

## **CURRICULUM VITAE of JAYITA SENGUPTA**

**Address:**Diptera Section, Praani Vigyan Bhavan,  
Zoological Survey of India. Ministry of Environment,  
Forest and Climate Change. Govt. of India “M”Block,  
New Alipore, Kolkata-700053.

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### **BASIC INFORMATION**

- Date of Birth: March 19, 1989
- Gender (M/F/T): Female
- Category Gen/SC/ST/OBC: General
- Whether differently abled (Yes/No): No.

### **SUMMARY**

Ms Sengupta has joined Zoological Survey of India on 12th March, 2014 as Junior Zoological Assistant. She got her posting at Diptera Section, ZSI (H.Q), Kolkata. She has been assigned to study the group of flower flies (Insecta: Diptera: Syrphidae). She got promoted to the post of Senior Zoological Assistant on 3rd July, 2017. Presently she is working on taxonomy and diversity pattern of Hoverflies as well as also looking after the maintainance of Syrphidae at NZC of Diptera Section.

### **ACADEMIC QUALIFICATION**

**Perusing PhD (2016-Present)(Registered via NET score card: UGC JRF 69)**

**University of Calcutta**

"Studies On Taxonomy Diversity And Distribution Pattern Of Hover Flies (Insecta: Diptera: Syrphidae) Along The Western Himalaya Landscape Of Himachal Pradesh, India."

**M.Sc. (2010-2012)**

**University of Calcutta**

**M.sc in Zoology (1<sup>st</sup> Class)**

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**B.SC (2007-2010)**

Presidency College (University of Calcutta)

**Zoology (Hons.)(1<sup>st</sup> Class)**

**HIGHER SECONDARY (2005-2007)**

MONMOTHO NATH GIRLS SCHOOL

**(SCIENCE STREAM)**

**MADHYAMIK (1995-2005)**

BARRACKPORE RAMKRISHNA VIVEKANANDA MISSION

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### **WORK EXPERIENCE**

- 2017-Present

**SENIOR ZOOLOGICAL ASSISTANT**

**ZOOLOGICAL SURVEY OF INDIA**

**Posted in Diptera Section**

- 2014-2017

**JUNIOR ZOOLOGICAL ASSISTANT**

**ZOOLOGICAL SURVEY OF INDIA**

**Posted in Diptera Section**

- 2012-2014

**GUEST LECTURER**

**CHAKDAHA COLLEGE**

**Posted in Zoology department**

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### **PROJECTS PARTICIPATED**

1. Diversity and Distribution of Diptera in the Sonamukhi Protected Forest, West Bengal. (2013-2016:status:completed)
2. Taxonomic studies on Tabanidae (Insecta: Diptera) of West Bengal. (2013-2016:status:completed)
3. Faunal Diversity of Satkosia and Baisipalli WLS, Odisha. (2016-2018:status:Completed)
4. Fauna of Terai Grasslands of Gangetic Plains: Diptera. (2016-2019:status:Completed)
5. Fauna of Assam: Diptera (2017-2019:status:ongoing)
6. Faunal Diversity of Wildlife Sanctuaries of West Bengal (Bethuadahari WLS, Bibhutibhushan WLS, Ballavpur WLS, Ramnabagan WLS) (2019-status:ongoing)

### **SCIENTIFIC CONTRIBUTION:**

- i. Maintenance of collections, putting preservatives, changing drawer timely for proper maintenance of National Zoological Collections.
- ii. Labelling and identification of collections and preparation of registration labels.
- iii. Care and sorting of collection, shifting of collected specimens from printing board to insect cabinet/ drawer.
- iv. Assistance in field surveys & research work.
- v. Collection & preservation of Zoological specimens in the field.
- vi. Making RFD report for the section.

### **SURVEY DONE**

12 surveys has been done till date (2014-2019) under various projects of the Diptera section, ZSI (H.Q), Kolkata.

### **SEMINAR/WORKSHOP/TRAINING PROGRAMME ATTENDED**

1. Attended "In House Training Programme" organized by the Department of Zoology during the year 2010, under the "Star College Scheme, Department of Biotechnology, government of India."
2. Participated a one day satellite symposium on "Biodiversity: Technology Domains & Spatial Scale Analysis", organized by Department of Zoology, University of Calcutta on 30th March, 2011.
3. Attended a seminar on breast cancer & its measures held at Department of Zoology, University of Calcutta on 21st November, 2011.

