CURRICULUM VITAE

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PERSONAL DETAILS

Name	: Dr. Shuvojit Mondal
Date of Birth	: 07-08-1991
Nationality	: Indian
Gender	: Male
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Passport Number : Z6539459
Date of Issue: 17/11/2021
Date of Expiry: 16/11/2031

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CURRENT APPOINTMENT

Title	: Assistant Professor Grade - II
Department	: Department of Mathematics
Homepage	**:**
Affiliation	: Rabindra Mahavidyalaya
D.O.J	: 21/03/2017

Correspondence Address: Champadanga, Hooghly-712401, West Bengal, India.

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PRESENT STATUS

Assistant Professor Scale II, Department of Mathematics, Rabindra Mahavidyalaya

Ex. Head of the Department, Department of Mathematics, Rabindra Mahavidyalaya from 01/11/2018 to 31/12/2021.

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ACADEMIC HISTORY

• 2021   : Ph.D in Mathematics on the topic "***Study of Ecological Models with Fractional Order Calculus"***
 University : Jadavpur University

• 2014   : M.Sc in Mathematics - 2 Yrs.
 University : Calcutta University

• 2012   : B.Sc Hons. in Mathematics - 3 Yrs.
 University : Calcutta University.

• 2009   : Higher Secondary - 1 Yr.
 Board   : West Bengal Council of Higher Secondary Education.

• 2007   : Madhyamik - 1 Yr.
 Board   : West Bengal Board of Secondary Education.

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SCHOLARSHIP/AWARD

• Ph.D in Mathematics awarded on 05.04.2021.

• PURSE DST Fellowship from 08/03/2016 to 20/03/2017 under DST PURSE Project- II.

• GATE Qualified on February 2016.

• CSIR UGC NET- LS Qualified on December 2016.

• CSIR UGC NET- JRF Qualified on June 2016.

• CSIR UGC NET- LS Qualified on June 2015.

• CSIR UGC NET- LS Qualified on December 2014.

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AREA OF RESEARCH WORK

• **Ph.D Thesis Title** : ***Study of Ecological Models With Fractional Order Calculus***

• Field of Interests : Mathematical Biology: Mathematical ecology, Epidemiology, Nonlinear dynamics.
Fractional Calculus: Fractional order Differentiation & Integration, Fractional differential equations, Fractional order Discretization.

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RESEARCH PUBLICATIONS

• Number of Publications (Papers): 05 (05 International) till date (Detailed list attached)

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PROFILE LINK of RESEARCH PLATFORM

• Homepage of Researchgate: https://www.researchgate.net/profile/Shuvojit-Mondal

• Homepage of Google Scholar:
https://scholar.google.co.in/citations?user=k7AeKycAAAAJ&hl=en

• Homepage of Linkedin: https://www.linkedin.com/in/dr-shuvojit-mondal-8051241b4/

• Homepage of UGC Vidwan: https://vidwan.inflibnet.ac.in//profile/260516/MjYwNTE2

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COMPUTATIONAL SKILLS

• Operating System : Windows,Linux
• Programming Languages : C++
• Software Packages : LaTeX, MATLAB, MATHEMATICA, XppAuto

RESEARCH Oriented Seminars/Workshops/Conferences Attended

Talks Given:

1. Delivered a contributory talk on "**Local and global dynamics of a fractional order predator-prey system with habitat complexity and the corresponding discretized fractional order system**" in the National Conference on **Mathematics: Various Aspects in Society (NCMVAS-2023)** held in the Department of Mathematics, Jadavpur University, Kolkata-700 032 (Jointly organized by CMBE & Dept. Of Mathematics) on 13-14 March, 2023.

2. Presented a paper on "**A fractional calculus approach to Rosenzweig-Macarthur predator-prey model & its solution**" in the National Conference on **Mathematical & Theoretical Biology (NCMTB -2018)** held in the Department of Mathematics, Jadavpur University, Kolkata-700 032 (Jointly organized by CMBE & BSI) on 22-23March, 2018.

3. Delivered a contributory talk on "**Analysis of a fractional order eco-epidemiological model with prey infection and type 2 functional response**" in the National Conference on **Mathematical & Theoretical Biology (NCMTB -2017)** held in the Department of Mathematics, Jadavpur University, Kolkata-700 032 (Jointly organized by CMBE & BSI) on 16-17 March, 2017.

Participation:

1. Participated in the International Conference on "**Nature Inspired Dynamical Systems - 2020**" held in Department of Mathematics, Gujarat University, Ahmedabad, India supported by DIST - FIST on 12th September, 2020.

2. Participated in the Webinar on "**A Web Talk on Role of Mathematical Modelling in Emerging Technology - 2020**" organized by Ajay Kumar Garg Engineering College, Ghaziabad, India on 12th September, 2020 forenoon.

