ARUP JYOTI BORAH (CV)

Past Affiliation
Assistant Professor (Guest)
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Date of Birth: 14th October, 1988

PROFILE SUMMARY

Enthusiastic, dynamic with a positive can-do attitude academic professional. Proven success in strategy and curriculum development, event organizing and management. A compassionate person thrive to render service towards society upliftment and in reforming nature

EDUCATIONS

Year	Degree/ Certificates		Institute/ Board	Division
2018	PhD	Center for Energy (Interdisciplinary Centre working closely with Dept. of Biotechnology)	*Indian Institute of Technology Guwahati, India*	First Class
2011 2020 2021	M. Sc	1. Applied Microbiology 2. Geo-informatics 3. Environmental Science	*VIT University, Vellore, India* *Annamalai University (DDE),* *IGNOU, Delhi*	First Class First Class Conti…
2011 2020	PG Diploma	1. Intellectual property Rights (IPR) 2. Sustainable rural development	*Annamalai University ofDistance Education, Chidambaram, India* *NIRD & PR, Hyderabad(Ongoing)*	First Class First Conti
2009	B. Sc	Biotechnology with Microbiology & Chemistry	*M.S. Ramaiah College,Bangalore, India*	First Class

OTHER CERTIFICATE COURSES from NPTEL & IIRS

Energy	• Hydrogen Energy: Production, Storage, Transportation and Safety, *IIT Bombay, 2022* • Biomass conversion and biorefinery, *IIT Guwahati, 2023*
WasteManagement	• Plastic Waste management, *IIT Kharagpur, 2019* • Electronic waste management- Issuesand challenges. *IIT Kharagpur, 2018.*
PatentCourse	• Patent drafting for Beginners, *IIT Madras, 2018.* • Patent Search for Engineers and Lawyers, *IIT Kharagpur, 2018*
GIS & RS & OutreachProgram	• Remote Sensing and GIS for rural development, *IIT Bombay, 2023* • Hyperspectral remote sensing and its applications. **IIRS Dehradun, 2019.** • Introduction to Geographic informationsystems, *IIT Roorkee, 2018*

NB: *RA= result awaited, NA= Not applicable

TEACHING EXPERIENCES = 3 years

Assam Don Bosco University, Assam
May2022-present
Assistant Professor (Grade 1), Department of Botany
Highlights: Teaching, Service learning coordinator, Supervising Master Dissertations

Tezpur Central University
Aug2020- May2022
Assistant professor (Guest), Department of molecular biology and Biotechnology
Highlights: Teaching

NIT Arunachal Pradesh
Aug2019 - Jul, 2020
Assistant Professor (Ad hoc), Department of Biotechnology
Highlights: Teaching, lab set up, TEQIP Data Entry, Research Guidance to students

Courses taught in NIT Arunachal Pradesh	Courses taught in Tezpur University
BT 405: Molecular Biology (UG)	BI 435: Fermentation and Bioprocess Engineering (PG)
BT 405: Molecular Biology (Lab, UG)	BI 439: Fermentation and Bioprocess Engineering (Lab, PG)
BT 503: Enzyme Technology (UG)	BT 461: Bioprocess Engineering and Technology (PG)
BT 702: Fermentation technology (UG)	BT 473: Bioprocess Engineering and Technology (Lab, PG)
BT 702: Fermentation technology (LAB, UG)	**Courses taught in Assam Don Bosco University**
BT 602: Bio separation technology (UG)	Environmental biotechnology
BT 502: Bioinformatics (UG)	Molecular techniques, biochemical and bioinformatics
	Plant biotechnology and metabolism

