

## Curriculum Vitae

### **Dr. RIYAS A.**

Assistant Professor

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### **Personal Details**

Date of birth : **25<sup>th</sup> May 1991**

Sex : **Male**

Marital status : **Married**

Permanent Address (*for correspondence*):

**Manzoor Manzil**

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Name & Designation of the Research Mentor:

**Dr. A. Biju Kumar,**

Dean of Science, Professor and Head,

Department of Aquatic Biology & Fisheries

University of Kerala, Thiruvananthapuram,

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Mob- +91- 94472 16157 Email: [bijupuzhayoram@gmail.com](mailto:bijupuzhayoram@gmail.com)

**Educational qualifications:** M. Sc., M.Phil., Ph.D.

Ph. D (Aquatic Biology & Fisheries), University of Kerala 2022

MPhil (Aquatic Biology & Fisheries), University of Kerala 2015

MSc (Aquatic Biology & Fisheries), University of Kerala 2013

### **Current Research**

Taxonomy of Neritic Jellyfishes (Cnidaria: Scyphozoa and Cubozoa) and Studies on Jellyfish

Blooms from the Kerala Coast, India.

Taxonomy, Diversity, Venom characterization and Environmental Impacts of Jellyfish Blooms along Kerala Coast. (Project)

### **Ongoing Projects**

1. Aquatic Symbiosis Genomics Project funded by The Gordon and Betty Moore Foundation (UK)

### **Teaching Experience**

Assistant Professor (Zoology), Marian College of Arts and Science, University Kerala (01-09-2022 to 31-10-2022)

Assistant Professor (Aquaculture), Govt. Arts and Science College, Lakshadweep, Pondicherry University 2022 (18-11-2022 to 31-05-2023)

Assistant Professor (Aquaculture and Fishery Microbiology), MES Ponnani College, Ponnani (Ongoing)

### **Fellowships awarded**

Kerala University Junior Research Fellowship

Junior Research fellowship, KSCSTE project (2016)

### **Technical Skills**

- a). Microscopic Imaging techniques
- b). Knowledge of Computer, Internet and Photoshop (Cs6)
- c). Molecular biology techniques.
- d). Venom Characterization from jellyfish.
- E). LC-MS/MS techniques
- F) Real time PCR techniques
- G) Molecular Phylogenetics

### **Research Papers published in National/International peer reviewed Journals**

1. **Riyas,A.**, Dahanukar, N., Krishnan, K.A., Kumar A.B., 2021. Scyphozoan jellyfish blooms and their relationship with environmental factors along the South-eastern Arabian Sea. *Marine Biology Research*, 17:2, 185-199 DOI: 10.1080/17451000.2021.1916034.
2. **Riyas, A.**, Kumar, A., Chandran, M., Jaleel, A., Biju Kumar, A. 2021. The venom proteome of three common scyphozoan jellyfishes (*Chrysaora caliparea*, *Cyanea*

- nozakii* and *Lychnorhiza malayensis*) (Cnidaria: Scyphozoa) from the coastal waters of India. *Toxicon*, 16(195): 93-103. <https://doi.org/10.1016/j.toxicon.2021.03.005>.
3. Soumya, K.R., **Riyas, A.**, Mithun, S and Biju Kumar, A. 2021. Ethological Studies on the Jellyfish, *Crambionella orsini* (Vanhöffen, 1888) (Scyphozoa: Catostylidae) in Captivity. *Journal of Aquatic Biology & Fisheries*, 9: 124-134.
  4. **Riyas, A** and Biju Kumar, A. 2020. First Record of Box Jellyfish *Tripedalia cystophora* Conant, 1897 (Cubozoa: Tripedaliidae) from India. *Thalassas*, 36(2): 297-302. <https://doi.org/10.1007/s41208-020-00242-8>.
  5. Komai, T., Ravinesh, R., **Riyas, A** and Biju Kumar, A. 2020. New records of two sponge-associated species of *Upogebia* Leach, 1814 from southern India (Decapoda: Gebiidea: Upogebiidae): *U. hexaceras* (Ortmann, 1894) and *U. nithyanandan* (Sakai, Türkay & Al Aidaroos, 2015) resurrected from the synonymy of *U. balmaorum* Ngoc-Ho, 1990. *Zootaxa*, 4747 (3): 477–494. <https://doi.org/10.11646/zootaxa.4747.3.3>.
  6. **Riyas, A.**, Bijukumar, A and Bhavik Vakani. 2019. First Record of Rhizostome jellyfish *Catostylus perezii* Ranson 1945 (Cnidaria: Scyphozoa) from the Indian Coasts. *Thalassas*, 35(2):519-524. <https://doi.org/10.1007/s41208-019-00157-z>.
  7. **Riyas, A** and Biju Kumar, A.2017.Records of record of freshwater jellyfish blooms of invasive *craspedacusta sowerbii* lankester, 1880 (hydrozoa, limnomedusae) from Kerala, India. *Journal of Aquatic Biology & Fisheries*, 5:154-159.
  8. Biju Kumar, A., Bhagyalekshmi, V and **Riyas, A.** 2017. Climate change, fisheries and coastal ecosystems in India. *Journal of Aquatic Biology & Fisheries*, 5:7-17.
  9. Galil B.S., Bijukumar, A and **Riyas, A.J.** 2013. *Marivagia stellata* Galil and Gershwin, 2010 (Scyphozoa: Rhizostomeae: Cepheidae), found off the coast of Kerala, India. *BioInvasions Records* 2, 317–318.