4. Have given a seminar based on ‘Climatic Impact on Terrestrial Ecosystem’ under Dr. Parthib Basu (University of Calcutta) as a part of M.Sc elective paper.
5. Attended Science Communication Workshop on “Research ethics, Science communication & Manuscript writing” by The Wellcome Trust/DBT/India Alliance held at NISER, 17 December, 2014.
6. Attended Symposium on “Evolution: Molecules to Life” jointly organized by KIIT, ILS & NISER held at KIIT University Bhubaneswar from 18th Dec to 21st Dec 2014.
7. Attended a “National Conference on Animal Taxonomy-Challenges and Prospects” organized by Zoological Survey of India, Ministry of Environment, Forest & Climate changes held at ZSI (H.Q), New Alipore, Kolkata.
8. Attended a National Seminar on “**Spare the Nature, Make the Earth Green.**” organized by Sonamukhi College, Bankura 5th -7th January, 2017.
9. Attended a National Seminar on “**Recent Advances in Biological Science** “has been organized by Gurudas College Kolkata. Held on 17th-18th February, 2017 at Gurudas College, Kolkata.
10. Attended a National Seminar on Sustainable Environment and Healthcare; has been organized by Dr. Tarak Nath Podder Memorial Foundation, In Collaboration with Department of Zoology, Calcutta University. Held on 5th June, 2017 at Indian Science Congress Association Auditorium, Kolkata.
11. Participated in the Training program for online use of Zoo Record on 25th July, 2017 at H.Q, Kolkata.
12. Attended an International Seminar “INTERZOOCON” organized by Department of Zoology, University of Calcutta, Kolkata, on 1st to 3rd February, 2018 at Ramakrishna Mission and Cultural Institute, GolPark. Kolkata.

#### **POSTER /ORAL PRESENTATION**

1. Presented Poster based on ‘**Diversity of Diptera along an altitudinal gradient in the Western Himalayas: a case study in the Kalatop–Khajjiar Wild Life Sanctuary, Himachal Pradesh.**’ presented at 83rd Annual meeting of the Society of Biological Chemists of India, (held at Bhubaneswar from 17–21 December 2014).
2. Presented Poster based on "**Relative abundance and seasonal variation of Hover fly (Insecta: Diptera: Syrphidae) species composition, across the dry deciduous forest ecosystem: a case study in the Sonamukhi Protected Area, Bankura, West Bengal,**

**India.** in a National Seminar on “**Spare the Nature, Make the Earth Green.**” organized by Sonamukhi College, Bankura 5-7 January, 2017.

3. Presented Poster based on Topographical Pattern of Hover fly (Insecta: Diptera) distribution along an altitudinal gradient: Inconsistency in environmental factors and latitudinal trends. in a National Seminar on "**Recent Advances in Biological Science**" Organized by Gurudas College Kolkata. Held on 17th-18th February, 2017 at Gurudas College, Kolkata.

4. Presented Poster based on “**Taxonomic Richness of Himalayan Hover flies (Insecta: Diptera: Syrphidae): A Comparative Account of Regional Differences in Eastern and Western Himalayas.**” in a seminar on Sustainable Environment and Healthcare organized by Dr. Tarak Nath Podder Memorial Foundation in collaboration with Department of Zoology, Calcutta. 5th June, 2017.

5. Presented Poster based on **Conservation of wetland implements conservation of species diversity: a case study on diversity of dipteran flies from Renuka wetland, Himachal Pradesh, India.**"at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramakrishna Mission, Kolkata.

6. Presented Poster based on **Conservation of wetland implements conservation of species diversity: a case study on diversity of dipteran flies from Renuka wetland, Himachal Pradesh, India.** at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramakrishna Mission, Kolkata.

