

## **Lieutenant Dr. RINKU MONI KALITA**

C/O Jadab Chandra Kalita, Vill- Saportari, P.O. - Natun Jarabari, P.S. - Chhaygaon  
Dist. - Kamrup Assam-781124



**Current Address:** Life Science Division, Institute of Advanced Study in Science and Technology [IASST], Paschim Boragaon, Garchuk, Guwahati – 781035

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### **OBJECTIVE**

Seeking a position in the organization that provides me ample opportunity to explore & excel in the field of **Teaching and Research** while carving out the niche for personal, professional as well as organizational goals **in the field of Teaching and Research.**

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### **SUMMARY OF SKILLS**

- Qualified the N.E. State Eligibility Test (SET) for Lectureship in **Life Science** (Category- General) held on 12/06/2011.
- Qualified **Master in Botany (specialization-Plant Ecology) from Gauhati University**; having an inborn quantitative aptitude & determination to carve a successful career.
- Successfully completed the twelve (12) week long course on “ **Geospatial Technologies and Applications**” conducted by National Remote Sensing Centre (NRSC) Hyderabad from June 3, 2013 to August 23, 2013.
- **Outstanding communication skills**, coupled with exceptional presentation skills with the ability to perform well.

### **Technical Skills**

- MS Office, SPSS, ORIGIN, ERDAS, Arc GIS and Internet Applications

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### **EDUCATIONAL CREDENTIALS**

#### **Post Doctoral 2017**

SERB National Post-Doctoral Fellowship [PDF/2016/002926]

#### **Ph.D 2015**

Assam University, Silchar

**Thesis Title:** “*Carbon storage and sequestration in tea agroforestry system in Barak Valley, Assam*”

#### **Master in Botany 2009**

Gauhati University, Guwahati; 65.9%

#### **Post Graduate Diploma in Computer Application 2009**

Institute of Distance and Open Learning (IDOL); Gauhati University, Guwahati; 70.2%

#### **B. Sc (Honors) Botany 2007**

Dakshin Kamrup College, Mirza (G.U); 61%

#### **Intermediate 2004**

Dakshin Kamrup College (AHSEC), Mirza; 57.6%

#### **Matriculation 2002**

Gumi High School (SEBA); 76.1%

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## Research Experience

- Twelve years Research experience in the field of Forest and Agricultural Ecology
- Worked as SRF in CSIR project during 2013 -2016

## Award

- SERB National Post-Doctoral Fellowship [PDF/2016/002926]
- Best Poster award in the Tropical Ecology Congress 2014 held at Jawaharlal Nehru University, New Delhi during 10-12<sup>th</sup> December 2014
- Best Poster award in the National conference on sustainable development of environmental systems (NCOSDOES) held at Indian Institute of Technology Guwahati during 20-21st June 2014.

## Publications:

- Kalita, R. M., A. K. Das and A. J. Nath (2014) Comparative study on growth performance of two shade trees in Tea Agroforestry system. *Journal of Environmental Biology* 35: 699-702.
- Kalita, R. M., A. K. Das & A. J. Nath (2015) Allometric equations for estimating above and belowground biomass in Tea (*Camellia sinensis* (L.) O. Kuntze) agroforestry system of Barak Valley, Assam, northeast India. *Biomass and Bioenergy* 83: 42-49.
- Kalita, R. M., A. K. Das & A. J. Nath (2016) Assessment of soil organic carbon stock under Tea agroforestry system in Barak Valley, North East India. *International Journal of Ecology and Environmental Sciences* 42 (2):175-182.
- Kalita, R. M., A. K. Das & A. J. Nath (2016) Carbon stock and sequestration potential in biomass of Tea agroforestry system in Barak Valley, Assam, North East India. *International Journal of Ecology and Environmental Sciences* 42 (S):107-114.
- Kalita, R. M., A. K. Das & A. J. Nath. (2019) Role of smallholder tea growers in carbon sink management. *Current Science* 116 (9):1560-1566.
- Kalita, R. M., A. K. Das, G. W. Sileshi & A. J. Nath. (2020) Ecosystem carbon stocks in different aged tea agroforestry systems: Implications for regional ecosystem management. *Tropical Ecology* 61: 203-214.
- Kalita, R. M., S. Nandy, R. Srinet, A. J. Nath & A. K. Das. (2022) Mapping the spatial distribution of aboveground biomass of tea agroforestry systems using random forest algorithm in Barak valley, Northeast India. *Agroforestry systems* 96: 1175-1188.

