deepa Arya

Designation : Assistant Professor

Department : Geology Department

Contact Information

• Email Address : arya.earth11@gmail.com

• Mobile No : +917906802838

ORCD ID :0000-0002-8933-3949

Educational Qualification

Degree	University	Subjects	Year
B.Sc.	Kumaun University	Zoology, Geology, IT	2005
	Nainital		
M.Sc.	Kumaun University	Geology	2007
	Nainital		
Ph.D.	Kumaun University	Geology	2018
	Nainital		

Work Experience

Position	Department	University/Organization	Year
MHRD-Fellow	Geology	IIT-Roorkee	2009
CSIR-JRF	Geology	IIT-Bombay	2010

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Member	Admission Committee	Kumaun University Nainital	2011-2023
Member	Examination control	Kumaun University Nainital	2020
Member	Grievance Cell	Geology Department	2011-2023

Research Interests

Igneous petrology, magma chamber dynamics, mantle geochemistry, phase equilibria studies, ore and mineralization, fluid inclusion studies and microthermometry, isotope studies.

Publications

a) Research Papers

S. No.	Author's Name	Name of the Journal	Thomson Doutons	Sl. no. of the	Title of the Paper
S. NO.	Author's Name				Title of the Paper
		(Volume no. and	Impact Factor	Journal in the	
		Page no.)	of the Journal	list of	
				UGC/UGC-	
				CARE	
1.		Journal Geological	1.459	116	Morphology and Chemistry of
		Society of India			Zircons from the Paleoproterozoic
		Vol.93, March 2019,			Cu (±Mo±Au) Hosting Granitoids
		pp.257-262			of Malanjkhand Mine Area, Central
	Tomas Vaculovic				India
2.		Journal of Geosciences			Geochemistry and Petrogenesis of
		Research, Vol. 3, No.2,			Mafic Dykes in Paleoproterozoic
		July, 2018, pp. 121-132		238	Cu(±Mo±Au) Hosting Granitoids
	Santosh Kumar,			ISSN,	at Malanjkhand Mine Area, Central
	Kapil S. Panwar,	,		2455-1953	India
	Deepti, G.L.				
	Sindhupe, R.M.				
	Khan				
3.	Deepa Arya	Journal of Geosciences	1.2		Petrographical Evolution of Jhiroli
		Research		238	Magnesite Deposit, Inner Lesser
				ISSN,	Himalaya, Bageshwar,
				2455-1953	Uttarakhand India: Implication on
					low Grade Metamorphic Ores
4.		Journal of Geosciences	1.2		Field and Petrographical Appraisal
	Deewakar Bawari	Research		238	of Dyke Exposure at Kilbury Range
				ISSN,	in Krol Nappe, Kumaun Lesser
				2455-1953	Himalaya, Nainital, India
5.		Lithos Volumes 402-	4.37		Geochemistry and U-Pb-Lu-Hf
		403, 15 nov.2021,		0024-4937	zircon isotopes of Cu (<u>+</u> Au <u>+</u> Mo)
	Santosh Kumar,	106153 (IF4.004),			hosted granitoids of Malanjkhand
	Xisheng Xu	2021-04-09, DOI:			pluton, Central India: Implications
		10.1016/j.lithos2021.1			on petrogenesis, source and crustal
		06153			evolution.
6.	Deepa Arya	Journal of Geosciences	1.2	238	Magnetic susceptibility studies of
0.					
0.		Research		ISSN,	unmineralized granitoids of
0.		Research		ISSN, 2455-1953	unmineralized granitoids of Malanjkhand- Central India

b) Book chapters

S. No.	Title of the Book	ISBN No.	Author's Name	Publisher	If Chapter (page no.)
				Name	
1.	Geology and natural resources of Himalaya	978-93-83247- 95-0	Deepa Arya	ASR Publications, Lucknow	304-309
2.	National workshop Volume 'Landslides' Paper	978-93-82171- 31-7	Deepa Arya	Pratyush Publications, New Delhi	130-136
3.	National workshop Volume 'Landslides' Paper	978-93-82171- 31-7	Deepa Arya	Pratyush Publications, New Delhi	37-44
4.	Traditional farming and climate	978-93-95218- 92-4	Deepa Arya	ASR Publication	In press

c) Conference Publications/Proceedings

S. No.	Name of the title of event	Place organized	Date & Duration	Title of the paper
	(Conference/workshop/seminar/training	at	of the event	if presented
	program)			
1.	Workshop on Gemstones: Their Gemmology and	Department of	21-22, Feburary, 2011	Gemstones: Their
	Geology	Geology, University of		Gemmology and

