



# Dr. Jaya kishor Seth

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## Education

- 2020**                      **Doctorate of Philosophy (Zoology)**  
*Berhampur University, Berampur-760007, Ganjam, Odisha, India*  
*Thesis title: Phylogenetic analysis of species of the family Leiognathidae using DNA barcoding and assessment of ichthyofaunal diversity of Gopalpur-on-Sea*
- 2019**                      **Biostatistics and Mathematical Biology**  
*12 weeks online course offered by Swayam, Punjab Central University/UGC/ MHRD*
- 2005**                      **Master of Science in Zoology**  
*Rajendra College(Autonomus), Sambalpur University, Bolangir-760007, Odisha, India*  
*Specialization: Molecular Genetics, Cytogenetics*

## Area of Specializations

**Teaching:**            Systematics, Biodiversity, Biostatistics, Invertebrate, Biophysics, Evolution, Classical Genetics, Clinical Cytogenetics and Cancer Biology

**Research Interest:**    Molecular Systematics, Biodiversity and Conservation Biology, Biology of invasive alien species, Evolutionary Biology

## Administrative Responsibilities

2014- till date: Treasurer, Alumni Association, P.G. Department of Zoology, Berhampur University

2018- Superintendent (In-Charge) Jogendra Boys Hostel, Berhampur University

2019- Nodal Officer, Skill Based Modular programme, Berhampur University Study Centre, OSOU

2020- till date: Superintendent Jogendra Boys Hostel, Berhampur University

2020-till date: Member, Unnat Bharat Abhiyaan Cell, Berhampur University

## Professional Experiences

1. Zoological Assistant: Zoological Survey of India (25<sup>th</sup> February 2008 to 16<sup>th</sup> September 2011)
2. Junior Lecturer: NSCB college, Sambalpur (21<sup>st</sup> September 2011 to 21<sup>st</sup> December 2011)
3. Assistant Professor: P.G. Department of Zoology, Berhampur University (26<sup>th</sup> December 2011 to till date)

# Doctoral Student Guidance

1. Name of the student: Dilraj Puvala, Topic: *Studies on the fresh water fishes of Western Odisha*, Year of Registration: 2020, Year of Completion/ In-progress: In Progress

## Professional Affiliation

1. Reviewer Indian Journal of Geo-Marine Science
2. Reviewer Journal of Fisheries
3. Reviewer Indian Journal of Science and Technology
4. Reviewer Thalassas: An International Journal of Marine Sciences
5. Reviewer Records Zoological Survey of India

## Conferences/ Seminar Abstract/Poster/Paper Presented /attended/Invited Talk

1. Seth, J.K., "Sunderbans: its diversity and threat", Abstract presented in "National Seminar on Ecotoxicology and Human Health" organized by P. G. Department of Zoology, Berhampur University, 8<sup>th</sup>-9<sup>th</sup> January, 2012.
2. Seth, J. K., Mishra, G., Sahoo, S., "Ichthyofauna of Sunderbans and its threat", Abstract presented in "National Seminar on Man and Environment" organized by the P. G. Department of Zoology, Berhampur University, 10<sup>th</sup> -11<sup>th</sup> June, 2012.
3. Seth, J.K., Behera, S., "Behavioural pattern of captive deer (*Axis axis*) in the Zoological Garden of Berhampur University", Abstract presented in "National Seminar on Man and Environment" organized by the P. G. Department of Zoology, Berhampur University. 10<sup>th</sup> -11<sup>th</sup> June, 2012.
4. Seth, J.K, Sahoo, S., "Fish diversity at Gopalpur-on-Sea during 2012", Abstract presented in "National Seminar on Marine Biodiversity and Coastal Pollution" organized by P.G. Department of Marine Science, Berhampur University, 25<sup>th</sup>- 26<sup>th</sup> March, 2013.
5. Seth, J.K., "Karyomorphology of the pony fishes (Leiognathidae: Perciformes)", Abstract presented in "National Seminar on Current trend on animal science research " organized by P.G. Department of Zoology, North Orissa University, 21<sup>st</sup> -22<sup>nd</sup> March 2014.
6. Seth, J.K., "Adverse Impact of Global Climate Change and Irregular Monsoon , Agriculture, Aquaculture and Capture fishery in Coastal India and its Management", paper presented in "National Seminar on Climate Change and marine fish diversity " organized by AABAHANA in collaboration with Department of Zoology, Berhampur University, Odisha, 26<sup>th</sup> -27<sup>th</sup> March, 2016.
7. Seth, J.K., "People Biodiversity Register and Human Right Protection", Abstract presented in "National Seminar on Violation of human right in contemporary India-challenges and prospective" organized by Department of History, Berhampur University , 18<sup>th</sup> -19<sup>th</sup> September, 2017.
8. Seth, J.K and Barik, T.K., "Geometric morphometric" is gaining momentum for morphological analysis in Biological science: a case study", Abstract presented in "National seminar on recent trends in microbiology and biotechnology" organized by MITS School of Biotechnology, Bhubaneswar , 16<sup>th</sup> -17<sup>th</sup> March, 2018.
9. Seth, J.K and Barik, T.K., "Studies on the shape variation in the pony fishes (family: Leiognathidae) of Gopalpur-on-Sea odisha coast, India", Abstract presented in "National seminar on Perspective of Human Health, Microbial Biotechnology and Innovation" organized by Vidyasagar University, Midnapore, West Bengal, 27<sup>th</sup> -29<sup>th</sup> April, 2018.