## Book Chapters:

- Kalita, R. M., A. K. Das & A. J. Nath. (2020) **Assessment of Soil Organic Carbon and Carbon Fractions in smallholder Tea Agroforestry System**, In: Department of Botany, University of Science and Technology Meghalaya 2020 Conservation and Management of Bio-resources for Rural Development [ISBN 978-93-87275-47-8].
- Kalita, R. M., Borogayary, B., A. K. Das & A. J. Nath (2019) **Community Based Management of Smallholder Tea Plantation With Biodiversity Conservation And Livelihood Sustainability: A Case Study From Barak Valley, Assam, North East India**, In: A.K. Das, A. Gupta, S. Gupta & H. Singha (Eds.) 2019 Recent Research in Ethnobiology & Biodiversity conservation in India [ISBN978-81-936364-6-6].
- Kalita, R. M., A. K. Das & A. J. Nath. (2018) **Comparative Assessment of Biomass Carbon Stock Potential in Two Different Plantation Systems in Barak Valley, North East India**, In: S.K. Borthakur, A. Bawri & N. Nath (Eds.) 2018 Advances in Botanical Research in North East India [ISBN978-93-86302-52-6].
- Kalita, R. M., Rahman, M., Borogayary, B., A. K. Das & A. J. Nath (2016) **Carbon storage potential of Acacia plantation: A viable option for climate change mitigation**. [Conference paper for IC3MTA 2016: ISBN978-93-81693-07-2]

## Attended Seminars/ Training programs:

- Participated in the ASTEC sponsored National Seminar on “**Advances in Biodiversity and Traditional Knowledge for Sustainable Development: Special Reference to N.E. India**” held at Biswanath College on 10<sup>th</sup> & 10<sup>th</sup> August 2020.
- Presented a paper in “**Assam Botany Congress (ABC-01) & International Conference on Plant Science**” held at Gauhati University, Guwahati during 4<sup>th</sup> - 6<sup>th</sup> February 2019.
- Successfully completed a 5-day workshop on ‘**Plant Ecology and Ecophysiology**’, jointly coordinated by the Indian Institute of Science, the National Centre for Biological Sciences, Indian Institute of Science Education and Research, Pune and the University of Leeds from 17-22 September 2018 held at Sirsi, Karnataka.
- Presented a paper in “**International Symposium on Biodiversity and Biobanking (BIODIVERSE 2018)**” held at Indian Institute of Technology Guwahati during 27-29<sup>th</sup> January 2018.
- Participated in the DSIR-PRISM sponsored Exhibition and Workshop on “**Innovation and Entrepreneurship**” held at Indian Institute of Technology Guwahati on 12<sup>th</sup> January 2018.
- Presented a paper in “**National Seminar on Prospects and Challenges of Plant Science Research in India**” organized by the Department of Botany, Gauhati University during November 25-26, 2017.
- Presented a paper in workshop on “**Translational Research on Natural Products for Therapeutic Uses (TRNPT 2017)**” held at Institute of Advanced Study in Science & Technology (IASST) on 21<sup>th</sup> November 2017.
- Presented a paper in “**National Seminar on Climate Change and Society (CCS 2017)**” organized by the Department of Environmental Science, Tezpur University during February 24-25, 2017.
- Presented a paper in “**National Seminar on Ethnobiology and Traditional Knowledge in Biodiversity Conservation- Approaches and Dimensions (ETKBC)**” organized by the Department of Ecology and Environmental Science, Assam University, Silchar during February 2-3, 2017.
- Participated in the “**Workshop on Data Analysis for Biological Sciences**” conducted by Indian Statistical Institute, Kolkata held at Department of Statistics, Assam University, Silchar during March 28-30, 2016.