7. Given oral presentation based on **Forecast of Distribution of Pollinator *Episyrphus (Episyrphus) Balteatus (De Geer, 1776) (Insecta: Diptera: Syrphidae) Across Elevational Gradient of Himachal Pradesh.*** At International Conference on Sustainable Environment and Healthcare, Kolkata, 2019. December 21-22. Jadavpur University, Kolkata,

#### **RESEARCH INTEREST:**

I am interested to carry out my researches at the field of taxonomy and its integrated approaches of pollinating hoverflies. I have submitted my thesis on the same.

#### **LECTURES GIVEN**

Jayita Sengupta has given Lecture upon “Akramanattyak Parak Pragati (Kit potongo) ebong Jalobayu poribortner karone khoti briddhi. ebong Machi: Bharat Borsher Jib Baichitryo” to the Students of National Green Skill Development Programme at ZSI (H.Q), Kolkata.

#### **EXCURSION ATTENDED**

1. Completed a project on the Marine Animal Behavior & Impacts of Human Activities on this Marine Biodiversity at Gulf of Mannar, Mandapam, Tamilnadu from January 6th to 10th, 2010.
2. Completed a small Behavior study on coral reefs & its degradation due to pollution at Krusedie Island, Tamilnadu on 7th January, 2010.
3. Participated a Wild life behavior study at Rajiv Gandhi National Park, Nagrahole, between January 11th-14th, 2010.
4. Completed a one-day long short project on the intertidal species behavior at Jhorkhali Island, Sundarban, West Bengal on 22nd November, 2011.

#### **AWARDS RECEIVED**

1. Obtained 7<sup>th</sup> rank in Graduation examination (2007-2010) at the University of Calcutta.
2. Obtained “Indira Gandhi National Post Graduation Scholarship for Single Girl Child” in 2011-12.
3. Obtained 69<sup>th</sup> rank in National Eligibility Test (NET) (UGC JRF) at December, 2013
4. Best Poster award for poster presentation at Environmental Science division for the Poster ‘Diversity of Diptera along an altitudinal gradient in the Western Himalayas: a case study in the Kalatop –Khajjiar Wild Life Sanctuary, Himachal Pradesh.’ At 83rd Annual meeting of the Society of Biological Chemists of India, (held at Bhubaneswar from 17–21 December 2014).

#### **PUBLICATION (2014-PRESENT)**

##### **Book Chapter: 6**

1. Banerjee D, Naskar A **Sengupta J**, Hazra S, Mridha R and Parui P (2017). **Insecta: Diptera**. In: Current status of fresh water faunal diversity in India. (Eds. Dr. Kailash Chandra, K.C. Gopi, D.V. Rao, K. Valarmathi and J.R.B Alfred), Director, *Surv. India*. Kolkata, India: Chapter **30** 467-485.

2. **Sengupta J**, Naskar A and Banerjee D 2017. **Insecta: Diptera** In Faunal Diversity Kalatop-Khajjiar Wildlife Sanctuary, District Chamba, Himachal Pradesh. (Eds. Dr. Kailash Chandra) Director, *Zool. Surv. India*. Kolkata, India: Chapter **5**: 31-58.
3. Banerjee D, Naskar A **Sengupta J**, Hazra S and Maity A. (2018). **Insecta: Diptera**. In: Faunal Diversity of Indian Himalaya. (Eds. Chandra, K., Gupta, D., Gopi, K.C., Tripathy, B. and Kumar, V.), Director, *Zool. Surv. India*. Kolkata, India: Chapter **41** 727-760.
4. **Sengupta. J**, Naskar. A, and Banerjee D. (2018). **Insecta: Diptera**. In: Faunal Resources of Cold Desert Spiti Valley and Chandratat Lake. (Ed. Chandra, K.), Director, *Zool. Surv. India*. Kolkata, India: Chapter **5** 29-46.
5. **Sengupta J**, Naskar A, and Banerjee D. (2018). **Insecta: Diptera**. In: Faunal Diversity of Chail Wildlife Sanctuary. (Ed. Chandra, K.), Director, *Zool. Surv. India*. Kolkata, India: Chapter **9** 93-100.
6. Banerjee D, Naskar A **Sengupta J** and Hazra S. (2019). **Insecta: Diptera**. In: Faunal Diversity of Mangrove Ecosystem in India. (Eds. Chandra, K., Gopi, K.C., Mishra, S.S. and Raghunathan, C.), Director, *Zool. Surv. India*. Kolkata, India: Chapter **14** 317-345.

