

# Curriculum Vitae

**Dr. Raju Kalita**

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## Personal Information

- DoB: 28/03/1994
- Nationality: Indian
- Gender: Male
- Marital Status: Single
- Known Languages: English, Assamese (mother tongue), Hindi
- Permanent Address: Tatarkuchi, Rangia-781354, Kamrup(R), Assam, India.

## Academic Qualifications

Examination /Degree	Board / University / Institute	Year of Passing	Subjects	Class / Division	Percentage
10 <sup>th</sup>	SEBA	2010	Eng, Math, Adv Math, Gen Sc, Social Sc, Assamese	First	83.13
12 <sup>th</sup>	AHSEC	2012	Phy, Chem, Math, Bio, Eng, Assamese	Distinction	88.80
B.Sc.	Cotton College, Guwahati	2015	Physics	First	82
M.Sc.	North-Eastern Hill University, Shillong	2017	Physics	First	72.67
Ph.D.	North-Eastern Hill University, Shillong	2023	Physics	-----	-----

## Current Job

- **Post Graduate Teacher** in Physics (April, 2024 - present)  
Confident Academy, Tamulpur, Assam.

## Teaching Experiences

- **Ad-hoc Assistant Profesor** in Physics (Sept - Dec, 2023)  
Bhattadev University, Pathsala, Bajali, Govt. of Assam.

- **Guest Lecturer** in Physics (Aug, 2018 - Jul, 2019)  
Golapara Polytechnic College, Govt. of Assam.
- **Post Graduate Teacher** in Physics (Oct, 2017 - May, 2018)  
Kendriya Vidyalaya Lokra, Govt. of India.

## Project Experiences

- **Team member** from India, project entitled '**Assessment of Climate Change Impact on Meghna Basin**' (Sept, 2023 - Feb, 2024, Agency: **IUCN**, Cost: 10,000 USD)
- **JRF**, project entitled '**Climate change assessment in the selected areas of Meghalaya using meteorological measurements and its impact on water resources**' (Aug, 2019 - Aug, 2022, Agency: **DST**, Cost: 63 Lakhs INR).

## Research

Area of interest: **Atmospheric Physics, Weather Research & Forecasting, Climate Change.**

Computation: **HPC, Linux, WRF model, SDSM, NCL, CDO, R and Fortran, Python** beginner.

## Publications in Journals

1. **R. Kalita**, D. Kalita, and A. Saxena (2024). Future projections of precipitation and temperature extremes at Sohra (Cherrapunji) using Statistical Downscaling Model. **Mausam** 75(1):181-190. (Indexing- SCIE, SCOPUS; IF- 1.4; ISSN- 0252-9416).
2. **R. Kalita**, D. Kalita, and A. Saxena (2023) Trends in Extreme Climate Indices in Cherrapunji for the period 1979 to 2020. **Journal of Earth System Science** 132(2) 74. (Indexing- SCIE, SCOPUS; IF- 2; ISSN- 0253-4126)
3. **R. Kalita**, D. Kalita, Y. Sharma, D. Walia, and A. Saxena (2020). Long-term trend analysis of temperature in Meghalaya. **Hill Geographer** 36(1):31-40. (Indexing- UGC CARE; IF- NA; ISSN- 0970-5023).
4. **R. Kalita**, M. D. Shadap, and A. Saxena (2022). Trend Analysis and Change Point Detection of Diurnal Temperature Range in Shillong City. **Transient** IX:80-89. (Indexing- Google Scholar; IF- NA; ISSN- 2250-0650).
5. D. Kalita, **R. Kalita**, Y. Sharma, and A. Saxena (2021). An experimental study of <sup>93</sup>Nb ion ranges in Makrofol-E detector. In **AIP Conference Proceedings** 2352(1):050005. (Indexing- SCOPUS; IF- NA; ISSN- )
6. D. Kalita, N. Limbu, M. Ram, **R. Kalita**, and A. Saxena (2021). Study of lattice dynamic, electronic and mechanical properties of Half-Heusler RuCrP alloy. **Materials Today Communications** 29:102799. (Indexing- SCIE, SCOPUS; IF- 3.8; ISSN- 2352-4928)

7. D. Kalita, M. Ram, N. Limbu, **R. Kalita**, and Saxena (2022). Prediction of some physical properties in new half Heusler alloy NbAgSi. **Journal of Solid State Chemistry** 310:122999. (Indexing- SCIE, SCOPUS; IF- 3.3; ISSN- 0022-4596)

#### Publications in **Books/Book Chapters**

8. **R. Kalita**, and A. Saxena (2024). Eigen Value Statistics of Long-Term Monthly Average Temperature of Meghalaya, India. **Emerging Trends in Physical Science** p117-124. (ISBN: 978-93-90706-80-8).

#### Presentations in **Conferences/Seminars/Symposia**

1. **R. Kalita** and A. Saxena. *Downscaling of Future Rainfall from CANESM2 Projections in Cherrapunji*. International Symposium, **INTROMET 2021**, Cochin University of Science and Technology (CUSAT), Nov 23-26, 2021.
2. **R. Kalita** and A. Saxena. *Analysis of Trend in Extreme Climate Indices in Cherrapunji*. National Symposium, **TROPMET 2020**, North-Eastern Space Application Center, Shillong, Meghalaya, Dec 14-17, 2020. (**Awarded Best Oral Presentation**)
3. **R. Kalita** and A. Saxena. *Grid-wise Correlation of Long Term Monthly Average Temperature of Meghalaya*. **International Virtual Conference on Earth's Changing Climate: Past, Present & Future**, the Society of Earth Scientists, Oct 15-17, 2020.
4. **R. Kalita**, A. Saxena et al. *Trend Analysis of Climate Indices for Daily Temperature and Precipitation Record in Tura*. **International Web Conference in Recent Advances on Science**, Don Bosco College, Tura, July 30-31, 2020.
5. **R. Kalita** and A. Saxena. *Precipitation Record Follows a Mixed Weibull Distribution in Meghalaya*. **National Conference on Recent Advances in Science and Technology**, Assam Science and Technology University, Guwahati, Aug 17-19, 2020.

#### Training Programme/Workshop

1. National Training Workshop on *Fundamentals of Data Assimilation*, 09-21 Sept 2022, at **Indian Institute of Tropical Meteorology**, Pune.
2. Training on *Rainfall Data Analysis Using Different Packages of R-Software*, 12-22 Jul 2021, at **Centre for Water Resources Development and Management**, Kozhikode, Kerala.
3. Training course on *Basic Training Course on Satellite Meteorology and its Applications in Numerical Weather Prediction*, 05-09 Oct 2020 at **North-Eastern Space Application Center**, Meghalaya.

4. National Seminar cum Exhibition on *Earthquake Hazards: Education, Perception, Mitigation and Management*, 06-08 Feb 2020 at **North-Eastern Hill University**, Shillong, Meghalaya.
5. Faculty Development programme on *Impact of Climate Change on Water Resources*, 14-25 Oct 2019 at **North-Eastern Regional Institute of Science and Technology**, Nirijuli, Arunachal Pradesh.

## **Awards/Fellowships**

1. **JRF** (project) by DST Climate Change Programme (2019-22)
2. **Best paper award** by Indian Meteorological Society (2020)

## **Reference**

Dr. Atul Saxena (Retd.)  
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