		Jammu, Jammu		Geology
2.	Government of India sponsored advanced field training programme	Regions of Leh- Ladakh Himalaya	1-15, August, 2011	Major Tectonics and Lithounits in Indus and Shyok Suture Zones of Ladakh Himalaya
3.	National Seminar on Geology and Georesources of Himalaya and Cratonic regions of India	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	10-12 March, 2012	Constraining the origin of Malanjkhand copper deposit, Central India: A new model in favour of porphyry type.
4.	National Seminar on Geology, Biodiversity and Natural Resources of Himalaya and their Intellectual Property Law (2012)	L.S.M. Government P.G. College, Pithoragarh, Uttarakhand	14-15October, 2012	Possible role of microgranular enclave in the origin of Malanjkhand copper deposit, Central India.
5.	International Seminar on Magmatism, Tectonism and Mineralization (MTM-2014)	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	27-29 March, 2014	Variation in granitoids at Malanjkhand copper deposit, Central India: Implication to infer granitoid type responsible for copper mineralization.
6.	Tier II Training Programme, Government of India, Ministry of water resources, River development and Ganga rejuvenation	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	12-16 October, 2015	Training course on Water quality issues/ Water stressed areas
7.	Seminar cum workshop on Recent Advances in the Indian Earth Sciences	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	25-26 March, 2019	Recent Advances in the Indian Earth Sciences
8.	One day awareness programme	UGC-HRDC, Kumaun University, Nainital		Importance of Intellectual Property Rights
9.	International AvH Kolleg Limit-2019	of Administration, Nainital	25 th -27 th September, 2019	Climate, Water and Environment (Limit- 2019)
10.	9 th Hutton Symposium Granites and Related rocks	School of Earth Sciences and Engineering, Nainjing, University, Nainjing,China	13 to 18 th October, 2019	Geochemistry, zircon U-Pb chronology and Lu-Hf isotopes of granitoids from Malanjkhand pluton, Central India: Implication on petrogenesis, mineralization and crustal growth (Accepted)

Projects

Title of the project	Funding agency	Amount (Rs)	Year
1. Geochemistry of	UGC	1.67 Lacs	2012-2014
Hydrous			
Ferromagnesian			
minerals from			
mineralized and			
Barren Granitoids of			
Malanjkhand region,			
Central India:			
Implication on			

Appraisal and Nature of copper deposits. UGC Minor project 2012-2014 (Completed).			
2. Petrochronology of Askot polymetallic deposit and its host granite gneiss Kumaun Lesser Himalaya: Implication on mineralization, magmatism and crustal evolution. File Number: SUR/2022/002664 has been approved by SERB SURE in the current year.	SERB-SURE	26,94,780 INR	2022-2025
3. Mineralogy and petrology of mafic dyke rocks, Nainital district, Kumaun Lesser Himalaya. Kumaun University, Nainital (Ongoing).	Kumaun University, Nainital	2.00 Lacs	2023

Teaching details

Name of the course/paper	Department	University	Year
Physical Geology/ B.Sc. I Semester/ Paper-I	Geology	Kumaun University	2016-2017
Stratigraphy/ B.Sc. IV Semester	Geology	Kumaun University	2018-2021
Stratigraphy/ B.Sc. II Year/ Paper-II	Geology	Kumaun University	2014-2020
Economic geology/ B.Sc. III Year/ Paper-I,	Geology	Kumaun University	2011-2024,
B.Sc.V Semester			2018-2024
Economic geology and mineral exploration/	Geology	Kumaun University	2022
B.Sc.V Semester			
Environmental Geology/ B.Sc. III Year,	Geology	Kumaun University	2012-2024,
B.Sc.V Semester			2018-2024
Elements of mineral exploration/ B.Sc. VI	Geology	Kumaun University	2019-2020
Semester			
Environmental Geology/ B. Sc.VI Semester	Geology	Kumaun University	2019-2024
Stratigraphy/ B.Sc. IV Semester	Geology	Kumaun University	2019-2020
Metamorphic Petrology/ B.Sc. III Semester	Geology	Kumaun University	2020-2021
Igneous and Metamorphic Petrology/ B.Sc. III	Geology	Kumaun University	2021-2022
Semester			
Metamorphic geology/M.Sc. I Semester	Geology	Kumaun University	2018-2020
Economic Geology/M.Sc. II Semester	Geology	Kumaun University	2011-2024
Stratigraphy/M.Sc. II Semester	Geology	Kumaun University	2012-2024

