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| NIHARIKA SINGH  **Assistant Professor,**  **Department of Geology,**  **Parul University, Vadodara, Gujarat** |
| **EXPERIENCE**  **2021-recent**  **ASSISTANT PROFESSOR**  Parul Institute of Applied Sciences, Parul University, Vadodara  ***Teaching both theory and practical classes in Postgraduate courses in the department of geology.***    **MAY,2019 – JULY,2019**  **SUMMER RESEARCH INTERN**  INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL, MP  ***Guide****- Dr. Arundhuti Ghatak, Assistant Professor, Dept, of Earth and Environmental Science, IISER, Bhopal*  **Topic**- *Geochemistry and petrogenesis of Padu Carbonatite Complex* |
| **EDUCATION** |
| **2018-2020**  **MASTER OF SCIENCE: GEOLOGY,**  COTTON UNIVERSITY- GUWAHATI, ASSAM (INDIA)   * **CPGA:** 8.15/10 (combined) * **Dissertation**: *Petrogenesis of felsic volcanic and plutonic rocks of the Proterozoic Shillong Basin and their tectonic implications (literature review)* |
| **2015-2018**  **BACHELOR OF SCIENCE: GEOLOGY (CORE),**  COTTON UNIVERSITY- GUWAHATI, ASSAM (INDIA)   * **Electives** : Chemistry and Mathematics * **CGPA**: 8.22/10 (combined) |

# ACADMIC PROJECTS

## 2019- 2021

**PETROGENESIS AND GEOCHEMICAL CHARACTERISATION OF FELSIC VOLCANIC AND PLUTONIC ROCKS IN THE PROTEROZOIC SHILLONG BASIN AND THEIR TECTONIC IMPLICATION**

***Guide*** *- Dr. Bibhuti Gogoi, Dept. of Earth Science (Geology), Cotton University, Guwahati*

# FIELD WORK

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| **2020**  ***FIELD AREA*: MARGHERITA, ASSAM, INDIA**  ***Guide*** - Dr. M. Chakravarty & Dr. H.D. Sharma, Dept. of Earth Science (Geology), Cotton University, Guwahati  | Initial exposure to various processes associated with Underground and Opencast mining | Structure, texture and stratigraphical study of coal seams. |
| **2019**  ***FIELD AREA*: PURULIA, WEST BENGAL, INDIA**  ***Guide***- Dr. Amiya Baruah & Dr. Bibhuti Gogoi, Dept. of Earth Science (Geology), Cotton University, Guwahati  | Analyzing deformational history of the area by measuring attitude of various structures in the study area with the help of Clinometer | Stress analysis, Mapping of Calc-silicate belt | Petrography, Process of evolution and Texture analysis of rocks in the study area |
| **2018**  ***FIELD AREA*: SIKKIM, INDIA**  ***Guide***- Dr. Amiya Baruah & Dr. Bibhuti Gogoi, Dept. of Earth Science (Geology), Cotton University, Guwahati  | Observation and study of structures, their deformation to define Sikkim Himalayan tectonics | Study of Gondwana coals and Petrogenesis of rocks of Siwaliks and Sikkim Himalayas | Structural delineation major Himalayan thrusts |
| **2017**  ***FIELD AREA*: RI-BHOI, MEGHALAYA, INDIA**  ***Guide***- Dr. P.J. Dutta & Dr. Ananya Gogoi, Dept. of Earth Science (Geology), Cotton University, Guwahati  | Fundamental idea of measuring attitude of geological structures using Brunton and Clinometer | Identification of geological structures in field | Basic ideas to geological mapping |

**PRESENTATIONS**

## 2019

***RAT-HOLE MINING IN MEGHALAYA PLATEAU: ITS CHALLENGES AND POSSIBLE ALTERNATIVE TO TACKLE SOCIO-ECONOMIC DISRUPTIONS AND ENVIRONMENTAL DEGRADATION***

At **Research Conclave-2019** organized by Indian institute of Technology, Guwahati, India

# GEOLOGICAL INSTRUMENTS AND SOFTWARES

* INSTRUMENTS: Microscope, ICP-OES, LA-ICPMS, XRF
* SOFTWARES: ERDAS imagine, ArcGIS (10.2), CorelDraw, LaTeX, MS Office

# SCHOLASTIC ACHIEVEMENT

* University Rank-4 in B.Sc., Cotton University, Guwahati (2018)
* Received “OIL INDIA MERIT SCHOLARSHIP” from OIL, India for securing first division in HSLC & HSSLC

(2013 & 2015)

* Secured All India Rank-4 in International Mathematics Olympiad (2012)

# POSITION OF RESPONSIBILITY

* NAAC coordinator- Parul Institute of Applied Science (2021-current)
* **President** -Geology Club, Cotton University, Guwahati (2019-20)
* **City Representative**, World Youth Council (2019)
* **Committee Head**, Demetrix- Geofest, Cotton University (2017)
* **Head Girl**, DPS, Duliajan, Assam (2014-15)

# EXTRA CURRICULAR ACTIVITIES

* **Change leader (Teacher)** in Teach Your Talent programme for World Youth Council (2019)
* **Official Anchor**, Guwahati International Film Festival (2019)
* Diploma in **Fine Arts & Painting** from Nikhil Bharat Sangeet Samiti, Kolkata (2014)
* **Gold Medal**- National Children Science Congress (2013)
* **Bronze Medal**- CBSE, All India National Table Tennis Championship (2008-10)
* **Gold Medal**- All India Inter-DPS Table Tennis Championship (2006-09)
* **Bronze Medal**- CBSE, All India Swimming Championship (2007)