ACADEMIC ACHIEVEMENT

2023	Receive ***Pre incubation grant*** under Northeast Entrepreneurship Development Programme (NEEDP), a joint initiative between the North Eastern Council and IIM Calcutta Innovation Park.
2022	Winner, ***Grass-root Innovator*** CATALYSETECH NE Chapter-2022, September. Organized by Atal Incubation Center-SELCO Foundation. Prize Money = 70000 (first phase)
2022	UK-India research collaboration as ***Subject Lead*** **-Waste to Circular economy** Indian Context sponsored by UK Research and Innovation and Energy and Bioproduct research Institute (EBRI).
2021	ISEES ***Young Scientist Award -2021*** International Society for Energy, Environment and Sustainability.
2020	Winner, Idea exposition on ***Innovation in Agriculture and Sustainability*** organized by BIRAC regional Centre (BRIC) & IKP India.
2018	Cover page, Bioresource technology, Borah, Arup Jyoti, et al. "Mechanistic investigations in biobutanol synthesis via ultrasound-assisted ABE fermentation using mixed feedstock of invasive weeds." Bioresource technology 272 (2019): 389-397.
2017	Recipient of ***7thNational Award or Technology Innovation***, India Petrochemicals and Downstream Processing Industry, Ministry of Chemicals and fertilizers, Govt. of India.
2016	***BEST Poster Award*** in International Conference on Current Trends in Biotechnology, organized by Biotech Research Society, India (BRSI).
2016	***Best Oral Presenter Award*** in Asia Pacific congress on Catalysis, Institute of Chemical Technology, Mumbai, 2017
	National Eligibility Test
2014	***(ICAR-NET) in Agriculture microbiology*** conducted by Agriculture Scientist Research Board (ASRB) and Indian Council of Agricultural Research (ICAR), New Delhi recognized jointly by UGC and CSIR, GOI. for
2013	Qualified North East State Level Eligibility Test under UGC, India. ***(NE-SLET),*** **in** ***Life Science***
2011 & 2012	Graduate Aptitude Test in Engineering ***(GATE)*****,** ***Biotechnology*** a National Level Examination

RESEARCH INTEREST

- Biomass valorization to value added product [Biofuels (Bioethanol & Biobutanol), Biopolymer (PHB), Xylitol and 1,3 Propanediol etc.], Biopesticides (Silica nanoparticle synthesis)
- Microbial, enzyme and fermentation technology (focus on the development of sustainable bioprocesses and products)
- Secondary metabolite &Lignin extraction and its valorization
- Climate change, Circular Bioeconomy
- Bioassessment and supply chain management through geospatial technology

JOURNAL AFFILIATIONS

Reviewer, Bioresource Technology, Peer reviewed Journal, Elsevier
Reviewer, Process Biochemistry, Peer reviewed Journal, Elsevier
Reviewer, Ultrasonics Sonochemistry, Peer reviewed Journal, Elsevier

PROJECTS

As CO-PI	**Designing of efficient solar powered weaving technologies for textile industry upgradation in northeast region.**	***MSME , India***	**23.56 Lakhs**	2021 Proposed
COLLABORATION PROJECT WITH PROF. D.C BARUAH	**1. Development of a Smart Platform for promotion of Renewable Energy in Assam** **2. Valorization of Solid waste into circular economy.**	***Dept of Energy, Tezpur University***		Ongoing
SPONSORED PROJECT	**An IoT embedded Agri-Rover for precision and sustainable Agriculture**	***Selco foundation***		Ongoing
PREINCUBATION GRANT	**An IOT enable smart device for digital eye strain**	***North east council & IIM Kolkata***		Ongoing

