CURRICULUM VITAE

Dr. Uttariya Roy
uttariyar@gmail.com

PERSONAL-PROFILE

Date of Birth	**:**	19th Jan 1991
Father's name	**:**	Uday Kumar Roy
Mother's name	**:**	Shila Roy
Permanent Address	**:**	Manuspur, Bandel Dist-Hooghly, West Bengal, India, Pin-712123
Languages known	**:**	English, Hindi, Bengali
Contact number	**:**	**+918777409230, +919674393779**
Sex	**:**	Male

ACADEMIC QUALIFICATION

Degree/ Examination	Year	University/Institution/Board/ Organization	% of Marks/Rank /Status
Ph.D.	2019	Jadavpur University	Awarded
NET	2017	CSIR-UGC	All India rank- 48
GATE	2015	IIT Kanpur	All India rank- 434
M.Sc.	2014	University of Calcutta	61.7%
B.Sc.	2012	Ramakrishna Mission Vidyamandira, Belur Math	58.87%

Higher Secondary (12^{th})	2009	West Bengal Council of Higher Secondary Education (Hooghly Collegiate School)	81.6%
Secondary (10^{th})	2007	West Bengal Board of Secondary Education (Hooghly Collegiate School)	91.12%

TEACHING EXPERIENCES

- Serving as **State Aided college Teacher (SACT) Category- I** of **Environmental Science/Studies** in **Budge Budge College, University of Calcutta.**
- Served as **Visiting Faculty** of **Biology** in **Siegwald Leadership & Training Academy Private Limited**, Kolkata.
- Served as **Guest Faculty** in **Maheshtala College**, University of Calcutta.
- Served as **Teaching Assistant** of **Microbiology** and **Numerical analysis** in **Jadavpur University**. Experience in guiding master degree students in conducting project works in Jadavpur University.

PROFESSIONAL AWARDS/FELLOWSHIPS/PRIZES RECEIVED

Name of Award/Fellowship/Prize	Awarding/Funding Agencies	Year
IconSWM Excellent Paper Award	6^{th} International Conference on Solid Waste Management (IconSWM)	2016
Junior Research Fellowship & Senior Research Fellowship	Department of Biotechnology, West Bengal (WB-DBT)	2015-2018
Special Prize in Science & Arts Exhibition	Hooghly Collegiate School, Govt. of West Bengal	2008

POST GRADUATE PROJECT PROFILE

Project: "A Cellular Model of Free Fatty Acid induced Insulin Resistance"

Under the guidance and supervision of Dr. Partha Chakrabarti, MD, PhD, Senior Scientist at **CSIR-Indian Institute of Chemical Biology (IICB)**, Kolkata in **2013**.

PUBLICATIONS

Research Articles (published in SCI Journals):

1. Shajeeya, A. Shaik, **Roy, U.**, Sengupta, S., Goswami, A., **2022**. **Adsorption of Safranin O on halloysite nanotubes: a mechanistic case study for efficient wastewater remediation.** *International Journal of Environmental Science and Technology*. 20, 5405-5426 (Springer, **Impact factor: 3.1**)

2. Mukherjee, A., Sarkar, S., Parvin, R., Bera, D., **Roy, U.**, Gachhui, R., **2020**. **Remarkably high Pb^{2+} binding capacity of a novel, regenerable bioremediator *Papiliotrema laurentii* RY1: Functional in both alkaline and neutral environments.** *Ecotoxicology and Environmental Safety*.195, 110439 (Elsevier, **Impact factor: 6.8**).

3. **Roy, U.**, Das, P., Bhowal, A., **2019**. **Treatment of azo dye (congo red) solution in fluidized bed bioreactor with simultaneous approach of adsorption coupled with biodegradation: optimization by response surface methodology and toxicity assay.** *Clean Technologies and Environmental Policy*. 21, 1675-1686 (Springer Nature, **Impact factor: 4.3**).

