

Curriculum Vitae

Argha Kamal Guha

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Research Interest

Environmental Air and Noise Pollution, Environmental Air and Noise Modelling, Environmental Epidemiology, Climate Studies

Education

Under-graduate and Post-graduate Educations

Degree	Specialisation	Institution	Year of Study	Secured Grade Point
Ph.D in Civil Engineering	Environmental Engineering	Indian Institute of Technology Guwahati	2016 – 2024	6.89/10
Master of Civil Engineering (M.C.E.) / (M.E.)	Environmental Engineering	Jadavpur University	2014 - 2016	8.02/10
Bachelor of Technology (B.Tech)/(B.E.)	Civil Engineering	College: Adamas Institute of Technology University: West Bengal University of Technology (Presently, Maulana Abdul Kalam Azad University of Technology; MAKAUT)	2008-2012	7.54/10

Title of Ph.D Thesis: Road Traffic Noise and PM_{2.5} Impacts on Workers' Health in Different Microenvironments of an Urban Traffic Corridor

Title of M.E. Thesis: Assessment of Noise Pollution in Kolkata Metro Railway System

Title of B.Tech Thesis: Design of G+2 School Building

School Education

Standard Studied	Specialisation	School	Board/Council	% of Marks Obtained
10+2 ; Higher Secondary Examination	Science	Kaliyaganj Parbati Sundari High School (H.S.)	West Bengal Council of Higher Secondary Education	75.20
10 th : Madhyamik Examination	General	Kaliyaganj Parbati Sundari High School (H.S.)	West Bengal Board of Secondary Education	83.75

Skills and Soft Skills

Air Pollution • Air Quality Modeling • Noise Control • Noise Mapping • SoundPLAN • AERMOD • CALINE4 • WRPLOT • SPSS • R-Programming • Python (Programming Language) • MATLAB • LaTeX • Microsoft Office • STAAD-Pro • AutoCAD • C (Programming Language)

Publications

Journal

- ✓ Guha, A.K. and Gokhale, S., 2023. Urban workers' cardiovascular health due to exposure to traffic-originated PM_{2.5} and noise pollution in different microenvironments. *Science of the Total Environment*, 859, pp.160268. (Elsevier Publishing Company; Impact Factor: 9.8 in 2023) (SCI indexed;Q1)
- ✓ Guha,A.,K.,Kundu Chowdhury,A.,Debsarkar,A.,Chakrabarty,S.,2020, Assessment of Noise Pollution of Kolkata Metro Railway System and Its Impact on Urban Receptors A Case Study, *International Journal of Research in Advent Technology*,VOLUME-8,ISSUE-11,pp.1-13.

Manuscripts (Under review/ In Communication/Under preparation)

- ✓ Guha, A.K. and Gokhale, S., Urban traffic borne PM_{2.5} and noise impacts on workers' annoyances in different microenvironments (status : under review)
- ✓ Guha, A.K. and Gokhale, S., Characterisation of different road traffic noise contribution (status: under review)
- ✓ Guha, A.K. and Gokhale, S., A study linking Urban Traffic Noise and PM_{2.5} and urban workers' respiratory performances (status : under preparation)
- ✓ Development of machine learning based air quality model for PM_{2.5} (status : under preparation)

Book Chapter

Guha, A.K. and Gokhale, S., 2024, Road traffic borne PM_{2.5} and noise indices in an urban roadside microenvironments, Lecture Notes in Civil Engineering, Springer Nature (SCI;Q4)

Conference/Conclave/Symposium

- ✓ Guha,A.K. 2025, Particulate pollution in urban Kolkata city and its' association with meteorological variables
- ✓ Guha, A.K. and Gokhale, S., 2023, Road traffic borne PM_{2.5} and noise indices in an urban roadside microenvironments, "8th Indian International Conference on Air Quality Management (IICAQM 2023): Measurement, Modelling, Health Risk, and Public Policy. on 06- 08 December 2023, Indian Institute of Science (IISc),Bangalore, India.(Third best oral presentation)
- ✓ Guha,A.,K.,Chowdhury,R.,Das,R.,Chowdhury, A., K.,Gokhale,S.,2018, A short term noise study near curb side ambient environment for the vehicular movement, Recycle 2018,IIT Guwahati (Poster Presentation)
- ✓ Guha,A.,K.,Gokhale,S., 2018,A short term ambient noise study in a cement plant, Research Conclave,2018,IIT Guwahati(Poster Presentation)
- ✓ Guha,A.,K.,Gokhale,S., 2018, Reduction of traffic originated PM_{2.5} and noise in the roadside building-A review, ATIPC,2018,IEST Kolkata (Conference Oral Presentation)