MASTER THESIS GUIDED AND YEAR OF COMPLETION

1.	**Zainab Fatima (**DU2021MSC0312**)**	**Comparative analysis of different lignocellulosic plant biomass for paper pulp making**	**2023**
2.	**Giftson Kholar (**DU2021MSC0145**)**	**Comparative analysis of food adjuvant "Khar" obtained from Banana, Bamboo, Papaya and Sesame.**	**2023**
3.	**Jaksil M Sangma (**DU2021MSC0148**)**	**Phytochemical estimation of *terminalia arjuna*, *Citrus x sinesis, Clitoria ternateae, Limonia acidissima***	**2023**
4.	**Mongera J.D Sangma (**DU2021MSC0158**)**	**Biochemcal estimation of the selected local rice varieties (oryza sativa) of Garo hills, Meghalaya India.**	**2023**
5.	**Karan Lyngdoh (**DU2021MSC0221**)**	**Studying the effect of storage and shelf life on the physiological, microbiological and antioxidant properties of alcoholic beverages.**	**2023**
6.	**Srijan Saikia (**DU2021MSC0310**)**	**Identification and characterization of suberin pathway genes in camellia sinensis: a study pertaining to screening of drought tolerant clones**	**2023**
7.	**Parinita Das (**DU2021MSC0326**)**	**Phytochemical analysis and antibacterial activity of extracted essential oil from *Vitex negundo, Hibiscus rosa sinesis, Ipomea Cairia***	**2023**
8.	**Dilje Krebea Marak (**DU2021MSC0094**)**	**Study of phytochemical screening and antioxidant activities of three new silkworm host plants**	**2023**
9.	**Ronaldo Rabha (**DU2021MSC0348**)**	**Assessment of multiple invasive grasses as potential feedstock for bioenergy production**	**2023**
As Co-Supervisor Tezpur Central University			
10.	**Prabar Das (**ENE20021**)**	**Sustainable Management of Municipal Solid Waste: A Perspective Research Study for Tezpur Municipality Board**	**2022**

RESEARCH WORKS, EMPLOYMENY AND INTERNSHIP

IIT Guwahati
Centre for Energy ,
India Jan 2013- Nov 2018

PhD Scholar (Full time) Thesis Work

Title 1: Synthesis of alcoholic biofuels from multiple invasive weeds: process design, optimization and intensification

Supervisor*: **Prof. V.S Moholkar*** **(Centre for Energy) and *Prof. Arun Goyal* (Department of Biotechnology)**

Highlights:

- Biochemical Assessment
- Pretreatment studies and its optimizations delignification and enzymatic hydrolysis, kinetics and structure elucidation
- Comparative studies in sonication with conventional process.
- Fermentation technology (SHF, SSF,SHCF)
- Fitting of fermentation profiles to biokinetic model Genetic Algorithm

Additional Research Experience

Title 2: Ultrasound assisted enzymatic desulfurization ofliquid fuels using horseradish peroxidase.

Supervisor: ***Prof. V.S. Moholkar*** **and *Prof. Pranab Goswami* (Department of Biotechnology)**

- Desulfurization of liquid fuel using dibenzothiophene
- Mechanistic insight into ultrasound-assisted enzymatic treatment
- Conformational changes in 2^{o} enzyme structure induced bysonication.

Title 3: Ultrasound-assisted extraction and characterization of biopolymer polyhydroxybutyrate (PHB) from invasive weeds.

Supervisor: ***Prof. V.S. Moholkar***

- Synthesis of PHB polymer from *P. hysterophorus* and *E. crassipes*
- Fermentation by *Ralstonia eutropha.*
- Characterization of synthesized polymer

Title 4: Dioxane-based extraction process for production of highquality lignin.

Supervisor: ***Prof. V.S. Moholkar***

- Lignin extraction from Debarked bamboo waste
- Pyrolytic oil and char were also obtained through pyrolysis

Title 5: Cytometry based correlation of Genomic content withphenotypic characters of plant cells.

Supervisor: ***Prof. V.S. Moholkar*** **and *Prof. Latha Rangan* (Dept of Biotech)**

- Standardizing the protocol for genome size estimation
- Relationship between genome size and cell size
- Correlation between stomata and cellulose content

Nesac, Shillong
Mar-May-2014

As internee

Title 6: Study the geographic distribution of multiple invasive weeds in Assam.

Supervisor: ***Dr. Suchitra Devi***

- Digitization, layer creations and buffer analysis, geo-referencing, supervised and unsupervised classification
- QGIS, ERDAS, MAXENT modeling