4. Sarkar, S., Mukherjee, A., Parvin, R., Das, S., **Roy, U.**, Ghosh, S., Chaudhuri, P., Roychowdhury, T., Mukherjee, J., Bhattacharya, S., Gachhui, R., **2019**. **Removal of Pb (II), As (III), and Cr (IV) by nitrogen-starved *Papiliotrema laurentii* strain RY1**. *Journal of Basic Microbiology*. 59:10, 1016-1030 (Wiley Online Library, **Impact factor: 3.1**).

5. **Roy, U.**, Sengupta, S., Banerjee, P., Das, P., Bhowal, A., Datta, S., **2018**. **Assessment on the decolourization of textile dye (Reactive Yellow) using *Pseudomonas* sp. immobilized on fly ash: Response surface methodology optimization and toxicity evaluation.** *Journal of Environmental Management*. 223, 185-195 (Elsevier, **Impact factor: 8.7**).

6. **Roy, U.**, Sengupta, S., Das, P., Bhowal, A., Datta, S., **2018**. **Integral approach of sorption coupled with biodegradation for treatment of azo dye using *Pseudomonas* sp.: batch, toxicity, and artificial neural network**. *3Biotech*. 8:4, 192 (Springer Nature, **Impact factor: 2.8**).

7. Banerjee, P., Barman, S.R., Sikder, D., **Roy, U.**, Mukhopadhyay, A., Das, P., **2017**. **Enhanced degradation of ternary dye effluent by developed bacterial consortium with RSM optimization, ANN modeling and toxicity evaluation.** *Desalination and Water Treatment*. 72, 249-265 (Taylor and Francis, **Impact factor: 1.234**).

Books/Book chapters:

1. Barman, S.R., **Roy, U.**, Das, P., Mukhopadhyay, A., **2020**. **Membrane processes for removal of polyaromatic hydrocarbons from wastewater.** Sanjay K. Sharma (eds). **Green Chemistry and Water Remediation, Research and Application.** Elsevier, Pp: 189-207.

2. Sengupta, S., Srivastava, M., **Roy, U**., Das, P., Datta, S., Mukhopadhyay, A., **2020**. **Novel Techniques of Synthesis of Nanocellulose from Sugarcane Bagasse and Its Applications in Dye Removal.** Sadhan Kumar Ghosh et al. (eds). **Emerging Technologies for Waste Valorization and Environmental Protection**, Springer Nature, Singapore, Pp: 79-85.

3. Sengupta, S., **Roy, U**., Chowdhary, S., Das, P., **2020**. **New Bioremediation Technologies to Remove Heavy Metals and Radionuclides.** Maulin P Shah (eds). **Removal of Emerging Contaminants through Microbial Processes.** Springer, Singapore, Pp: 23-45.

4. Banerjee, P., **Roy, U.**, Datta, A., Mukhopadhyay, A., **2020**. **Novel Composite Materials for CO_2 Fixation.** Ashok Kumar and Swati Sharma (eds). **Chemo-Biological Systems for CO_2 Utilization**, Taylor & Francis.

5. Manna, S., **Roy, U.**, Biswas, A., Sengupta, S., Basak, P., Das, P., **2020**. **Review on Trends in the Removal of Pharmaceuticals and Personal Care Products (PPCPs) from Water and Wastewater.** Manish Kumar, Daniel D. Snow, Ryo Honda, Santanu Mukherjee (eds). **Contaminants in Drinking and Wastewater Sources,** Springer Nature, Singapore, Pp: 225-250.

6. **Roy, U.**, Manna, S., Sengupta, S., Das, P., Datta, S., Mukhopadhyay, A., Bhowal, A., **2018**. **Dye Removal Using Microbial Biosorbents.** Gregorio Crini and Eric Lichtfouse (eds). **Green Adsorbents for Pollutant Removal: Innovative materials,** Springer Nature, Switzerland, Pp: 253-280.

