

## Department of Zoology



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<b>Designation</b>	ASSOCIATE PROFESSOR
<b>Qualifications</b>	M.Sc., Ph.D.
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<b>Awards/Achievements/Positions held:</b>	<ul style="list-style-type: none"><li>• Visiting Scientist, Department of Entomology &amp; Nematology, University of Florida, IFAS, MREC, USA, (2007)</li><li>• Research Associateship (CSIR) (1995-97)</li><li>• Senior Research Fellowship (CSIR) (1992-94)</li><li>• JRF in CSIR sponsored research scheme (1989)</li></ul>
<b>Areas of Specialization</b>	Entomology, Systematics & Biology of Diptera & Strepsiptera
<b>Research Interests:</b>	<ul style="list-style-type: none"><li>• <b>Family Chironomidae (Insecta, Diptera)</b> : Biosystematics, distribution &amp; biology; Biological assessment of lentic &amp; lotic waters based on larval deformity; Organisation of polytene chromosomes</li></ul>

	<ul style="list-style-type: none"> <li>• <b>Family Ceratopogonidae (Insecta, Diptera):</b> Biosystematics, seasonality &amp; biology; Bionomics, host specificity &amp; habitat specificity of <i>Culicoides</i> spp.</li> <li>• <b>Order Strepsiptera (Insecta):</b> Biosystematics biology; Host parasitoid interactions of Strepsiptera on the pests of paddy</li> </ul>
<b>Collaboration</b>	Contributed in <b>International Training Programme on Bluetongue Vector Identification (Meeting Book) 1 st to 5 th July, 2013</b> ( Organized by The Pirbright Institute, UK India Bluetongue Vector Network & Tamil Nadu Veterinary and Animal Sciences University Vaccine Research Centre – Viral Vaccines Centre for Animal Health Studies Chennai-600 051 India)

### Research Project Implemented

<b>Funding Agency</b>	<b>Title of the Project</b>	<b>grant-in Aid (Rs.)</b>	<b>Status ( Completed with year /Ongoing with commencing year )</b>
MoEF	MoEF sponsored All India Coordinated project on Taxonomy (AICOPTAX) Research Project entitled, "Taxonomy of Diptera" funded by Department of Environment & Forest, Govt. of India. (Co-Principal Investigator)	Rs41,54,650/-	Completed; 2012
UGC MRP	UGC sponsored Major Research Project UGC entitled,"Bionomics of the biting midge (Diptera: Ceratopogonidae) affecting the livestock of West Bengal, India.	Rs.7,57,800/-	Completed; 2014

### Publications (Last Five years along with five best papers )

- 2014** Sarkar, S., Nandi, M., Mazumdar, A. (2014) Life stages of *Stilobezzia (Stilobezzia) fuscitibia* sp. n. and *Stilobezzia (Stilobezzia) festiva* Kieffer, 1911 (Diptera: Ceratopogonidae) from India, **AQUATIC INSECTS, INTERNATIONAL JOURNAL OF FRESHWATER ENTOMOLOGY, TAYLOR & FRANCIS, 2014**, (Accepted for publication) ISSN 0165-0424 (Print), 1744-4152 (Online). [**Impact Factor 0.433**].
- Harsha, R. & Mazumdar, A. (2014) Laboratory rearing of *Culicoides peregrinus* Kieffer (Diptera: Ceratopogonidae), a potential vector of Bluetongue disease, **MEDICAL AND VETERINARY ENTOMOLOGY, UK, (2014)** (Accepted for publication). [**Impact Factor 2.33**].