#### **Full Paper: 25**

1. Maity. A, Naskar A, Mukhopadhyay. E, Hazra. S, **Sengupta J**, and Banerjee. D 2015. Taxonomic studies on Tabanidae (Insecta: Diptera) from Himachal Pradesh, India. *International Journal of Fauna and Biological Sciences. International Journal of Fauna and Biological Studies*. **2 (4)**: 43-52.
2. Mukhopadhyay. E, Naskar A, Hazra. S, Maity. A, Sengupta. J, Parui. P, & Banerjee. D. 2015. A check list of Indian march flies (Insecta: Diptera: Bibionidae). [zsi.gov.in/App/important\\_links.aspx?link=209 & reg=209](http://zsi.gov.in/App/important_links.aspx?link=209 & reg=209)
3. Mukhopadhyay. E, Naskar A, Hazra. S, Maity. A, Sengupta. J, Parui. P, & Banerjee. D. 2015. A check list Indian Thick headed flies (Insecta: Diptera: Conopidae) [zsi.gov.in/App/important\\_links.aspx?link=209 & reg=209](http://zsi.gov.in/App/important_links.aspx?link=209 & reg=209)
4. Maity. A, Mukhopadhyay. E, Naskar A, Hazra. S, Sengupta. J, Parui. P, & Banerjee. D. 2015. A check list of Indian big headed fly (Insecta: Diptera: Pipunculidae) [zsi.gov.in/App/important\\_links.aspx?link=209 & reg=209](http://zsi.gov.in/App/important_links.aspx?link=209 & reg=209)
5. Maity A, Naskar A, Hazra S, **Sengupta J**, Parui P, Homechaudhuri S and Banerjee D. 2016. New distributional records of Tabanidae (Insecta: Diptera) from different geoclimatic regions of West Bengal. *Journal of Entomology and Zoology Studies*. 2016; **4(4)**: 1291-1298.

6. Maity A, Naskar A, **Sengupta J**, Hazra S, Parui P, Homechaudhuri S and Banerjee D. 2016. An annotated Checklist of Horseflies (Diptera: Tabanidae) from India with remarks on Surra disease vectors. *Journal of Zoology Studies*. **3(4)**: 50-81.
7. **Sengupta J**, Naskar A, Maity A, Hazra S, and Banerjee D. 2016. New Distributional Records and Annotated Keys of Hover Flies (Insecta: Diptera: Syrphidae) From Himachal Pradesh, India. Jayita Sengupta, Atanu Naskar, Aniruddha Maity, Surajit Hazra and Dhriti Banerjee. *Adv. Zool.* **37(1)**: 29-52.
8. **Sengupta J**, Naskar A, Maity A, Hazra S, Mukhopadhyay E, Ghosh S and Banerjee D. 2016. An updated distributional account of Indian hoverflies (Insecta: Diptera: Syrphidae). *Journal of Entomology and Zoology Studies*. **4(6)**: 381-386.
9. Maity A, Naskar A, Hazra S, **Sengupta J**, Parui P, Homechaudhuri S and Banerjee D. 2016. Taxonomic Notes on Tabanidae (Insecta: Diptera) of Sundarban Biosphere Reserve and Associated Mangrove Ecosystem of Coastal region of West Bengal, India. *Journal of Advanced Zoology*. **37(2)**: 96-113
10. Maity A, Naskar A, Hazra S, **Sengupta J**, Parui P and Banerjee D. 2017. A New Species of the Genus *Tabanus* Linnaeus (Diptera: Tabanidae) From the West Bengal. *Indian Journal of Entomology*. **79(1)**: 6-8.
11. Maity A, Naskar A, Hazra S, **Sengupta J**, Parui P, Homechaudhuri S and Banerjee D. 2017. Taxonomic Accounts of Horse Flies (Diptera: Tabanidae) From Arid Zone, Part of Chotanagpur Plateau, West Bengal. *Mun. Ent. Zool.* **12(2)**: 419-429.
12. **Sengupta J**, Naskar A, and Banerjee D. 2017. *Aedes aegypti* (Linnaeus, 1762): An Invasive Alien Diptera from India: A Global Threat. *Envis NewsLetter*. **23(2)**: 17-19
13. Mukhopadhyay E, Hazra S, **Sengupta J**, Parui P and Banerjee D, 2017. A taxonomic approach to the genus *Culicoides* (Diptera: Ceratopogonidae) with six new records of its species from coastal-saline zone of West Bengal. *Journal of Entomology and Zoology studies*. **5(4)**: 1912-1921.
14. Maity A, Naskar A, Hazra S, **Sengupta J**, Parui P and Banerjee D. 2017. Mapping of Tabanids fauna (Insecta: Diptera: Tabanidae) along the lower most gangetic plane of India: A taxonomic approach. *Indian Journal of Entomology*. **79(3)**: 354-375.
15. **Sengupta J**, Naskar A, Maity A, Hazra S, Sarkar NK and Banerjee D. 2017. Mapping of Hover flies (Insecta: Diptera: Syrphidae) from Darjeeling Himalaya, A part of Indo-