7. **Roy, U.**, Das, P., Bhowal, A., Datta, S., **2018**. **Biodegradation of Azo dye Using the Isolated Novel Bacterial Species: *Acinetobacter* sp.** Sadhan Kumar Ghosh (eds). **Utilization and Management of Bioresources**, Springer Nature, Singapore, Pp: 187-193.

8. Sengupta, S., Manna, S., **Roy, U.**, Das, P., **2018**. **Manufacturing of Biodegradable Poly Lactic Acid (PLA): Green Alternatives to Petroleum Derived Plastics.** Imtiaz Ahmed Choudhury, Saleem Hashmi (eds). **Encyclopaedia of Renewable and Sustainable Materials**, Elsevier, Pp: 561-569.

INVITE LECTURES

Title	Organization	Venue	Year
Millennium Agenda on Environment: Journey of Two Decades	Department of Environmental Science, University of Calcutta	Department of Environmental Science, University of Calcutta	2020

ASSIGNMENTS

Appointed as	College/University/Organization	Subject	Year
External Examiner	University of Calcutta, Dinabandhu Andrews Institute of Technology and Management, Ramakrishna Mission Vidyamandira, Belur Math	Biochemistry (P)	2022
		Microbiology (P)	2023
		Human Physiology (T)	2023
Internal Examiner	University of Calcutta	Biochemistry (P), Microbiology (P), Human Physiology (P)	2022 2023 2023
External Paper Setter	Ramakrishna Mission Vidyamandira, Belur Math	Microbiology	2022
Moderator	Ramakrishna Mission Vidyamandira, Belur Math	Microbiology	2022

CONFERENCES/SEMINARS/WORKSHOPS/COURSES ATTENDED (PRESENTED PAPER & PARTICIPATED)

- Participated and **presented** paper (**Oral** presentation, Title of the paper- **"Biodegradation of azo dye (Crystal violet) using isolated *Vibrio* sp. UR 1: Batch and Phytotoxicity assay")** in a **National Seminar** on **"Emerging Environmental Issues: Retrospect and Prospect"** organized by Department of Zoology, Vijaygarh Jyotish Ray College, University of Calcutta, Kolkata, **2019**.

- Participated and **presented** paper (**Oral** presentation, Title of the paper- **"Decolourization of textile dye (Reactive Yellow) from industrial wastewater using isolated bacterial species: *Vibrio* sp. UR 1")** in a **National Seminar** on **"Contemporary Issues in Urban Economics with special reference to India"** organized by Centre for Urban Economic Studies, University of Calcutta, Kolkata, **2019**.

- Participated and **presented** paper (**Poster** presentation, Title of the poster- **"Biodegradation of textile dye using isolated bacterial species- *Acinetobacter* sp."**) in an **International Seminar** on **"Recent Trends in Microbiology"** organized by Department of Microbiology, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, West Bengal, **2017**.

- Participated and **presented** paper (**Oral** presentation, Title of the paper- **"Biodegradation of Azo Dye using the Isolated Novel Bacterial Species- *Acinetobacter* sp."**) in an **International Conference** on **"Solid Waste Management (IconSWM)"** at Jadavpur University, Kolkata, **2016**.

- Participated and **presented** paper (**Oral** presentation, Title of the paper- **"Biodegradation of azo dye using isolated novel bacterial species- *Dietzia* sp."**) in **23rd West Bengal State Science and Technology Congress** at Presidency University, Kolkata, **2016**.

- Participated and **presented** paper (**Oral** presentation, Title of the paper- **"Biodegradation of textile dye using isolated bacterial species- *Bacillus* sp."**) in **INNOVA** organized by Indian Institute of Chemical Engineering at Jadavpur University, Kolkata, **2016**.

- Participated in a **National Seminar** on **"Millennium Agenda on Environment: Journey of Two Decades"** organized by Department of Environmental Science, University of Calcutta, Kolkata, **2020**.