IIT Guwahati *Centre for Energy* *Sep – Dec 2012*	**As Junior Research Fellow** **Title: A novel energy efficient hydrodynamic cavitation techniquefoe extraction of oil from micro-algae for bio-diesel production** Supervisor: **Prof. V.V. Goud** Highlights: • Microlgal culvation and maintenance (Scenedesmus quadricoda, Cholera) • Physical and media optimization • Oil extraction and bioethanol production of spent biomass.
IIT Guwahati *Department of Biotechnology, India* *Dec – Aug 2012*	**As Junior Research Fellow** **Title: Cytoskeletal organization and migration potential ofmesenchymal stem cell during different stages of differentiation** Supervisor**: *Prof. B.G Jaganathan* (Department of Biotechnology)** Highlights: • Stem cell culture and differentiation, • RNA & DNA isolation, Cloning
CMRI, CSIR Lab *Env Division Digwadih,Dhanbad, India* *Jan -May, 2011*	**Master Dissertation Work** **Title: Synthesis of silica nanoparticles from invasive biomass its optimization, characterization and application in agricultural pest control** Supervisor: ***Prof. L.C Ram*** Highlights: • Synthesis of silica from six invasive biomasses from modified Sol-gel method • Method optimization and silica characterization • Silica application to control agricultural pest
TezpurUniversity *Dept ofEnergy Napaam, Tezpur, India May - July, 2010*	**Summer internee** Title**: Production of biodiesel from *Kayea assamica*.** Supervisor: ***Prof. Rupam Kataky*** Highlights: • Synthesis of bio-oil from *kayea assamica* seed mixture by hexanesolvent extraction • Optimization of Trans esterification process for better biodiesel properties. • Characterization of biodiesel properties

ADMINISTRATIVE AND MANAGEMENT EXPERIENCES = 3 years

***STUDENT CONVENER*: RESEARCH CONCLAVE 2017 (16-*19 MAR2017*)**
GENERAL SECRETARY*, STUDENTS" ACADEMIC BOARD, IIT Guwahati *JULY 2016- JULY 2017
CONVENER: RESEARCH CONCLAVE 2015 (2nd Edition) MAR 16-19, 2016
DOCTORAL REPRESENTATIVE*: STUDENTS' ACADEMIC BOARD IIT Guwahati *MAY2015 –MAY 2016
FOUNDER CONVENER: RESEARCH CONCLAVE 2015 (Ist Edition) MAR 12-15, 2015
CPPC STUDENT EXECUTIVE*: CENTRE FOR ENERGY, IIT Ghy *OCT 2014-APR2015

LIST OF PUBLICATIONS (Citation till date =231)

Published in Peer Reviewed International Journals

***Arup Jyoti Borah**, P. K Dikshit M Doloi V.S. Moholkar (**2021**)*	Extraction and Characterization of Lignin from Waste Invasive Weeds with Dioxane–based Process	ISSN 2190-6823 [EMID:6cb3d3714652bf95]	**Biomass Conversion and Biorefinery (IF =4.97)**
***Arup Jyoti Borah**, R. Malani, A. Goyal, V.S. Moholkar (**2021**)*	Kinetic modeling of dilute acid hydrolysis of various weedy invasive species as feedstock for biofuel production. (manuscript submitted)	communicated	**I & EC research (IF=3.72l)**
***Arup Jyoti Borah**, K. Roy, A. Goyal, V.S. Moholkar. (**2019**).*	Mechanistic investigations in biobutanol synthesis via ultrasound–assisted abe fermentation using mixed feedstock of invasive weeds.	ISSN 0960-8524 272, 389-397	**Bioresource Technology (*IF = 9.62*)**
*M Saha, P B Saynik, **Arup Jyoti Borah**, R Malani, P Arya, Shivangi, VS Moholkar (**2019**)*	*Dioxane-based extraction process for production of high-quality lignin*	ISSN 2589-014X 5, 206-211	***Bioresource Technology reports**.(IF= 4.41)*
***Arup Jyoti Borah**, M. Agarwal, A. Goyal, V.S. Moholkar. (**2019**)*	Physical insights ofultrasound-assisted ethanol production from composite feedstock of invasive weeds	ISSN 1350-4177 51, 378-385	***Ultrasonics Sonochemistry* (*IF= 7.49*)**
*S Pradhan, **Arup Jyoti Borah,** M Agarwal, M Poudyal, A Goyal, VS Moholkar. (**2017**)*	*Microbial production, ultrasound-assisted extraction and characterization of biopolymer polyhydroxybutyrate (PHB) from terrestrial (P. hysterophorus) and aquatic (E. crassipes) invasive weeds*	ISSN 0960-8524 242, 304–310	***Bioresoure technology**, (IF =9.62)*
***Arup Jyoti Borah**, S Singh, A Goyal, VS Moholkar. (**2016**)*	An Assessment of Invasive Weeds as Multiple Feedstocks for Biofuels Production	ISSN 2046-2069 52, 47151-47163	***RSC Advances,. (IF= 3.37)***
*M Agarwal, PK Dikshit, JB Bhasarkar, **Arup Jyoti Bora**h, VS Moholkar. **(2016)***	*Physical insight into ultrasound-assisted biodesulfurization using free and immobilizedcells of Rhodococcus rhodochrous MTCC 3552*	ISSN 1385-8947 295, 254- 267	***Chemical Engineering Journal (IF =13.27)***
***Arup Jyoti Borah**, M Agarwal, M Poudyal, A Goyal, VS Moholkar. (**2016**)*	Mechanistic investigation in ultrasound induced enhancement of enzymatic hydrolysis of invasive biomass species	ISSN 0960-8524 213, 342-349	***Bioresource Technology (IF = 9.62)***
*J Bhasarkar, **Arup Jyoti Borah,** P Goswami, VS Moholkar. (**2015**)*	Mechanistic analysis of ultrasound assisted enzymatic desulfurization of liquid fuels using horseradish peroxidase.	ISSN 0960-8524 196, 88-98	**Bioresource technology (*IF = 9.62*)**