Burmese hot spot region: A taxonomic approach. *Indian Journal of Entomology*. **79(3)**:336-353.

16. **Sengupta. J.**, Naskar. A., Maity. A., Homechaudhuri. S., and Banerjee. D. 2018. Distributional Scenario of Hover Flies (Insecta: Diptera: Syrphidae) From the State Of West Bengal. *Munis Entomology & Zoology Journal*. **13(2)**:447-457.
17. **Sengupta. J.**, Naskar. A., Maity. A and Banerjee. D. (2018). Effects of Selected Environmental Variable upon the Distribution of Hover Fly (Insecta: Diptera: Syrphidae) Along an Altitudinal Gradient. *Int J Adv Life Sci Res*. **1(3)**1-6. doi:10.31632/ijalsr.2018v01i03.001.
18. **Sengupta. J.**, Naskar. A., Maity. A., Homechaudhuri, S, and Banerjee. D. (2018). A Taxonomic Account of Hover Flies (Insecta: Diptera: Syrphidae) with 4 New Records from Cold Dry Zones of Himachal Pradesh, India. *Int J Adv Life Sci Res*. **1(4)**:13- 30. doi: <https://doi.org/10.31632/ijalsr.2018v01i04.003>
19. **Sengupta J**, Naskar A, Maity A, Homechaudhuri S, and Banerjee D. 2019. A short taxonomic account of dipteran flies from the Renuka Wetland and adjacent Sanctuary, Himachal Pradesh, India. *Munis Entomology & Zoology Journal*. **14 (1)**: 224-231.
20. Wachkoo A. A, Steenis J. V, Rather Z. A, **Sengupta J** and Banerjee D. 2019. First record of the genus *Spilomyia* (Diptera, Syrphidae) from the Oriental region. *Turkish Journal of Zoology*. **43**:239-242. doi: <https://doi.org/10.3906/zoo-1811-27>
21. **Sengupta J**, Naskar A and Banerjee D, 2019. Pollinating Diptera: The Forgotten Superhero. *ENVIS Newsletter*. **25 (1-4)**: 34-36.
22. **Sengupta. J.**, Naskar. A., Homechaudhuri, S, and Banerjee. D. (2019). Diversity of Hover Flies (Insecta: Diptera: Syrphidae) with 3 New Records from Shivalik Hill Zone of Himachal Pradesh, India. *Int J Adv Life Sci Res*. **2(3)**:39-5 doi: <https://doi.org/10.31632/ijalsr.2019v02i03.005>
23. **Sengupta. J.**, Naskar. A., Homechaudhuri, S, and Banerjee. D. (2019). Diversity of Hover Flies (Insecta: Diptera: Syrphidae) with 3 New Records from High Hill Zone of Himachal Pradesh, India. *Int J Adv Life Sci Res*. **2(4)**:21-37. doi: <https://doi.org/10.31632/ijalsr.2019v02i04.004>
24. **Sengupta. J.**, Naskar. A., Parui. P., Homechaudhuri. S., and Banerjee. D. 2019. A new record from the genus *Callicera* panzer, 1809 (Insecta: Diptera: Syrphidae) from India. *Munis Entomology & Zoology Journal*. **15(1)**:140-144.