10. Participated in National Seminar on “Plastic Pollution and Coastal Environment” organized by Zoological Survey of India, Gopalpur-on-Sea, 5<sup>th</sup> June, 2018.
11. Mohanty, S.R., Seth, J.K and Mohapatra, A., “Taxonomic study of order Beloniformes along Odisha Coast”, Poster presented in “National conference on Crossroads of Biological Science and its Applications (CBSA-2109)” organized by P.G.Department of Zoology, Berhampur University, 15<sup>th</sup>-16<sup>th</sup> February, 2019.
12. Seth, J.K., Mohapatra, S., Mishra, P. and Behera, Rajashree., “Studies on the invasive alien species yellow crazy ant: *Anoplolepis gracilipes* (Smith 1857) and its impact with special reference to district Ganjam, Odisha,India”, Poster presented in “National conference on Science and Technology: Rural Development” Organized by Indian Science Congress Associations, Bhubaneswar chapter, KIIT University, 13<sup>th</sup> -14<sup>th</sup> December, 2019.
13. Seth, J.K., “Cons overshadow the pros while dealing with invasive alien species (IAS): critical analysis is the need of the hour”, Abstract presented in “National conference Advances and Challenges in Biological Sciences ” organized by P.G.Department of Zoology, Berhampur University, 12<sup>th</sup>-13<sup>th</sup> February, 2020.
14. Seth, J.K., “Role of DNA Barcoding in Biodiversity Conservation”, **Invited talk** in “National webinar on “Recent trend in Biological Sciences” organized by Department of Botany, Sonepur College, Sonepur on 15<sup>th</sup> September , 2020.

## Refreshers Courses/ Short-term Courses/Workshops attended/ Faculty Development Programme

1. “Monitoring / Estimation of Tigers, Co-Predators/ prey and habitat at Sunderbans”, Organized by Sunderban Tiger Reserve, West Bengal, India, 4<sup>th</sup> -8<sup>th</sup> March, 2010.
2. “IX refresher course on collection and preservation Technique of Zoological specimens”, Organized by Zoological Survey of India (MoEF), 16<sup>th</sup> -19<sup>th</sup> March, 2010.
3. “National Training workshop on conservation and management of Mangroves”, organized by GEER foundation Gujrat in collaboration with MoEF, 1<sup>st</sup> -5<sup>th</sup> April, 2010.
4. “Exhibition cum seminar on “Climate change: Global warming and sustainable development” held at Sunderban MahaVidyalaya, Kakdwip, West Bengal, 19<sup>th</sup> -21<sup>st</sup> January, 2011.
5. “Workshop cum training programme on “Biotechnology and Bioinformatics Tools and techniques”, organized by Bioinformatics Infrastructure Facility centre, Berhampur University, Odisha, 21<sup>st</sup> -22<sup>nd</sup> March, 2012.
6. “Orientation Course”, at Academic Staff College, Sambalpur University, 23<sup>rd</sup> July -19<sup>th</sup> August, 2012.
7. “Workshop-cum-Training Programme on “Application of Bioinformatics tools in Biological Science teaching and Research”, organized by Bioinformatics Infrastructure Facility centre, Berhampur University, Odisha, 22<sup>nd</sup> -24<sup>th</sup> March, 2013.
8. Training programme on “Forest Ecosystem, Biodiversity and Climate change: Vulnerable and Adaption Strategies” at ICFRE, Dehradun, 9<sup>th</sup> -13<sup>th</sup> December, 2013.
9. National Workshop on “Bioinformatics and Biodiversity Conservation”, organized by Ganapati Sabat Foundation at Youth Hostel, Gopalpur-on-Sea, 1<sup>st</sup> February, 2014.
10. “UGC sponsored short term course on use of SPSS in data analysis” at Academic staff college, Sambalpur University, 19<sup>th</sup> -21<sup>st</sup> April, 2014.

