

CURRICULUM VITAE

Tathagata Sinha

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ACADEMIC PROFILE

Year	Degree/Exam	Institute/Board	CGPA/Percentage
2026	Ph.D. in Hydraulics and Water Resources Engineering	IIT Madras	8.23 (CGPA)
2020	M. Tech in Agricultural Systems and Management	IIT Kharagpur	8.52 (CGPA)
2017	B. Tech in Agricultural Engineering	Uttar Banga Krishi Vishwavidyalaya, Cooch Behar, West Bengal	8.79 (CGPA)
2013	Higher Secondary	WBCHSE	80.40 (%)
2011	Secondary (Madhyamik)	WBBSE	89.37 (%)

COURSEWORK INFORMATION

- Surface Water Hydrology
- Systems Approach in Agriculture
- Ground Water Engineering
- Contaminant Transport Modelling
- Climate Risk Assessment in Agriculture
- Soil-Plant-Atmosphere Continuum
- Soil Systems
- Crop Production Systems
- Statistical Methods
- Computer Programming

DISSERTATION

Ph.D.

- Dissertation in “Effect of Leaf Diel Movement on Canopy Radiation, Photosynthesis and Transpiration”

M. Tech

- “Assessment of Arsenic in Food Chain and Community Health Risk in Gangetic West Bengal” as M. Tech final year thesis work completed successfully

B. Tech

- “Study of Microwave-oven Drying of Bell Pepper” as B. Tech final year thesis work completed successfully

AWARDS AND ACHIEVEMENTS

University Gold Medal

-Achieved "Gold Medal" for securing the highest CGPA 8.79 out of 10.00 in the B. Tech (Agricultural Engineering) Degree Program in the year 2017

Mithun Das Gupta Award

-Achieved "Mithun Das Gupta Award" for securing the highest GPA 8.66 out of 10.00 in the subjects of "Farm Machinery and Power Engineering" in the Bachelor of Technology (Agricultural Engineering) Degree Program in the year 2017

GATE Rank (2018)

-Secured AIR-88 in GATE-2018

COMPUTER SKILL

- **Programming Languages:** C, C++, SQL, R, MATLAB
- **CAD / CAM Software:** AutoCAD
- **Web Development Languages:** HTML, Java
- **Software Applications:** QGIS, HEC-RAS, HEC-HMS, HYDRUS

INTERSHIPS AND TRAINING

- 1 Month Summer Internship Program at BRITANNIA in Production and Quality Department at Kolkata Factory on “Production and Quality Control of Food Products (Specially Biscuits, Bread, Butter and Cakes)” in the year of 2016.
- 4 Weeks Training at Central Farm Machinery Training & Testing Institute, Tractor Nagar, Budni, Madhya Pradesh (M.P.) on “Agricultural Machinery, Operation and Maintenance of Tractor, Study of Various Sub-assemblies of Tractor, Study, Operation and Maintenance of 5h.p. Single Cylinder Diesel Engine, Introduction to Tractor Testing Activities and Testing Procedures” in the year of 2014.

AREA OF INTEREST

- Crop Modelling
- Effects of Climate Change on Plant Growth
- Plants’ Physiological Modelling
- Surface and Sub-surface Irrigation system
- Soil and Water Conservation engineering
- Hydrology

PUBLICATIONS

Title of the Paper: *Living with arsenic in the environment: An examination of current awareness of farmers in the Bengal basin using hybrid feature selection and machine learning.*

DOI: <https://doi.org/10.1016/j.envint.2021.106529>

WORKSHOPS

SIPSM: attended South Indian Plant Systems Modelling Workshop [A SERB (Science and Engineering Research Board) High-end (Karyashala) workshop] at Indian Institute of Science Education and Research, Thiruvananthapuram (IISER TVM), Kerala (India) from 7th January to 13th January, 2024.

SCHOLAR PROFILE

Google Scholar Profile: <https://scholar.google.com/citations?hl=en&user=Hymkq98AAAAJ>

Research Gate Profile: <https://www.researchgate.net/profile/Tathagata-Sinha>

EXTRA CURRICULAR ACTIVITES

Playing Chess, Carrom, Cricket, and Solving tricky problems based on Physics and Mathematics.