- Harsha, R., Pan, B., Ghosh, K., & Mazumdar, A. (2014) Isolation of haemolytic bacilli from field-collected *Culicoides oxystoma* and *Culicoides peregrinus*: potential vectors of bluetongue virus in West Bengal, India, **MEDICAL AND VETERINARY ENTOMOLOGY, UK**, (2014), doi: 10.1111/mve.12097, **[Impact Factor 2.33]**.
- Paul, N., Harsha, R., & Mazumdar, A. (2014) A new species of *Forcipomyia* Meigen (Diptera: Ceratopogonidae) described with immature stages from India **ZOOTAXA** 3881(2): 165–174, ISSN 1175-5326 (print edition) <http://dx.doi.org/10.11646/zootaxa.3881.2.5>, **[Impact factor 1.060]**
- Nandi, M., & Mazumdar, A., (2014) The Chaetophthalmus species-group of the genus *Culicoides* Latreille, 1809 (Diptera: Ceratopogonidae) from India with description of a new species, Кавказский энтомолог. бюллетень **CAUCASIAN ENTOMOLOGICAL BULL** 10(1): 161–164.
- Saha, D., & Mazumdar, A. (2014) The Use of Head Capsule Deformities in Chironomid Larvae (Diptera: Chironomidae) To Assess Environmental Pollution In Rice Fields Of Hooghly District, West Bengal, India, **IJSET - INTERNATIONAL JOURNAL OF INNOVATIVE SCIENCE, ENGINEERING & TECHNOLOGY**, Vol. 1 Issue 5, July 2014. [www.ijset.com](http://www.ijset.com) ISSN 2348 – 7968
- Nandi, M., & Mazumdar, A. (2014) Biting midges in the *Culicoides* shortti species-group (Ceratopogonidae: Diptera) from India, **MITT. INTERNAT. ENTOMOL. VER. FRANKFURT A.M.** ISSN 1019-2808 Band 39.Heft 1/2 Seiten 61 – 70 15. Juli 2014.
- Mitra, S., Harsha, R., Hazra, N., & Mazumdar, A. (2014) An assessment of the relative abundance of normal and parasitized white leafhopper *Cofana spectra* (Homoptera: Cicadellidae) affecting the paddy plants in West Bengal, India. **INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE, Cambridge University Press**, Vol. 34, No. 1, pp. 14–21, 2014 doi:10.1017/S1742758413000386. ISSN: 1742-7584
- Mitra, S., Harsha, R., Hazra, N., & Mazumdar, A. (2014) Estimation of Fitness of Normal and Stylopized Paddy Pest, White Leafhopper *Cofana spectra* (Distant) (Hemiptera: Cicadellidae), in West Bengal, India through Correlation of Life History Traits, **INTERNATIONAL JOURNAL OF INSECT SCIENCE**, Libertas Academia, 6:33-41. ISSN: 1179-5433
- Nandi, M., & Mazumdar, A. (2014) Revision of the subgenus *Diphaomyia* Vargas of *Culicoides* Latreille from India with description of a new species (Diptera: Ceratopogonidae) **ZOOTAXA** 3793(4): 465–474, ISSN 1175-5326 (print edition) (co-author: Mou Nandi), (published by Thomson Reuters in June 2013). **[Impact Factor 0.974]**
- Paul, N., Hazra, N., & Mazumdar, A. (2014) *Monopelopia mongpuense* sp. n., a phytotelmata midge from sub-Himalayan region of India (Diptera: Chironomidae: Tanypodinae), **ZOOTAXA** 3802 (1): 122–130, ISSN 1175-5326 (print edition), **[Impact Factor 0.974]**
- Paul, N., Harsha, R., & Mazumdar, A. (2014) A new species of *Palpomyia* Meigen (Diptera: Ceratopogonidae) described in all life stages from Shillong plateau, India. **ZOOTAXA** 3755 (4): 368–378, ISSN 1175-5326 (print edition). **[Impact Factor 0.974]**

- Harsha, R., & Mazumdar, A. **(2014)** Prevalence and Age Grading of *Culicoides* spp. (Diptera: Ceratopogonidae), Potent Vectors of Bluetongue Disease of Farm Animals in Bikaner, Rajasthan, **PROC ZOOLOGICAL SOCIETY OF INDIA** DOI 10.1007/s12595-014-0110-y.
  