11. National Workshop on “Biotechnology for Economic Enhancement of Rural Community in Southern Region of Odisha” organized by Post Graduate Department of Zoology, Berhampur University, Berhampur, Odisha Sponsored by DBT and in association with Socio Cultural Development Centre, 11<sup>th</sup> September, 2015.
12. National Workshop on “Workshop cum Training on Recent Development and future trends of Bioinformatics in Biological science” organized by Post Graduate Department of Zoology, Berhampur University, Berhampur, Odisha Sponsored by DBT, 26<sup>th</sup> -27<sup>th</sup> December, 2016.
13. DBT Sponsored 21 days Refresher cum training on “Application of metagenomics and proteomics Approaches in the crossroad of Biological Science” organized by Department of Microbiology, Vidyasagar University, 25<sup>th</sup> October-18<sup>th</sup> November, 2017.
14. Workshop on Basic aspects and application on NMR spectroscopy Organized by IISER Berhampur and National Magnetic Resonance Society India, 24<sup>th</sup> -26<sup>th</sup> September, 2018.
15. Five days training on “Molecular Biology, Next Generation Sequencing and Bioinformatics” at Yaazh Xenomics, 326, 1 st Floor, Thadagam Road, Near GCT College, Coimbatore-641013, Tamil Nadu, India, 16<sup>th</sup> -20<sup>th</sup> October, 2018.
16. One day workshop on “Role of IPRs and Innovation Management in University Ecosystems” at Khalikote University, Berhampur Organized by National Research Development Corporation and Khalikote University, 30<sup>th</sup> October, 2018.
17. One day workshop on “Faunal diversity of Chilika Lagoon” Organised by EBRC, Zoological Survey of India, 26<sup>th</sup> July, 2019.
18. Six-days workshop on “Tangled Bank” Organised by Indian National Young Academy of Science and Department of Botany, Punjab Central University, 31<sup>st</sup> May- 5<sup>th</sup> June, 2020.
19. Three-days virtual workshop on “Blue Planet” Organised by Indian National Young Academy of Science and Department of Geology, Punjab Central University, 7<sup>th</sup> -9<sup>th</sup> June, 2020.
20. **Five-days Faculty Development Programme** on “Mathematics for Biological Sciences” Organised by Faculty Development Centre, UGC-MHRD, Savitribai Phule Pune University, 15<sup>th</sup> -20<sup>th</sup> June, 2020.
21. Seven-days virtual workshop on “Science Leadership” Organised by Indian Science Academies and Punjab Central University, 22<sup>nd</sup> -28<sup>th</sup> June, 2020.
22. **Seven-days Faculty Development Programme** on “Earth & Environment Responses During COVID - 19” Organised by Faculty Development Centre, UGC-MHRD, Savitribai Phule Pune University, 11<sup>th</sup> -17<sup>th</sup> July, 2020.
23. **Twenty-One days Faculty Development Programme** on “Adopting to Online Teaching Learning Technologies” Organised jointly by Dr B R Ambedkar University Delhi and Dr B R Ambedkar University Srikakulam, 16<sup>th</sup> November to 07<sup>th</sup> December 2020.

## Publications (Articles/Edited Volume)

1. **Seth, J. K.** and Sahoo, S. 2013. First record of *Pempheris vanicolensis* Cuvier, 1831 from the Odisha coast, India. *International Journal of Advanced life Science*, 6(3):258-260.
2. **Seth, J. K.**, Sahoo, S. and S. Mitra. 2014. First record of isopod parasite, *Nerocila phaeopleura* on the host fish *Rastrelliger kanagurta* collected from Bay of Bengal, Odisha coast, India. *International Journal of Current Research*, 6(4):6092-6093.
3. **Seth, J. K.** and Sahoo, S. 2014. First record of *Diagramma pictum* (Thunberg, 1792) from the Odisha coast, India. *Indian Journal of Geo-Marine Science*, 43(6):971-973.
4. Gokul, A and **Seth, J.K.** 2017. Preliminary studies on the faunal diversity in the fish landing centre of Sunderbans. 2017. *Records Zoological Survey of India*, 117(2): 122- 130
5. **Seth, J. K.**, Barik, T.K. and Choudhury, R.C. 2018. Karyomorphometry of two pony fishes, *Secutor insidiator* (Bloch, 1787) and *Leiognathus equulus* (Forsskal, 1775) (Leiognathidae) from the Odisha Coast, Bay of Bengal. *Indian Journal of Geo-Marine Science*, 47(02):469-474.
6. Rout, A. K., Mohapatro, D., **Seth, J.K.**, Sahoo, D.K., Karna, S.K., Guru, B.C and Panda, S. 2018. Length–weight relationship of three *Cynoglossus* species (*C. puncticeps*, *C. lingua* and *C. lida*) from Chilika lagoon, India. *Journal of Applied Ichthyology*, 34:988-989.