- Participated in an **International Virtual Conference** on **"Advanced Nanomaterials Applications"** organized by Centre for Nanotechnology Research (CNR), Vellore Institute of Technology, Vellore, **2020.**

- Participated in an **National Level Webinar** on **"Immune Response to SARS-Covid-2 and Treatment Strategies"** organized by Department of Physiology and IQAC, Raja Peary Mohan College, Uttarpara, Hooghly, **2020.**

- Participated in a **Webinar** on **"Lighting- It's Impacts- An Overview"** organized by Division of Chemistry, Department of Sciences and Humanities, Vignan's Foundation for Science, Technology and Research, Vadlamudi, Andhra Pradesh, **2020**.

- Participated in a **Webinar** on **"Techno-Economical feasibility on Zero Liquid Discharge projects"** organized by Department of Environmental Science & Technology, Shroff S R Rotary Institute of Chemical Technology, Ankleshwar, **2020**.

- Participated in a **Webinar** on **"Nanosciences-Future Perspective"** organized by Department of Chemistry, Physics, and Electronics & Communication, Muthayammal College of Arts & Science, Rasipuram, Tamil Nadu, **2020**.

- Participated in a **Webinar** on **"Steps Towards Life: Chemistry"** organized by Department of Chemistry, School of Basic and Applied Sciences, Adamas University, Kolkata, **2020**.

- Participated in a **University Level Workshop** on **"A Revisit to the Teaching Learning Methodologies in Environmental Studies"** organized by Netaji Nagar College for Women, University of Calcutta, Kolkata, **2019**.

- Participated in an **International Conference** on **"Allergy, Asthma, & Immunology (ALLERCON)"** organized by Allergy & Asthma Research Centre in collaboration with Allergy & Asthma Treatment Centre, and Department of Zoology, University of Calcutta, Kolkata, **2019**.

- Participated in a **State Seminar** on **"Biodiversity of West Bengal"** organized by Department of Zoology, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, West Bengal, **2018**.

- Participated in a **National Workshop** on **"Paradigm Shift in Chemical Engineering"** organized by Department of Chemical Engineering, Jadavpur University, Kolkata, **2016**.

- Participated in a **National Seminar** on **"Industrial Pollution Control Using Emerging Technologies"** organized by Department of Chemical Engineering, Jadavpur University, Kolkata, **2016**.

- Participated in a **National Seminar** on **"Frontiers in Chemical Process Industries"** organized by Department of Chemical Engineering, Jadavpur University, Kolkata, **2016**.

- Participated in an **International Workshop** on **"Colloid Chemistry in Produced Water Treatment"** under Indo-Norwegian Collaboration program (INCP) organized by Department of Chemical Engineering, Jadavpur University, Kolkata, **2014**.

- Participated in a **National Seminar** on **"Microbiology: Development and Challenges in Basic and Applied Research"** organized by Department of Microbiology, Ramakrishna Mission Vidyamandira, Belur Math, in collaboration with Bose Institute, Kolkata, **2011**.

- Participated in a **State Seminar** on **"Journey of Microbiology: Evaluation to its Modern Age Application"** organized by Tara Devi Harakh Chand Kankaria Jain College, Kolkata, **2011**.

- Participated in a **National Seminar** on **"Frontier Areas of Chemistry- A Modern Perspective"** organized by Department of Chemistry, Ramakrishna Mission Vidyamandira, Belur Math, in collaboration with the Indian Association for the cultivation of Science, Kolkata, **2010**.

- Participated in **"Indian Cultural & Spiritual Heritage Course"** at Ramakrishna

Mission Vidyamandira, Belur Math, during three years of B.Sc. Course **(2009-2012).**

DECLARATION

Hereby declared that all the above-mentioned informations are true to the best of my knowledge and belief.

Date: 18.05.2024 Signature