- 2013** Saha, D., & Mazumdar, A. **(2013)** Deformities of *Chironomus* sp. larvae (Diptera: Chironomidae) as indicator of pollution stress in rice fields of Hooghly District, West Bengal. **JOURNAL OF TODAY'S BIOLOGICAL SCIENCES: RESEARCH & REVIEW (JTBSRR)** Open access ISSN 2320-1444 (Online) Vol. 2, Issue 2, page 44-54, December 30, 2013 JTBSRR Available on: [www.jtbsrr.in](http://www.jtbsrr.in)
  
- Paul, N., & Hazra, N., Mazumdar, A. (2013) Records of the genus *Paramerina* (Diptera: Chironomidae: Tanypodinae) from eastern Himalaya and Satpura Hill regions of India. **NEOTROPICAL ENTOMOLOGY [ENTOMOLOGICAL SOCIETY OF BRAZIL, SPRINGER]**, DOI 10.1007/s13744-013-0149-x, 2012, [**Impact Factor 0.675**].
  
- Saha, D., & Mazumdar, A. (2013) Deformities of *Chironomus* sp. larvae (Diptera: Chironomidae) as indicator of pollution stress in rice fields of Hooghly District, West Bengal. **JOURNAL OF TODAY'S BIOLOGICAL SCIENCES: RESEARCH & REVIEW (JTBSRR)**, ISSN 2320-1444, Vol. 2, Issue 2, 44-54, December 30, 2013.
  
- Nandi, M., & Mazumdar, A. (2013) Assignment of species to *Culicoides* ( Hoffmania) (Diptera: Ceratopogonidae) with addition of a new Indian species, **INTERNATIONAL JOURNAL OF DIPTEROLOGICAL RESEARCH, RUSSIA**, 24 (1): 47–56.
  
- 2012** Nandi, M., Mazumdar, A., Chaudhuri, P.K. **(2012)** Biting midges of the genus *Leehelea* Debenham (Diptera: Ceratopogonidae) in India. **ZOOTAXA [MAGNOLIA PRESS, NEW ZEALAND]**, 3399:53-60, 2012. [**Impact Factor 0.974**].
  
- Das, N., & Mazumdar, A. **(2012)** Four new species of the genus *Kiefferulus* Goegthbuer, 1922 (Diptera: Chironomidae) from Darjeeling Himalayas, India. **FAR EASTERN ENTOMOLOGIST [RUSSIAN ENTOMOLOGICAL SOCIETY, VLADIVOSTOK, RUSSIA]**, Vol. 253 October 2012: 1-23 (ISSN 1026 – 051X,
  
- 2011** **(2011) AUTHORS OF FLY NAMES** A preliminary list of all authors who have proposed Diptera names at the family-level or below edited by Neal L. Evenhuis, **BISHOP MUSEUM TECHNICAL REPORT No. 51** Published by Bishop Museum 1525 Bernice Street Honolulu, Hawaii 96817
  
- Majumdar, U., & Mazumdar, A. **(2011)** Chironomid flies of the genus *Glyptotendipes* Kieffer (Diptera: Chironomidae) from India with a short account of their biology. **AQUATIC INSECTS [INTERNATIONAL JOURNAL OF FRESHWATER ENTOMOLOGY, TAYLOR & FRANCIS]**, Vol.33, No.3, September 2011: 253-272. [**Impact Factor 0.496**]
  
- Mitra, S., & Mazumdar, A. **(2011)** A new species of the Genus *Malayaxenos* Kifune, 1981 (Strepsiptera: Corioxenidae) from India. **FAR EASTERN ENTOMOLOGIST, [RUSSIAN ENTOMOLOGICAL SOCIETY, VLADIVOSTOK, RUSSIA]**. 229: 7-10; ISSN 1026-051X.
  
- 2010** Das, N., Chaudhuri, P.K. & Mazumdar, A. **(2010)** Two new biting midges of *Brachypogon* Kieffer (Diptera: Ceratopogonidae) from India. **POLISH JOURNAL OF ENTOMOLOGY, BYDGOSZCZ**, 79: 455 – 461.

