

CURRICULUM VITAE

Present Position

Mr. Sathyamoorthy S.

Ph. D. Research Scholar

Department of Zoology, School of Life Sciences

Guru Ghasidas Vishwavidyalaya (A Central University)

Bilaspur, Chhattisgarh, India, PIN – 495009.

E-Mail: jayasathyamemories@gmail.com

Mobile No: +91–9941353150 / +91–6382907746.



Career Objective

To work with a highly reputed institution that will provide me with a good platform to utilize my teaching and research skills for my career growth and avail opportunities to contribute to the student community.

Academic Profile

2019 – Till Ph. D. Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India.

2013 – 2014 M. Phil. Zoology (7.20 C.G.P.A.) University of Madras, Chennai, Tamil Nadu, India.

2012 – 2013 M. Ed. Education (7.98 C.G.P.A.) Pondicherry University, Kalapet, Puducherry, India.

2010 – 2012 M. Sc. Zoology (7.59 C.G.P.A.) University of Madras, Chennai, Tamil Nadu, India.

2009 – 2010 B. Ed. Biological Sciences (77.20 %) T. N. T. E. U., Chennai, Tamil Nadu, India.

2006 – 2009 B. Sc. Zoology (69.34 %) Thiruvalluvar University, Vellore, Tamil Nadu, India.

Subject Specialization

Areas of Teaching Interest Cell Biology, Animal Physiology, Developmental Biology, Ecology and Evolution.

Areas of Research Interest Plant-based therapeutic intervention in Chronic metabolic diseases (Obesity, Type 2 Diabetes Mellitus) using Alternatives to higher animals in Biological research (Zebrafish sp.).

Professional / Research Experiences

2019 – Till **Position:** Research Scholar (Ph. D. Zoology) **Under Supervision:** Dr. Rohit Seth, Associate Professor, Cell Biology & Neuroscience Laboratory, Department of Zoology, School of Life Sciences, Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, Chhattisgarh, India, PIN – 495009. **Thesis Title:** Effect of *Achyranthes aspera* and *Embelia ribes* on diet-induced obesity and type 2 diabetes mellitus in zebrafish (*Danio sp.*).

2018 – 2019 **Position:** Project Fellow (DST – SERB) **Principal Investigator:** Dr. Bidyadhar Das, Assistant Professor, Biochemistry & Molecular Biology Laboratory, Department of

Zoology, School of Life Sciences, North–Eastern Hill University, (A Central University) Shillong, Meghalaya, India, PIN – 793022. **Project Title:** Evaluation of mitochondrial glycerophosphate dehydrogenase (mGPDH) for its role in type 2 diabetes mellitus (T2DM). Funded by DST – SERB, Govt. of India.

2017 – 2018 **Position:** Junior Research Biologist (MoEF & CC – SACON) **Principal Investigator:** Dr. Goldin Quadros, Principal Scientist & Head, Wetland Ecology Division, Sálim Ali Centre for Ornithology and Natural History (MoEF&CC, Govt. of India), Coimbatore, Tamil Nadu, India, PIN – 641108. **Project Title:** Criteria for wetland prioritization and Framework for wetland monitoring in Tamil Nadu, India. Funded by TNSLURB, Chennai, Govt. of Tamil Nadu.

2016 – 2017 **Position:** Project Assistant (ICAR – CIBA) **Principal Investigator:** Dr. Prasanna Kumar Patil, Principal Scientist, Aquatic Animal Health and Environmental Division, Central Institute of Brackishwater Aquaculture (ICAR – CIBA) Chennai, Tamil Nadu, India, PIN – 600028. **Project Title:** All India Network Project on Fish–Health (AINP – FH). Funded by ICAR, New Delhi, Govt. of India.

2013 – 2014 **Position:** Research Scholar (M. Phil. Zoology) **Under Supervision:** Dr. M. Arumugam, Professor & Head, Crustacean Pathobiology Laboratory, Department of Zoology, School of Life Sciences, University of Madras, Guindy Campus, Chennai, Tamil Nadu, India, PIN – 600025. **Project Title:** Studies on Effect of White Spot Syndrome Virus (WSSV) Infection on Serum Protein and Hemagglutination Activity in Mud Crab *Scylla Serrata* (Forsskal 1775).

Project / Dissertation / Thesis Profile

2019 – Till **Ph. D. (Zoology) Thesis Title:** Effect of *Achyranthes aspera* and *Embelia ribes* on diet-induced obesity and type 2 diabetes mellitus in zebrafish (*Danio sp.*). **Under Supervision:** Dr. Rohit Seth, Associate Professor, Cell Biology & Neuroscience Laboratory, Department of Zoology, School of Life Sciences, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India, PIN – 495009.

2013 – 2014 **M. Phil. (Zoology) Project Title:** Studies on Effect of White Spot Syndrome Virus (WSSV) Infection on Serum Protein and Hemagglutination Activity in Mud Crab *Scylla Serrata* (Forsskal 1775). **Under Supervision:** Dr. M. Arumugam, Professor & Head, Department of Zoology, School of Life Sciences, University of Madras, Guindy Campus, Chennai, Tamil Nadu, India, PIN – 600025.