Mineral Exploration/ M.Sc. III Semester	Geology	Kumaun University	2012-2024
Mineral Exploration and Economics/ M.Sc. IV	Geology	Kumaun University	2017-2019
Semester			
Research methodology/ Paper-I	Ph.D.	Kumaun University	2024

Honours and Awards

Award	Awarding Organization	Year
INSA Visiting scientist fellowship	Indian National Science Academy	2014-2015
CSIR-NET (JRF)	CSIR	2009 December
NET-Lectureship	CSIR	2009 June
MHRD-Fellowship	IIT-Roorkee	2009

Conference Presentations

S. No.	Name of the title of event (Conference/workshop/seminar/training program)	Place organized at	Date & Duration of the event	Title of the paper if presented
1.	National Seminar on Geology and Georesources of Himalaya and Cratonic regions of India	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	10-12 March, 2012	Constraining the origin of Malanjkhand copper deposit, Central India: A new model in favour of porphyry type.
2.	National Seminar on Geology, Biodiversity and Natural Resources of Himalaya and their Intellectual Property Law (2012)	L.S.M. Government P.G. College, Pithoragarh, Uttarakhand	14-15October, 2012	Possible role of microgranular enclave in the origin of Malanjkhand copper deposit, Central India.
3.	International Seminar on Magmatism, Tectonism and Mineralization (MTM-2014)	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	27-29 March, 2014	Variation in granitoids at Malanjkhand copper deposit, Central India: Implication to infer granitoid type responsible for copper mineralization.
4.	Seminar cum workshop on Recent Advances in the Indian Earth Sciences	Department of Geology, Centre of Advanced Study Kumaun University, Nainital	25-26 March, 2019	Recent Advances in the Indian Earth Sciences
5.	International AvH Kolleg Limit-2019	Uttarakhand Academy of Administration, Nainital	2019	Climate, Water and Environment (Limit- 2019)
6.	9 th Hutton Symposium Granites and Related rocks	School of Earth Sciences and Engineering, Nainjing, University, Nainjing,China	13 to 18 th October, 2019	Geochemistry, zircon U-Pb chronology and Lu-Hf isotopes of granitoids from Malanjkhand pluton, Central India: Implication on petrogenesis, mineralization and crustal growth
7.	10 th Hutton Symposium Granites and Related rocks	Baveno, Italy	2023	Ore forming fluids of the Malanjkhand copper deposit, Central India: Evidence from fluid inclusions and Raman Spectroscopy.
8.	Goldschmidt 2023	Lyon (France)	10 th to 14 th July 2023	Quantification of physio-chemical

				environment, nature of
				magmatism and
				mineralization of
				Paleoproterozoic
				Malanjkhand Cu-
				deposit, Central India:
				Constraints from phase
				petrology of barren and
				mineralized granitoids.
9.	Global paradigm shift, Initiatives of India in Science,	Veer Wajekar Arts,	10th January 2024	Geochemistry of
	Education, Technology, Business and Climate	Science and	-	Lansdowne granite and
		Commerce College		granite gneiss,
				Garhwal lesser
				Himalaya,
				Uttarakhand, India
10.	Advances in geology & geo-resources of northwestern	University of	23-24 September	Field appraisal of
		Rajasthan	2022	Jaiharikhal-Lansdowne
		-		granite Garhwal lesser
				Himalaya,
				Uttarakhand, India

Loops.

Signature of the faculty member