Book chapter

P Thornley, B Rathi, ***Arup Jyoti Borah****, B Saha, J Adams, M Hiloidhari, (2022)*	*Bioenergy Technologies for a Net Zero Transition: Outcomes of UK-India Bioenergy Research Scoping*	ISBN 9781854498106	***Supergen Bioenergy Hub***
V. S. Moholkar, P. K. Dikshit, S. Chakma, ***, Arup Jyoti Borah,*** *J.Bhasarkar* ***(2017)***	*Mechanistic issues of Sono-Biodegradation*.	ISBN1863-55208, 74-118.	***Biodegradation andBioremediation, Env. Sci. &Engg. Vol. 8.Stadium Press LLC***
D. Bora, L. Barbora, ***Arup Jyoti Borah,*** *P. Mahanta* ***(2021)***	*A Comparative Assessment of Biogas Upgradation Techniques and Its Utilization as an Alternative Fuel in Internal Combustion Engines*	ISBN 978- 981-15-0418-1, 95-115	***Springer Nature Singapore***

Conference Presentations (Poster Presentation)

AJ Borah, M Saha, A Goyal, V.S Moholkar	*Extraction & Characterisation of lignin and Biofuel production from composite invasive biomass*	Research Conclave, IIT Guwahati, (342) Mar 18-11, **2018**.
AJ Borah, A Goyal, R malani, VS Moholkar	*Kinetic modelling of dilute acid hydrolysis of various invasive species for biofuel production*	Asia pacific congress on catalysis organized by ICT, Mumbai. Catalysis Society of India. India Jan 17-21 **2017.**
AJ Borah, A Goyal, VS Moholkar	*An assessment of multiple feedstock of invasive and noxious weeds as a candidate for Bioethanol production*	International conference on Current trends in Biotechnology. (ICCB-2016) organized at VIT, Vellore, & Biotech research Society India. December 8-10th **2016**.
AJ Borah, M Agarwal, M Poudyal, A Goyal, VS Moholkar	*Mechanistic investigation in ultrasound induced enhancement of enzymatic hydrolysis of invasive biomass species*.	International conference on New Horizon in Biotechnology. (NHBT-2015, Trivandrum, India) Nov22-25, **2015**.
AJ Borah, A Goyal, VS Moholkar	*Establishing invasive weeds as a new feedstock for biorefinery: From Pain to Gain*	Indo-US Conference on Advanced Lignocellulosic Biofuels (Indo-US CALB- **2014**)
AJ Borah, A Goyal, VS Moholkar	*Comparative assessment of various biomass as potentialfeedstock for biofuel production*	International conference on Harnessing Natural resources for Sustainable development: Global trend. Jan29- 31th, **2014**.
AJ Borah, Selvi VA.	*Synthesis of Silica nanoparticles from biomass its characterization and application in agricultural pest control.* (BPP96, pg-292	18th International conference Perspective and challenges in Chemical and Biological Sciences innovation. Post ISCBC-2012, IASST, Boragaon,India) Jan 30, **2012**