- Presented a paper in the National Conference on CHARTING AND MANAGING BIODIVERSITY: PERCEPTIONS AND PRIORITIES [CMBPP-2016] held at Assam University, Silchar during March 8-9, 2016.
- Participated in the workshop “A DAY WITH TEA” organized by Department of Ecology and Environmental Science, Assam University, Silchar on February 10<sup>th</sup> 2016.
- Attended the short term course on “**Soil Health and Food Security**” under the sponsorship of **TEQIP-II** held from 07.12.2015 to 11.12.2015 at IIT Delhi.
- Presented a Poster entitled “**Carbon stock and sequestration potential in biomass of Tea agroforestry system in Barak Valley, Assam, North East India**” in the Tropical Ecology Congress 2014 held at Jawaharlal Nehru University, New Delhi during 10-12<sup>th</sup> December 2014
- Presented a Poster entitled “**Biomass carbon storage and sequestration potential of shade trees of Tea agroforestry: An approach towards climate change mitigation**” in the National conference on sustainable development of environmental systems (NCOSDOES) held at Indian Institute of Technology Guwahati during 20-21<sup>st</sup> June 2014.
- Abstract titled “**Carbon storage potential of Tea agroforestry system in Barak Valley, Assam, North East india**” published in the **World Congress on Agroforestry 2014 Compendium**.
- Successfully completed the twelve (12) week long course on “ **Geospatial Technologies and Applications**” conducted by National Remote Sensing Centre (NRSC) Hyderabad from June 3, 2013 to August 23, 2013.
- Participated in “**International Conference** on Biodiversity Conservation and Environmental Health” organized by Department of Life Science and Bioinformatics, Assam University, Silchar on March 16-17, 2012.
- Presented a paper in the **International Conference** on Global Ecosystems, Biodiversity and Environmental Sustainability in the 21<sup>st</sup> Century (ICGEBEnS-2012) held at Assam University, Silchar during February 15-17, 2012.
- Participated (oral presentation) in “Young Ecologists Talk and Interact (YETI) 2011” held at IIT Guwahati from 13<sup>th</sup> to 15<sup>th</sup> Dec.2011.
- Participated in “STUDENT CONFERENCE ON CONSERVATION SCIENCE (SCCS)” held at Indian Institute of Science, Bangalore during 14<sup>th</sup> -16<sup>th</sup> September, 2011.
- Successfully completed the 16<sup>th</sup> UGC-NRCBS WINTER SCHOOL on "RECENT TRENDS IN APPLIED ECOLOGY “from 25<sup>th</sup> August to 8<sup>th</sup> September, 2011 held at Madurai Kamraj University, Madurai.
- Participated in the workshop “DATA ANALYSIS USING MICROSOFT EXCEL FOR YOUNG RESEARCHERS” organized by Department of M.B.A. Assam University, Silchar during April 29-30,2011.
- Participated in Seminar cum Workshop on “Remote Sensing And GIS Applications” Organized by Department of Ecology and Environmental Science, Assam University, Silchar during February 7-13,2011
- Participated in one day workshop ”Consultation for Preparation of State Climate Change Action Plan ”organized by ASTEC, Guwahati and Dept. of Ecology and Environmental Science, Assam University, Silchar held on December 17,2010.
- Successfully completed the four week long certificate course on “Concept of Geographic Information System(GIS) and Global Positioning System(GPS)”conducted by Department of Geology, Cotton College from November 15 to December 11,2010.
- Participated in “Workshop on Techniques in Biodiversity Researches “organized by Department of Ecology and Environmental Science, Assam University, Silchar on March 27, 2010.

- Participated in “**National Seminar** on Biodiversity Conservation (Forest and Land Resource Management)” organized by Department of Ecology and Environmental Science, Assam University, Silchar on March 4-5, 2010.

### **Teaching and other Experience:**

- 2.5 Years Teaching Experience in Biswanath College, Chariali [From 25.01.2020 till date]
- 6 Months Teaching Experience in The Assam Royal Global University [From 15.07.2019 to 06.01.2020]
- 1(One) year Teaching Experience in degree college [From 02.02.2016 to 31.03.2017]
- Serving as Care Taker Officer (CTO) of NCC Biswanath College Unit, 5 Assam Bn. NCC Tezpur since August-2020
- Served as External Evaluator during GUNOTSAV 2022
- Served as a Master Trainer for Re-SVAYEM Scheme 2021
- Organized International Webinar on “**Genomics: Revolutionizing Agricultural and Evolutionary Research**” held online on 17<sup>th</sup> September 2020.
- Organized one day workshop on “**Translational Research on Natural Products for Therapeutic Uses (TRNPT 2017)**” held at Institute of Advanced Study in Science & Technology (IASST) on 21<sup>th</sup> November 2017.
- **FDP- 1:** MHRD, IIC Online sessions from 28/4/2020 to 20/05/2020.
- **FDP-2 :** Successfully completed Two Weeks Faculty Development Programme on “*Managing online classes and co-creating MOOCs: 2.0*” Conducted by Ramanujan College; Delhi University from 18/05/2020 to 03/06/2020.
- **FDP-3 :** Successfully completed a 4 Week Induction / Orientation Programme for “*Faculty in Universities / Colleges / Institutions of Higher Education*” Conducted by Ramanujan College; Delhi University from 04/06/2020 to 01/07/2020.
- **Refresher Course :** Successfully completed a 2 Week Science Academies’ Virtual Refresher Course Organized by Department of Botany, Punjab University, Chandigarh, India from 02/04/2022 to 18/04/2022.
- Successfully completed PRCN course (PRCN/SD-171, DC- 43, Navy-06, AF-19) at OTA, Kamptee during 3th August to 26<sup>th</sup> October 2022 and commissioned as Lieutenant of NCC under Indian Army.

**Languages Known:** Assamese, English, Hindi and Bengali

**References:** Available on Request