2012 – 2013 **M. Ed. (Education) Project Title:** A Study of Achievement in Biology to Selected Background Variables Among Higher Secondary School Pupils in Tiruvannamalai District, Tamil Nadu, India. **Under Supervision:** Dr. M.S Lalithamma, Professor & Dean of the School of Education, Pondicherry University (A Central University) Kalapet, Puducherry, India, PIN – 605014.

- 2010 – 2012 **M. Sc. (Zoology) Project Title:** The Activity Pattern of Gharial Crocodiles (*Gavialis gangeticus*) at Arignar Anna Zoological Park, Vandallur, Chennai, Tamil Nadu, India.
Under Supervision: Dr. S. Rajan, Associate Professor, Department of Zoology, Pachaiyappa's College, Chennai, Tamil Nadu, India, PIN – 600030.

Distinctive Recognitions / Achievements / Awards

- 2018 – 2019 Ph. D. (Zoology) Qualified **VRET and availed fellowship to pursue Ph. D.** from the Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, Chhattisgarh, India.
- 2013 – 2014 M. Phil. (Zoology) Received **Sambuvarayar Endowment Scholarship for Meritorious Students** from the University of Madras, Chennai, Tamil Nadu, India.
- 2010 – 2012 M. Sc. (Zoology) A recipient of the **University Rank Holder** from the University of Madras, Chennai, Tamil Nadu, India.
- 2006 – 2009 B. Sc. (Zoology) A **Volunteer** of the **National Service Scheme** from Arignar Anna Govt. Arts College Cheyyar, Tiruvannamalai, Tamil Nadu, India.

Key Technical / Soft Skills

1. Expression and purification of recombinant proteins, SDS–PAGE, Agarose gel electrophoresis, Spectrophotometer, Hemagglutination assay, Biochemical parameters, Histopathology, PCR techniques, GC–MS, HPLC, Fluorescence microscope, etc.
2. Well–versed M.S Offices, SPSS, OS 7/8/10, Efficient Internet, and Basic Computer Applications.

Published Papers / Articles

1. Thilagarathinam S., Saavithri V., Siva T., Arulraj S., Goldin Quadros., **Sathyamoorthy S.**, and Mahendiran Mylswamy (2021) On Bivariate Com-Poisson Thomas Distribution, Stochastic Modelling and Applications, Vol. 25, No. 1, 2021, ISSN 0792–3641, pp: 1–12.
2. Siva T., **Sathyamoorthy S.**, Mahendiran Mylswamy, Golden Quadros (2019) Observation of Baillon's Crake (*Zapornia pusilla*) in Oomayampatti lake the first record for Namakkal District, Tamil Nadu, India, Ambient Science, 2019, Vol. 06 (2) ISSN–2348 5191 (Print) & 2348 8980 (Electronic). DOI:10.21276/ambi.2019.06.2. nn02.

Published Books / Chapters / Monographs / Manuals

1. Pramila, A., **Sathyamoorthy, S.**, Sagaya Sowmya A., and Christopher, S. (2023) Laboratory Manual for Diploma in Medical Laboratory Technology. ISBN: (In Press)

Presented Papers in Conferences / Symposia / Seminars / Webinars

1. **Sathyamoorthy S*** and Rohit Seth (2023) Antidiabetic effects of *Achyranthes aspera* extract on diet-induced type 2 diabetes mellitus in a zebrafish model, at the Science Conclave Cum 4th National Biomedical Research Competition – 2023 (NBRCOM – 2023) held on 09th – 10th Dec. 2023. Organized by the Society of Young Biomedical Scientists – India (SYBS – India) at Employee's State Insurance Corporation Medical College & Hospital (Ministry of Labour & Employment, Govt. of India), Alwar, Rajasthan, India, PIN – 301030.

