

Curriculum Vitae

Dr. Moumita Ghosh

Lecturer

Department of Mathematical Sciences

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Current Position:

Lecturer in Mathematics, The University of Alabama in Huntsville from August 2024

Academic Qualifications:

Completed my PhD in Applied Mathematics entitled “**High Order Enriched Finite Element Methods for Interface Problems**”, under the supervision of Dr. So-Hsiang Chou in 2023.

Degree	University/ Institute	Year
Ph.D.	Bowling Green State University, OH, USA	2023
B.Ed.	University of Calcutta, West Bengal, India	2014
M.Sc.	University of Calcutta, West Bengal, India	2012
B.Sc.	University of Calcutta, West Bengal, India	2010

Professional Job Experience:

- **Lecturer**

Currently working as a Lecturer in Mathematics at the University of Alabama in Huntsville, USA since August 2024 - present. My role is here to teach assigned classes, write exams, administer exams, grading participating in teaching workshops and training, and attending seminars, colloquia, and faculty improvement meetings.

- **Visiting Assistant Professor**

Worked as a Visiting Assistant Professor in Mathematics at Norwich University, USA, August 2023 – June 2024. My role was teaching assigned classes, designing the course, making the syllabus, writing exams, administering exams, grading, participating in teaching workshops and training, and attending seminars, colloquia, and faculty improvement meetings.

- **Graduate Teaching Associate**

Worked as a Graduate Teaching Associate at Bowling Green State University, USA, August 2019 - August 2023. As a Graduate Teaching Associate, I taught assigned classes, wrote exams, administered exams, and graded. I participated in teaching workshops, observed several classes, and developed a strong interest in teaching pedagogy.

- **Visiting Lecturer**

Worked as a Visiting Lecturer in Mathematics at Gobardanga Hindu College, India, July 2013 January 2015. I taught assigned classes, designed the course, made the syllabus, wrote exams, proctored the exams and graded them.

Tutoring Experience:

- **Graduate Teaching Associate**

Department of Mathematics, Bowling Green State University, Bowling Green, OH (Fall 2019 -Spring 2023)

- **Private Tutor**

Gobardanga, West Bengal, India (Fall 2010 – Spring 2012)

Courses Taught:

Subject	Course Name	Duration	University
Calculus I	MA 171 Three sections	Fall'24, Spring '25	University of Alabama in Huntsville
Calculus II	MA 172	Fall'24 (Remote Synchronous)	University of Alabama in Huntsville
Elementary Statistics	MA 102 Two sections	Spring'24	Norwich University
Mathematics: A Liberal Art II	MA 232 Two sections	Spring'24	Norwich University
Mathematics: A Liberal Art I	MA 101 Three sections	Fall'23	Norwich University
Precalculus	MATH 1280	Fall'19, Spring'20, Fall'22	Bowling Green State University
Calculus I	MATH 1310	Spring'21(Remote Synchronous) Fall'21, Spring'22, Spring'23	Bowling Green State University
Real Life Math Skills	MATH 1190	Fall'20(Remote Synchronous)	Bowling Green State University
Linear Algebra	Undergraduate level	Fall'13, Spring'14, Fall'14	Gobardanga Hindu College
Differential Equations	Undergraduate level	Fall'13, Spring'14, Fall'14	Gobardanga Hindu College
Real Analysis	Undergraduate level	Fall'13, Spring'14, Fall'14	Gobardanga Hindu College

Technical Skill:

C Programming, MATLAB, Latex

Teaching with Technology:

Used web-based class management systems including Blackboard, Canvas, Moodle, Desmos, GeoGebra, Web-assign, ALEKS, MyOpenMath, Minitab, MyMathLab, Panapto, and Graphing calculator Casio-TI-83, TI-84, TI-84+

Academic Awards and Honors:

Assistantship and tuition waiver, Bowling Green State University, 2019- 2023.

J. Robert and G. Overman Scholarship Award, Bowling Green State University, 2020.

J. Robert and G. Overman Scholarship Award, Bowling Green State University, 2021.

Membership:

American Mathematical Society (AMS)

Project Work:

Entitled as ‘**Henstock Stiltjes Integral**’ under the supervision of Dr. Dilip Kumar Ganguly at the University of Calcutta, 2012

Research Interest:

Finite Element Method, Finite Element Analysis, Numerical Analysis, Partial Differential Equation, Finite Volume Method

Research Paper:

1. M. Ghosh, S.H. Chou*. High-Order Enriched Finite Element Methods with Post-processing Flux for Elliptic and Parabolic Interface Problems (**Manuscript under preparation**)

Teaching Related Conferences, Webinars, and Workshops Attended:

- **Workshops and Trainings at Norwich University in Academic Year 2023-2024**
 - “Academic Advising Orientation”, August 2023.
 - “When, How, and Whether to Allow Use of ChatGPT: Constraints, Affordances, and Academic Integrity”, “Using Cloze Format Questions and Adaptive Mode Questions in NUoodle”, “Creating Desmos Activities for the Classroom” August 2023.
 - “Equity in Course Design, Pedagogy, and Practice”, August 2023.
 - “Using the iPad for Learning: Perspectives from a Student and Instructional Technologist”, August 2023.
 - “Norwich University Faculty Learning Community meetings” – biweekly small group meetings started from September 2023 – present.
- **Training and Seminar at Bowling Green State University in 2019 – 2023**
 - A Seminar on “Mathematics Peer Monitoring Program”, February 2023.
 - A Seminar on “How to effectively mentor one’s peers about teaching undergraduate mathematics students”, March 2020.

- Training on WebAssign, ALEKS, August 2019.
 - Performance Improvement Group Meetings as a part of the Peer Monitoring Program, biweekly small group meetings during the teaching of Precalculus (Fall 2019, Spring 2020) and Calculus I (Spring 2021).
 - Took the courses “Technology for Teaching Math”, in the Spring of 2020, “Curriculum Analysis and Classroom Behaviors for Teachers”, in the Fall of 2019, and “Overview of Collegiate Mathematics Teaching”, in the Summer of 2020.
- At the University of Calcutta in India, I completed my **Bachelor of Education** degree which combines practical/pedagogical study with a Major sequence in the academic discipline of Education. This one-year degree allowed me for more practical experiences and greater personal or professional development before teaching service.

Hobbies:

Cooking, Listening to Music, Singing, and Quality time spent with my family.