**Curriculum Vitae**

## Personal Details:



Name: Mohit Arora

Father Name: Mr. Ashok Kumar

Address: 604/14, Near Shambhu Nath Mandir, Inside Jundla Gate, Karnal, Haryana - 132001

Marital Status: Married

Contact No: 9468318357

Date of Birth: 30/11/1988

Sex: Male

Nationality: Indian

Email: [mohitarorakuk12@gmail.com](mailto:mohitarorakuk12@gmail.com)

## Objective:

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To seek job in an organization where I can fully utilize my knowledge and experience to enhance my skills to perform work of the highest standard to achieve maximum output for organization and maintain the highest standard.

## Experience:

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## Space Applications Center (SAC), ISRO, Ahmedabad (Gujarat). (August 2014 to August 2019)

**Responsibilities:**

* Worked on research project on Coral Bleaching Alert System (CBAS). Involved downloading and processing of Sea Surface Temperature (SST) global scale datasets. Programming in MATLAB for data modelling.
* Worked on research project on AVIRIS-NG hyperspectral remote sensing for monitoring and management of Indian coral reef regions.
* Semi-Analytical technique used to derive water quality parameters using AVIRIS-NG hyperspectral data.

## Institute of Seismological Research (ISR), Gandhinagar (Gujarat). (September 2013- May2014)

**Responsibilities:**

* Electrical methods were used for evaluating sub-surface lithology, faults, conductive materials and minerals. Also involved in intensive field instrumentation and data collection.

## Strengths:



* Knowledge in programming languages like MATLAB, PYTHON
* Remote sensing and GIS data handling & processing
* Handling, processing large-size datasets
* Knowledge of field methods and geophysical parameters

## Academic Qualification:

## Ph.D. (Submitted) in Department of Geophysics, Kurukshetra University, Kurukshetra

## M. Tech. (Applied Geophysics) from Kurukshetra University with CGPA 7.24. (September 2013)

## B.Sc. (Physics, Chemistry and Mathematics) from Kurukshetra University with 60.00% marks. (July 2010)

## 12th Standard (Physics, Chemistry and Mathematics) from Haryana Board of School Education (H.B.S.E.) with 67.20% marks.

## 10th Standard from Haryana Board of School Education (H.B.S.E.) with 72.80% marks.

## Technical Skills:



## Instrument: Hydrolab DS 5, Wet LAB, ASD Spectral Radiometer, HR-1024, GER

## 1500, SYSCAL Kit 72 Electrodes

## Software: Origin85, ViewSpec, ENVI, ERDAS, ARC GIS, QGIS, PROSYS (II),

## RESIS2DIV

## Training:



* Two weeks Geological Field Training along Jodhpur region in December, 2010.
* Two weeks Geophysical Field Training at National Geophysical Research Institute (NGRI), Hyderabad in December 2011.
* Two months Geophysical Field training at Indian Meteriological Department (IMD) Delhi in June – July, 2012.
* Two weeks Geophysical Field Training at Oil and Natural Gas Corporation Limited (ONGC), Vadodara in February 2013.
* Six months Geophysical Field Training at Parsan Overseas Pvt. Ltd. Delhi in January – June, 2013 on the topic of Establishing relationship between Shear wave velocity value and SPT (N) value in Tuticorin (Tamilnadu) region.
* Five days Training at Central Ground Water Board (CGWB) Ahmedabad in December 2013 on the topic of Aquifer Information System and Aquifer Management Plan.
* Ten days International Training at Institute of Seismological Research (ISR) Gandhinagar in March 2014 on the topic of Magneto-Telluric Data Acquisition and Processing.