25. **Sengupta, J.**, Naskar, A., Maity, A., Parui, P., Homchaudhuri, S., & Banerjee, D. (2020). A new record of the hoverfly genus *Dasysyrphus* Enderlein, 1938 (Insecta: Diptera: Syrphidae) from India. *Journal of Threatened Taxa*, 12(4):15503-15506.

**Abstract: 9**

1. **Sengupta, J.**, Maity, A., Ansar, W, Naskar, A Hazra, S, Ghosh, S, Sarkar, NK, Banerjee, D (2014) Diversity of Diptera along an altitudinal gradient in the Western Himalayas: a case study in the Kalatop --Khajjiar Wild Life Sanctuary, Himachal Pradesh. 83rd Annual meetings of SBC (I). Pp 5.
2. Dutta S, **Sengupta J**, Naskar A, Maity A, Kumar V, Sarkar NK, & Banerjee D (2015) Ecological factors favoring Hover flies ( Diptera: Syrphidae) population in the Eastern Himalyas. Environmental impact on biodiversity on plant development. Pp 67.
3. **Sengupta J** and Banerjee D. (2017) Relative abundance and seasonal variation of Hover fly (Insecta: Diptera: Syrphidae) species composition, across the dry deciduous forest ecosystem: a case study in the Sonamukhi Protected Area, Bankura, West Bengal, India. Book of Abstracts. National Seminar on "Spare the Nature, Make the Earth Green." Pp 22
4. **Sengupta J**, Naskar A, Maity A, Hazra S, Hore G and Banerjee D.(2017). Topographical Pattern of Hover fly (Insecta: Diptera) distribution along an altitudinal gradient: Inconsistency in environmental factors and latitudinal trends. Book of Abstracts. National Seminar on "Recent Advance In Biological Sciences." Pp 19
5. Hore G , Parui P, Ansar W, **Sengupta J**, Saha G and Banerjee D.(2017). Records of some forensically important domestic cat (*Felis catus*) carcass from West Bengal, India. Book of Abstracts. National Seminar on "Recent Advance In Biological Sciences." Pp 23
6. **Sengupta J**, Naskar A, Homechaudhuri S and Banerjee D (2017). Taxonomic Richness of Himalayan Hover flies (Insecta: Diptera: Syrphidae): A Comparative Account of Regional Differences in Eastern and Western Himalayas. National Seminar on Sustainable Environment and Health Care, Kolkata, 05.06.2017. Kolkata: Dr. Tarak Nath Poddar Memorial Foundation. Pp 29
7. **Sengupta J**, Naskar A, Homechaudhuri S, and Banerjee D (2018). Conservation of wetland implements conservation of species diversity: a case study on diversity of dipteran flies from Renuka wetland, Himachal Pradesh, India. Poster session presented at International Conference on Zoology, Centenary Celebration of Department of Zoology,

University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramakrishna Mission, Kolkata. Pp 62.

8. **Sengupta J**, Naskar A, Homechaudhuri S, and Banerjee D (2018). Conservation of wetland implements conservation of species diversity: a case study on diversity of dipteran flies from Renuka wetland, Himachal Pradesh, India. Poster session presented at International Conference on Zoology, Centenary Celebration of Department of Zoology, University of Calcutta, Kolkata, 2018. February 1-3; Golpark Ramakrishna Mission, Kolkata. Pp 62.
9. **Sengupta. J.**, Naskar. A.and Banerjee. D. (2019). Forecast of Distribution of Pollinator *Episyrphus (Episyrphus) Balteatus* (De Geer, 1776) (Insecta: Diptera: Syrphidae) Across Elevational Gradient of Himachal Pradesh. International Conference on Sustainable Environment and Healthcare, Kolkata, 2019. December 21-22. Jadavpur University, Kolkata, Pp 130.

#### **OTHERS**

Completed a 6-years course on Indian BALLET dance under Mrs. Momota Shankar Dance Ballet Group. I have trekked “Bromhogiri Hills” at Karnataka, in January, 2010.