2. **Sathyamoorthy S*** and Rohit Seth (2023) A comparative study on the therapeutic efficacy of *Embelia ribes* seeds with the anti-obesity drug Orlistat on diet-induced obesity in a zebrafish model, at the International Conference on Alternatives to Animal Experiments and 6th Annual Meeting of the Society for Alternative to Animal Experiments – India 2023 (SAAE – I 2023, AC – 6) held on 20th – 21st Nov. 2023. Organized by the Department of Pharmacology, Jawaharlal Nehru Medical College & Hospital, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, PIN – 202002, pp. 1–65 (40).
3. **Sathyamoorthy S*** and Rohit Seth (2023) A comparative study on the therapeutic efficacy of *Achyranthes aspera* seeds with the anti-obesity drug Orlistat on diet-induced obesity in a zebrafish model, at the 3rd International Conference on Frontiers in Biological Sciences (InCoFIBS – 2023) held on 05th – 07th Oct. 2023. Organized by the Department of Life Science, National Institute of Technology, Rourkela, Odisha, India, PIN – 769008, pp. 1–176 (66).
4. **Sathyamoorthy S*** and Rohit Seth (2023) Exploring the anti-obesity potential of ethanolic extract of *Embelia ribes* seeds on diet-induced obesity in a zebrafish model (*Danio rerio*) at the National Conference on Multidisciplinary Trends and Innovations towards Health for All, held on 14th – 15th Apr. 2023. Organized by the Department of Rural Technology & Social Development, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India, PIN – 495009, pp: 1–79 (42).
5. **Sathyamoorthy S*** and Rohit Seth (2022) Evaluation of anti-obesity potential of ethanolic extract of *Achyranthes aspera* seeds on diet-induced obesity in a zebrafish model, at the International Conference on Alternatives to Animal Experiments in Translational Research & 5th Annual Meeting of the Society for Alternatives to Animal Experiments – India (SAAE–I 2022, AC–5) held on 08th – 09th Dec. 2022. Organized by the Department of Zoology, University of Kerala and, DST–Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, Kerala, India, PIN – 695034, pp. 1–66 (56).
6. **Sathyamoorthy S*** (2010) Ministry of Human Resource Development (MHRD, Govt. of India) at the College Level Seminar on Institutional Building for Teacher Education, held on 25th – 26th Feb. 2010. Organized by the Suraj College of Education, Melathangal, Tiruvannamalai District, Tamil Nadu, India, PIN – 606807.

Participated in Skill Training / Short-term / Workshops / Orientations / Refreshers

1. Participated as a delegate in the National Workshop on “Alternatives to Higher Animals in Biological Research” held on 22nd – 28th Nov. 2023, Organized by the Department of Zoology, School of Life Sciences, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, PIN – 202002.
2. Participated and Completed with Distinction a “Four Weeks International Online Certificate Course on “Medically Important Bacteria (Phase - 1)” held on 09th Oct. – 08th Nov. 2023. In Association with the Biotechnology Society of Nepal and, the Laboratory of Chemical & Biological Analysis, Western Rio Janeiro State University, Rio de Janeiro, Brazil. Organized by the Department of Microbiology, Sacred Heart College (Autonomous) Tirupattur, Tamil Nadu,

India, PIN – 226008.

3. Participated and completed a “One Week Online Training on Statistical Data Analysis Using SPSS” held on 21st – 27th Jan. 2021, Organized by the Science Tech Institute, Lucknow, Uttar Pradesh, India, PIN – 226008.
4. Participated as a delegate in a Hands-on Training Programme on “Study Tissue Regeneration Using Zebrafish and Echinoderms as Alternative Animal Models” held on 24th – 29th Nov. 2019, Organized by the Department of Zoology, School of Life Sciences, University of Kerala, Karyavattom Campus, Thiruvananthapuram, Kerala, India, PIN – 695581.

Professional Affiliations

1. Life Member Society for Alternatives to Animal Experiments India (SAAE-I), India.
2. Life Member The Indian Science Congress Association (ISCA), Kolkata, India.
3. Life Member The Zoological Society, Kolkata (ZSK), West Bengal, India.
4. Life Member Applied Zoologists Research Association (AZRA), Cuttack, Odisha, India.
6. Annual Member International Society of Zoological Sciences (ISZS), Beijing, China.

Contact Details of Academic Referees

Dr. Rohit Seth, Ph. D.

Associate Professor
Department of Zoology
School of Life Sciences
Guru Ghasidas Vishwavidyalaya (Govt. of India)
Bilaspur, Chhattisgarh, India, PIN – 495009.
E-mail Id: rohitseth123@gmail.com
Mobile No: +91–9630587045.

Dr. M. Arumugam, Ph. D.

Professor & Head (Retd.)
Department of Zoology
School of Life Sciences
University of Madras, Guindy Campus
Chennai, Tamil Nadu, India, PIN – 600025.
E-mail Id: marumugam7@hotmail.com
Mobile No: +91–9444072927.

Dr. Bidyadhar Das, Ph. D.

Associate Professor
Department of Zoology
School of Life Sciences
North-Eastern Hill University (Govt. of India)
Shillong, Meghalaya, India, PIN – 793022.
E-mail Id: dasbidyadhar@gmail.com
Mobile No: +91–9436101698.

Dr. Goldin Quadros, Ph. D.

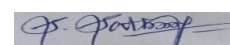
Principal Scientist & Head
Wetland Ecology Division
Sálim Ali Centre for Ornithology and Natural
History (MoEF & CC, Govt. of India) Anaikatty,
Coimbatore, Tamil Nadu, India, PIN – 641108.
E-mail Id: goldinq@gmail.com
Mobile No: +91–9869183412.

Declaration

I, **Sathyamoorthy S.** hereby declare that all the information given above is true and correct to the best of my knowledge and belief.

Date: 28/12/2023

Place: Bilaspur (C.G.)



Yours faithfully

(Sathyamoorthy S.)