## Symposium/ Conference/ Workshop:



* Participated in **Technical Workshop** at IIT, Kharagpur (Prithvi-2012).
* Participated in **Technical Seminar** at INDIA HABITAT CENTRE (Resonance-12).
* Participated in **Technical Seminar** at National Geophysical Research Institute (NGRI), Hyderabad.
* Participated in **International Workshop** on topic of **Seismic Microzonation** at Institute of Seismological Research (ISR), Gandhinagar (Gujarat).
* Participated in **National Workshop** on topic of **Engineering Seismology** at Institute of Seismological Research (ISR), Gandhinagar (Gujarat).
* Participated in **NISAR Workshop** on topic of **SAR data** at Space Applications Center, (ISRO), Ahmedabad (Gujarat).
* Participated in **ISRS-2016 (Indian Society of Remote Sensing)** conference for **Oral presentation** on dated 07 to 10 December, 2016 at Indian Institute of Remote Sensing, ISRO, Dehradun on the topic entitled “**Coral bleaching due to increased sea surface temperature in Gulf of Kachchh Region, India during June 2016**”.
* Participated in **ACRS-2017 (The 38th Asian Conference on Remote Sensing)** conference for **Poster presentation** on dated 23 to 27 October, 2017 at New Delhi on the topic entitled “**Response of Indian coral reef regions during Mass Coral Bleaching years using NOAA OISST data**”.
* Participated in **INTROMET-2017 (International Tropical Meteorology Symposium)** conference for **Poster presentation** on dated 07 to 10 October, 2017 at Space Applications Centre, ISRO, Ahmedabad on the topic entitled “**Response of coral reefs along Gulf of Kachchh region, India due to elevated thermal stress using NOAA OISST data**”.
* Participated in **APCRS-2018 (Asian Pacific Coral Reef Symposium)** conference for **Paper presentation** on dated 04 to 08 June, 2018 at Cebu City, Philippines on the topic entitled “**Airborne hyperspectral remote sensing for mapping benthic substrates over Pirotan reef, Gulf of Kachchh region, India**”.

## Journal Publications:



* **Arora M.**, Gujarati A., Ray Chaudhury N. and Patel R.C., (2019), Benthic coverage and bottom topography of coral reef environment over Pirotan reef, Gulf of Kachchh region India. ***Geocarto International***, 34(10), 1089-1097. ISSN: 1010-6049 (print), 1752-0762 (online). doi.org/10.1080/10106049.2018.1469678
* **Arora M.**, Ray Chaudhury N. and Gujarati A. (2019), Coral bleaching due to increased sea surface temperature in Gulf of Kachchh region, India during June, 2016**. *Indian Journal of Geo-Marine Science***, 48(3), 327-332.
* Ratheesh R., Ray Chaudhury N., Preeti, R., **Arora M.**, Gujrati, A., Arunkumar S.V.V., Shetty, A., Baral, R., Patel, R., Joshi, D., Patel, H., Pathak, B., Jayappa, K.S., Samal, R.N. and Rajawat, A.S., (2019). Coastal sediment dynamics, ecology and detection of coral reef macroalgae from AVIRIS-NG. ***Special Issue Current Science***, 116(7), 1157-1165.
* **Arora, M.**, Gujrati, A., Ray Chaudhury N., Chauhan, P. and Patel, R.C., (2019). Assessment of coral reef thermal stress over India based on Remotely Sensed Sea Surface Temperature. ***Geocarto International***, ISSN: 1010-6049 (print), 1752-0762 (online). doi.org/10.1080/10106049.2019.1624983
* **Arora M.**, Ray Chaudhury N., Gujarati A. and Patel R.C., (2019), A study on bleaching stress on Indian coral reef regions during Mass Coral Bleaching years using NOAA OISST data. ***Current Science***, 117(2), doi: 10.18520/cs/v117/i2.

## Book Chapters:



* Ray Chaudhury N., **Arora M.** and Gujarati A., (**2017**), **Coral reef macro-algae discrimination, In: Spectrum of India, ISRO, Ahmedabad**, pp. 44-45, ISSN No. 9789382760290.
* Ray Chaudhury, N., **Arora, M.** and Gujrati, A. (**2018**). **Mass coral bleaching responses from Indian coral reef regions as Chapter: 9. In: Climate Change and The Vulnerable Indian Coast, (Ed. Bhatt, J.R. and Ramesh R.) under section: Coastal Sensitivity**, 169-178 pp.

## Scientific/Technical Reports:



* Ray Chaudhury N., **Arora M.** and Gujarati A. (**2017**), Science Results from Phase – 1 Airborne Hyperspectral Campaign with AVIRIS-NG over India. ISRO-JPL/AVIRIS-NG/SR01, 234-238.

## Professional memberships:



Society of Exploration Geophysics (SEG), USA.

Society of Petroleum Geophysicists (SPG), ONGC, INDIA

American Association of Petroleum Geologists (AAPG)

Indian Society of Earthquake Science (ISES)

## Hobbies:



**Listening Music, Gardening, Playing Cricket & Badminton.**

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

Date:

Place: Karnal (Mohit Arora)