Oral Presentation

A.j Borah, M Saha, A Goyal, VS Moholkar	*Ultrasound enhanced bioconversion of total reducing sugar obtained from mixed Invasive Composite biomass to ABE fermentation: A mechanistic investigation*	Research Conclave, IIT Guwahati, (97-98) Mar 18-11, **2018**.
A.J Borah, A Goyal, VS Moholkar	*Comparative insight of ultrasound induced enhancement of enzymatic hydrolysis of invasive biomass species*	Asia pacific congress on catalysis organized by ICT, Mumbai. Catalysis Society of India. India Jan

	model and ITC study in the Bio catalysis.	17-21 **2017**.
R Dutta**, A.J Borah**, A.S Tamuli	*Assessment of various produced water treatment methods applied oil fields of Assam (ICWM-WWWT-27), 153*	International conference on waste management. (Recycle-16) IIT Guwahati, India. April 1-2, **2016**.

Patent

Arup Jyoti Borah & Rajjul Hussain	*IOT based Smart Device for Computer vision syndrome*	**Application :**202331036769 **Date of filling**: 23.05.2023

Training Programme

Title	Venue	Duration
Carbon Credits from Waste Management Projects"	National Productivity Council, Webiner Certificate No :N698P14C692901W497	**15 Jun 2021**
Entrepreneurship Development Programme, IIE Guwahati	Indian Institute of Entrepreneurship, IIE, Govt of India.	**10-20 Feb 2021**
Training on ORGANIC & HYDROPONIC FARMING	MSME-Technology Development Centre, Firozabad	**28 jul-02Aug 2020**
Workshop cum Training on PATENT SEARCH AND ANALYSIS	Tezpur University, IPR cell & (DIPP) & TIFAC, DST, NewDelhi	**25 feb 2017**
Workshop on "FLOW APPLICATIONS IN BASICS, APPLIED AND CLINICAL BIOLOGY"	IIT Guwahati in association with The cytometry society, India	**03-05 Nov 2016.**
TEQIP National course on BIOLOGICAL TREATMENT OF SOLID WASTE,	TEQIP, Knowledge incubation centre, IIT Guwahati	**8-10 Feb 2016**
Short term course on "Recent Trends in Fuel Cell Technology "	Ministry of Human Resource Development, Govt of India. IIT Guwahati, India	**28-29 Dec 2015.**
Short-term National course on "Biological treatment of Solid Waste "	Ministry of Human Resource Development (MHRD), GOI, IIT Guwahati, India	**8-10 Feb, 2015**
Hands on Training on Essential of Data management, Sequence alignment and phylogeneticanalysis	Bioinformatics infrastructure facility (BIF) College of Veterinary , Assam Agricultural University, Sponsor: BTISnet of DBT	**15-18 Nov, 2011**
Certificate course on clinical biochemistry	Department of Chemistry/Biochemistry. M.S Ramaiah College. Bangaluru, India	**18-28, Mar, 2009**

Technical Skills

TECHNICAL SKILLS

Hands-on experience on Analytical Instruments	Field Emission Scanning Electron Microscope (FESEM), Fourier Transform Infrared Spectroscopy (FTIR), High Performance Liquid Chromatography (HPLC), Thermal Gravimetry analysis (TGA), UV –spectroscopy , Fluorescence Microscope, X-Ray Powder Diffraction (XRD), Gas Chromatography (GC), Flow cytometry, Circular Dichroism (CD
Soft skills	MS-Office, Origin pro, Oracle, SQL (DBMS, RDMS), SAS programming (basic and SAS macro), Internet access Bioinformatics softwares (Bioedit, QSAR, mobile@rpbs, rasmol, hex 6.3, chemoffice, chem. Draw ultra, Molsoft, CORINA,blast, primer design, alignment, CN3D, NNpredict etc)

RECOMMENDATION ON REQUEST

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The declarations made in this curriculum vitae are true to the best of my knowledge and belief

Signature