Experience

- Adjunct Faculty- Adamas University-Sep,2024-Till date
- Guest Faculty- Jadavpur University- Sep,2024-Till date
- Senior Project Associate- Indian Institute of Technology Kanpur –Feb, 2024-May,2024
- Assistant Professor- Techno International Newtown- Sep, 2023 - Dec, 2023
Courses Taught: B.Tech Coursework: Environmental Air and Noise Pollution, Environmental Engineering II
- Teaching Assistant -Indian Institute of Technology, Guwahati- Jul, 2016 - Jul, 2021
Courses Taught:
M.Tech / Ph.D Coursework: Environmental Air and Noise Pollution (CE 523)

B.Tech Couseswork: Environmental Engineering (CE 223), Engineering Drawing (CE 101)

● **Lecturer- Elitte Institute of Engineering and Management- Jun, 2013 - Jul, 2014**


Courses Taught: Fluid Mechanics, Environmental Engineering, Strength of Materials, Surveying, Theory of Structure, Soil Mechanics

● **Graduate Engineering Trainee- MRC PRISM PROJECTS PRIVATE LIMITED- Jun, 2012 - Jun, 2013**

Key Tasks: Structural drawing, design and execution in building construction project

Career highlights

- ✓ Organised Indian International Conference on Air Quality Management (IICAQM-2021) (Role: Student Organising Member).
- ✓ Delivered lectures during TEQUIP courses for technical teachers and industrial professional training on Environmental Air and Noise Pollution.
- ✓ Organised industrial training for civil and environmental engineering students.
- ✓ Organised different academic and industrial seminar for students and researchers of civil and environmental engineering.

Licenses & Certifications:  **Associate Member** (AM151762-5)-Institution of Engineers of India (IEI),Kolkata-700091

Honors & Awards



Doctoral Research Fellowship - Ministry of Education (Formerly MHRD), Government of India, Jul, 2016 - Jul, 2021

Workshops/Conference Attended/ Organised

- ✓ A short-term course on MATLAB, Research Conclave 2018, IIT Guwahati
- ✓ A short term course on CFD analysis of heat transfer and fluid flow problem using FEM and FVM 03rd July,2017 - 07th July,2017, IIT(ISM) Dhanbad
- ✓ Organizer of A Short Term-Course on Environmental Air and Noise Pollution, 2018 at IIT Guwahati (TEQUIP Program)
- ✓ Member of the organizing body of Indian International Conference on Air Quality Management (IICAQM-2021)

Extracurricular Activities

- ✓ Playing chess, cricket, Listening music, photography, trekking, travelling
- ✓ Organized events in college program and official meets with active involvement.
- ✓ Work as a group leader of COGNIZANCE 2012, participating team in IIT ROORKEE, regarding DOUBLE DECK BRIDGE model presentation.

Declaration

I hereby declare that all the information furnished here are true and correct to the best of my knowledge and belief.

Yours Sincerely,

Argha Kamal Guha

Kolkata, India

Argha Kamal Guha

List of Referees:

Referee-1: Prof. Sharad Gokhale (Ph.D. Thesis Supervisor) Professor; Department of Civil Engineering; Indian Institute of Technology Guwahati; E-mail: sharadbg@iitg.ac.in Contact: (+91) 361-258 2419/(+91) 9435302856

Referee-2: Prof. Shibnath Chakraborty (M.E. Thesis Supervisor) Professor; Department of Civil Engineering; Jadavpur University E-mail: sn_chakrabarty@yahoo.com / snochakraborty@civil.jdvu.ac.in Contact: (+91) 9831129563 / (+91)7980663944

Referee-3: Prof. Anupam Debsarkar (M.E. Thesis Co-Supervisor) Professor; Department of Civil Engineering; Jadavpur University E-mail: anupamju1972@gmail.com Contact: (+91) 33-2457-2815

Referee-4: Dr. Omkar S. Deshmukh; Assistant Professor; Department of Chemical Engineering; Indian Institute of Technology Guwahati E-mail: o.deshmukh@iitg.ac.in Contact:(+91) 361-2583547/ (+91) 9830009708

Referee-5: Prof. Somnath Mukherjee; Retired Professor; Department of Civil Engineering; Jadavpur University; E-mail: mukherjeesomnath19@gmail.com Contact: (+91)7439260339/9874404747