
Manish Sarkar

Ph.D. Student

Cleveland, OH 44106-7080

(216) 301-7693

manish.sarkar@case.edu

EDUCATION

Ph.D. in Biology - *Case Western Reserve University*

August 2022 - PRESENT

- Advisor: Dr. Karen Abbott
- GPA: 4.00

Master of Science - *Jadavpur University*

August 2019 - July 2021

- Specialization: Applied Mathematics
- Score: 91.3%

Bachelor of Science - *Jadavpur University*

July 2016 - June 2019

- Major: Mathematics
- Minors: Physics, Chemistry
- Score: 87.33%

ACADEMIC ACHIEVEMENTS

- **2016:** Ranked under Top-20 in West Bengal State and placed among the top 0.1% students in the Higher Secondary Examination (WBCHSE Board).
- **2014:** Ranked among the top 0.1% students in the Secondary Examination (WBBSE Board).

RESEARCH INTERESTS

My research interest lies in the area of **Theoretical Ecology**. I'm using mathematical models to understand and predict population dynamics and the impacts of species interactions.

ASSISTANTSHIP

- **Case Western Reserve University:** Teaching Assistant for Development and Physiology Lab- BIOL 216L (Fall 2022).
- **Case Western Reserve University:** Teaching Assistant for Gene, Ecology and Evolution Lab- BIOL 214L (Spring 2023, Fall 2023).

RESEARCH PROJECT

- Fear Effect and Herd Behavior in Prey-Predator Population Dynamics : Under the supervision of Prof. Sandip Banerjee (Department of Mathematics), Indian Institute of Technology(IIT), Roorkee, India.
- Eco-epidemiological perspective of Prey-Predator Population Dynamics: Under the supervision of Prof. Sandip Banerjee (Department of Mathematics), Indian Institute of Technology(IIT), Roorkee, India (Reading Project).

SCHOLARSHIPS

- **2016-2021:** Recipient of DST-INSPIRE(Innovation in Science Pursuit for Inspired Research) scholarship, awarded by Department of Science and Technology, Govt. of India.
- **2008:** Awarded scholarship in connection with the Primary Final Examination (Scholarship Examination) by State Govt. of West Bengal, India.

COMPUTER SKILLS

- **Scientific:** Mathematica, Matlab, R.
- **Typography:** LaTeX.

ACTIVITIES

- Volunteered as a STEM facilitator in summer camp through Flora Stone Mather Center for Women of Case Western Reserve University (2023).
- Participated in the Virtual Summer School Program 2021 at Osaka University, Japan.
- Presented a poster on “Prey-Predator Population Dynamics” on National Science Day '19 at Jadavpur University, Kolkata, India.

PART TIME JOB

Private Tutor(1:1)

2016 - 2021

- Subjects: Mathematics, Physics, Chemistry, Biology

LANGUAGES

- English
- Bengali (Native)
- Hindi

INTERESTS

- **Painting:** Trained in Painting under the affiliation of BANGIYA SANGEET PARISHAD, West Bengal, India (2003-2013).
- **Teaching (2014 - 2022):** Both professionally and voluntarily. Taught high school students (Mathematics, Physics, Chemistry, Biology) and college students (Calculus and Differential Equations).