7. **Seth, J.K.**, Barik, T.K. and Mishra, S.S. 2019. First Record of *Gazza dentex* (Leiognathidae) from Odisha Coast, India and Assessment of its Length-weight Relationship. *Journal of Ichthyology*, 59(2): 266–270.
8. **Seth, J.K.**, Barik, T.K. and Mishra, S.S. 2019. Geometric morphometric approach to understand the body shape variation in the pony fishes (Teleostei: Leiognathidae) of Odisha Coast, India. *Iranian Journal of Ichthyology*, 59: 266– 270.
9. Barik, T.K. and **Seth, J.K.** 2019. Understanding the process of evolution and the future of biodiversity under a changing climate with special reference to infectious. *Biodiversity and Conservation*. APPLE ACADEMIC PRESS, 341-359. **(Book chapter)**
10. **Seth, J.K.**, Mohapatra, S., Mishra, P. and Behera, R. and Lingam, D.S. 2019. Native species displacement by invasive alien species yellow crazy ant: *Anoplolepis gracilipes* (Smith 1857) (Hymenoptera: Formicidae). *Indian Journal of Ecology*, 46(4): 867-870.
11. Mohanty, S.R., **Seth, J.K.** and Mohapatra, A. and Mishra, S.S. 2020. Note on occurrence of Lutke's halfbeak *Hemiramphus lutkei* Valenciennes, 1847 (Beloniformes: Hemiramphidae), along Odisha Coast. *Journal of Fisheries*, 8(2): 865-867 .
12. **Seth, J.K.**, Behera, A.K., Mohanty, S.R. and Mohapatra, A. 2020. Extension of host range for *Anilocra dimidiata*, *Nerocila sigani* and first record of *Nerocila depressa* (Isopod: Cymothoid) from Odisha coast, India. *Indian Journal of Geo-Marine Science*, 49 (08): 1498-1500
13. **Seth, J.K.**, Chakraborty, S., Roy, S. and Mohapatra, A. 2020. New host record of *Joryma malabaricus*, *Joryma hilsae* and first record of *Joryma sawayah* (Isopoda: Cymothoidae) from Odisha coast, India. *Indian Journal of Geo-Marine Science*, 49 (08): 1501-1504.
14. Mohapatra, A., Mohanty, S.R., Ray, D., Mishra, S.S. and **Seth, J.K.** 2021. A new species of the genus *Cirrhimuraena* (Anguilliformes: Ophichthidae) from Bay of Bengal, India. *Journal of Fish Biology*. DOI: 10.1111/jfb.14671.
15. Mohapatra, S.K., Mohanty, S.R., Behera, R.K., **Seth, J.K.** and Mohapatra, A. 2021. First record of *Mothocya renardi* and *Mothocya collettei* (Isopoda: Cymothoidae) from northern part of East Coast of India and new host record of *Mothocya collettei*. *Journal of Parasitic Diseases*. <https://doi.org/10.1007/s12639-021-01348-3>
16. **Seth, J.K.**, Mohapatra, S.K., Mohanty, S.R., Behera, R.K. and Mohapatra, A. 2021. Confirmation on the occurrence of *Cymothoa indica*, and first record of *Norileca indica*, with a note on new host records of *Nerocila arres*, and *Nerocila depressa* (Isopoda: Cymothoidae) from Odisha coast, India. *Journal of Parasitic Diseases*. <https://doi.org/10.1007/s12639-021-01382-1>
17. **Seth, J.K.** 2021. Invasive Alien Fish Species in the Inland Water Bodies of India. **Research Trends in Fisheries and Aquatic Sciences**. AkiNik Publications .Vol:10, page: 105-117 **(Book Chapter)**
18. **Seth, J.K.**, Mohanty, S.R., Behera, A.K., Murmu, L.K. and Mohapatra, A. 2021. First record of *Lobothorax typus* from Odisha coast, India, with molecular characterization and observation of its biphasic moulting. *Journal of Parasitic Diseases*. <https://doi.org/10.1007/s12639-021-01405-x>.
19. Mohapatra, S., Mishra, P., Behera, R. and **Seth, J.K.** 2021. Invasive Alien Species Yellow Crazy Ant-Hemipterans Mutualism and Assessment of Uniclonality. *Indian Journal of Ecology*, 48(3): 728-730.
20. **Seth, J.K.** and Barik, T.K. 2021. DNA Barcoding of the Family: Leiognathidae in the Water of Bay of Bengal, Odisha Coast, India Based on 16s rRNA and COI Gene Sequences. *Thalassas: An International Journal of Marine Sciences*. <https://doi.org/10.1007/s41208-021-00324-1>.

## Awards:

- ✓ CSIR NET, 2006
- ✓ GATE-2005, 2006