- Saha, N.C., Chaudhuri, P.K. & Mazumdar, A. (2010) Blood sucking midges of *Leptoconops* (*Holoconops* Kieffer) (Diptera: Ceratopogonidae) from India. **ZOOTAXA**, [MAGNOLIA PRESS, NEW ZEALAND] 2619: 49-55; ISSN:1175-5334. [Impact Factor 0.853]
- Basu, A., Ghosh, K., Hazra, N. & Mazumdar, A. (2010) Association of Exoenzyme- producing Bacteria with Chironomid larvae (Diptera: Chironomidae) in relation to the feeding habit. **ENTOMOLOGIA GENERALIS**, [JOURNAL OF GENERAL AND APPLIED ENTOMOLOGY, E.SCHWEIZERBART SCIENCE PUBLISHER, STUTTGART] 32 (3): 227-235, ISSN:0171-8177. [Impact Factor 0.167]

**Patents: Nil.**

## **Research**

### **Ph.D. Awarded**

- 2014 *Title of the thesis: Studies on the Polymorphic organization of the polytene chromosomes of some species of Chironomus (Diptera: Chironomidae). Name of the candidate: Mr.Prantap Sarkar.*
- *Title of the thesis: Revision of the Indian species of the genus Culicoides Latreille, 1809 (Diptera: Ceratopogonidae). Name of the candidate: Ms.Mou Nandi.*
  - *Title of the thesis: Systematics and biology of two Chironomine genera Chironomus Meigen and Kiefferulus Goetghebuer from eastern Himalaya (Diptera: Chironomidae). Name of the candidate: Mr.Nirmalya Das.*
- 2009 *Title of the thesis: Effects of Strepsipteran Parasitoids (Insecta: Strepsiptera) on Hoppers (Hemiptera: Cicadellidae) Injurious to paddy plants of West Bengal, India. 120pp. The University of Burdwan. Name of the candidate: Ms.Sangita Mitra.*
- 2007 *Title of the thesis: Systematic of Biting Midges of the Tribes Palpomyiini Enderlein and Sphaeromiini Newman (Diptera: Ceratopogonidae) of West Bengal, India.115pp.+Vplates. The University of Burdwan. Name of the candidate: Mr.Deshbandhu Sai.*
- 2006 *Title of the thesis: Systematics and Biology of the Subfamily Chironominae (Diptera: Chironomidae) of Eastern India. 194pp. The University of Burdwan. Name of the candidate: Mr. Uttaran Majumdar.*

### **Ph.D. registered**

1. *Title of the thesis: Morphological deformities of Chironomid larvae (Diptera: Chironomidae) occurring in rice agro-ecosystem of Gangetic West Bengal. Name of the candidate: Mr.Debnarayan Saha.*
2. *Title of the thesis: Community structure and diversity of Chironomine midges (Diptera: Chironomidae) in the paddy fields of West Bengal. Name of the candidate: Mr.Atanu Ghosh.*

3. *Title of the thesis: Bionomics of Culicoides sp. (Diptera: Ceratopogonidae) affecting livestock of West Bengal, India. Name of the candidate: Ms.Rupa Harsha.*
4. *Title of the thesis: Biosystematic studies of the subfamily Tanypodinae (Diptera: Chironomidae) from the Eastern Himalaya, India. Name of the candidate: Mr. Nilotpol Paul.*
5. *Title of the thesis: Studies on predaceous midges, Alluaudomyia Kieffer and Stilobezzia Kieffer, Ceratopogonini (Diptera: Ceratopogonidae) from West Bengal, India. Name of the candidate: Mr. Sudipta Sarkar.*

#### **M.Phil. Awarded**

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| 2004 | <i>Title of thesis: Preliminary observations of Morphology and some Ecological factors of Chironomids associated with Paddies of Burdwan University Crop Research Farm. The University of Burdwan. Name of the candidate: Sikha Mandal.</i>     |
| 2005 | <i>Title of thesis: Study of Morphology and Polytene Chromosomes Glyptotendipes barbipes (Staeger) from India (Diptera: Chironomidae). 22pp. The University of Burdwan. Name of the candidate: Soumi Nandi.</i>                                 |
| 2010 | <i>Title of thesis: Effect of Temperature and food on the development period of Glyptotendipes barbipes (Staeger), an abundant pond-dwelling Chironomid. 79pp. The University of Burdwan. Name of the candidate: Saramita De (Chakravarti).</i> |

#### **Reviewer**

Pakistan Journal of Zoology

Journal of Economic Entomology, Entomological Society of America, Oxford University Press

Journal of Insect Science, Entomological Society of America, Oxford University Press