3. Participated in the International Workshop on "**Nonlinear Complex Dynamical Systems**" held in Agricultural & Ecological Research Unit, Indian Statistical Institute (ISI), Kolkata organized by ISI in collaboration with Bio-mathematical Society of India (BSI) & Department of Mathematics, Jadavpur University, Kolkata-700 032 on 19-20 February, 2016.

4. Participated in the International Conference on "**Nonlinear Dynamics, Analysis and Optimization**" (ICNDAO 2015) held in Department of Mathematics, Jadavpur University, Kolkata-700 032 under UGC-DRS Programme & supported by NBHM, DAE, Govt. Of India on 9-11 December, 2015.

5. Participated in the National Conference on **Mathematical & Theoretical Biology (NCMTB -2015)** held in the Department of Mathematics, Jadavpur University, Kolkata-700 032 (Jointly organized by CMBE & BSI) on 19-20 November, 2015.

6. Participated in the International Conference **India Biodiversity Meet- 2015 (IBM 2015)** in Agricultural & Ecological Research Unit, Indian Statistical Institute (ISI), Kolkata organized by ISI in association with Bio-mathematical Society of India (BSI) on 16-18 November, 2015.

CAS/ Academics/Career Oriented Seminars/Workshops/Conferences Attended

Talks Given:

Participation:

1. Participated in National Level Conference on **"NEW NAAC Guidelines for AQAR, IIQA, SSR and Quality Enhancement in Higher Education"** organized by IQAC, Vidyasagar College for Women, Kolkata, India in collaboration with NAAC on 15th September - 16th September, 2022.

2. Participated in **"UGC - HRDC Sponsored Refresher Course (RC) in Mathematics - 2022"** of 14 days held in UGC-HRDC CPDHE University of Delhi, Delhi, India on 2nd September - 15th September, 2022.

3. Participated in **"UGC - HRDC Sponsored Refresher Course (RC) in Mathematics - 2021"** of 14 days held in UGC-HRDC Bangalore University, Bengaluru, India on 18th January - 1st February, 2021.

4. Participated in the **State Level Webinar** on **"Leave Rules And Health Schemes for College Teachers in West Bengal"** organized by Panihati Mahavidyalaya, Kolkata, India on 4th October, 2020.

5. Participated in **5 Day Faculty Development Programme** on **"Applied Mathematical Skill for Science and Engineering using contemporary tools"** organized by Department of Applied Science, School of Natural and Applied Sciences, Maulana Abul kalam Azad University of Technology, West Bengal, India in association with Islamic University of Science and Technology, Jammu and kashmir, India held on 14-18th September, 2020.

6. Participated in the Webinar on **"P.C. Ray Maemorial Lecture"** organized by Department of Chemistry, Rabindra Mahavidyalaya, Champadanga, Hooghly on 31st August, 2020.

7. Participated in "**UGC - HRDC Sponsored Guru-Dakshta Faculty Induction Programme (FIP) or Orientation Programme (OP) - 2020**" of 30 days held in UGC-HRDC Gujarat University, Ahmedabad, India on 27th July - 25th August, 2020.

8. Participated in the One Day Seminar on "**NAAC-Revised Accredation Framework**" organized by Internal Quality Assurance Cell of Tarakeswar Degree College, Tarakeswar, Hooghly on 21st December, 2019.

9. Participated in the One Day Workshop on "**Career Advancement Scheme**" organized by Internal Quality Assurance Cell of Rabindra Mahavidyalaya, Champadanga, Hooghly on 22nd May 2018.

<u>List of Publications</u>

<u>Published Papers</u>

<u>In International Refereed Journals</u>

1. Mondal, S., Lahiri, A., **Bairagi, N.** *Analysis of a fractional order eco-epidemiological model with prey infection and type 2 functional response*. **Mathematical Methods in Applied Sciences**, 40(18), 6776-6789, **2017**.

2. Mondal, S., Lahiri, A., **Bairagi, N.** *A fractional calculus approach to Rosenzweig MacArthur predator-prey model and its solution*. **J. Modern Methods in Numerical Mathematics** 8, 66–76, **2017.**

3. Mondal, S., Bairagi, N., **N'guerekata, M, G.** *Global Stability of a Leslie-Gower-type fractional order tritrophic model.* **Fractional Differential Calculus** 9(1), 149-161, **2019.**

4. **Mondal, S.,** Biswas, M., Bairagi, N. *Local and global dynamics of a fractional order predator-prey system with habitat complexity and the corresponding discretized fractional order system.* **Journal of Applied Mathematics and Computing**, 63, 311-340, **2020.**

5. **Mondal, S.,** Cao, X., Bairagi, N. *Study of a Discretized Fractional-order eco-epidemiological model with prey infection.* **Fractional Differential Calculus,** 10(1), 109-128, **2020**.

Shuvojit Mondal.

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Signature