#### **Book Chapter**

1. Pramitha, V.S., Ragas, S.S., **Riyas, A** and Sreejith P.P. 2022. Marine Derived-Bioactive Components and their Applications. In: Pati, S., Sarkar, T., Lahiri, D (Eds.). *Bioprospecting of Natural Compounds in Food, Pharmaceutical and biomedical Science*. Nova Science Publishers, New York, pp 245.
2. **Riyas, A** and Biju Kumar, A. 2021. Jellyfish Fisheries in India: Status and Trends. In: Mariottini, G.L., Killi, N., Xiao, L (Eds.). *The Cnidaria Only a Problem or Also a Resource?*. Nova Science Publishers, New York, pp 501.

#### **Papers published in Abstract volume of National/International Symposia/Conference**

1. **Riyas, A** and Bijukumar, A. 2023. Evaluating environmental influences on *Acromitus flagellatus* Maas, 1903 jellyfish blooms in southwest Indian backwaters and estuaries. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
2. **Riyas, A** and Bijukumar, A. 2023. Co-occurrence patterns: Invertebrate associates of jellyfish *Cyanea nozakii*, *Lychnorhiza malayensis*, and *Netrostoma coerulescens* along the Indian southwest coast. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
3. Devi, S.S., **Riyas, A** and Bijukumar, A. 2023. Microplastic intrusion in pelagic jellyfish *Netrosoma coerulescens* Maas, 1903 in the eastern Arabian Sea. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
4. Bijukumar, A., Mistry, U and **Riyas, A.** 2023. Citizen Science illuminate the enigmatic realm of scyphozoans, including three new records to India. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
5. **Riyas, A** and Bijukumar, A. 2021. Is Jellyfish Fishery in India Sustainable? An Analysis of Jellyfish Fishery and Blooms in India. International Webinar on Conservation of Life Below Water: perspectives on systematic, Sustainable livelihoods and Citizens Science at Department of Aquatic Biology and Fisheries, University of Kerala during 18<sup>th</sup> to 20<sup>th</sup> March 2021.
6. **Riyas, A** and Bijukumar, A. 2021. Nematocyst Venom Proteome Analysis of Three Common Jellyfishes (*Chrysaora caliparea*, *Cyanea nozakii* and *Lychnorhiza malayensis*) (Cnidaria: Scyphozoa) from the Kerala Coast. 33<sup>rd</sup> Kerala Science Congress at Thiruvananthapuram, Kerala during 25<sup>th</sup> to 30<sup>th</sup> January 2021(Book of Abstract).
7. **Riyas, A** and Bijukumar, A. 2019. Jellyfish blooms along the southwest coast of India: current status and trends. 6<sup>th</sup> International Jellyfish bloom Symposium at Iziko South African Museum, Cape Town, South Africa during 4<sup>th</sup> to 6<sup>th</sup> November 2019 (Book of Abstract).

8. **Riyas, A** and Bijukumar, A. 2019. Venom proteome of three blooming jellyfishes *Chrysaora caliparea*, *Cyanea nozakii* and *Lychnorhiza malayensis* (Cnidaria: Scyphozoa) from the coastal waters of India. 6<sup>th</sup> International Jellyfish bloom Symposium at Iziko South African Museum, Cape Town, South Africa during 4<sup>th</sup> to 6<sup>th</sup> November 2019 (Book of Abstract).
9. Bijukumar, A and **Riyas,A.** 2019. Jellyfish blooms in India: ecosystem implications and socio-economic concerns. 6<sup>th</sup> International Jellyfish bloom Symposium at Iziko South African Museum, Cape Town, South Africa during 4<sup>th</sup> to 6<sup>th</sup> November 2019 (Book of Abstract).
10. **Riyas, A** and Biju Kumar, A. 2017. Jellyfish blooms in Indian coast: a status report. National Workshop on Coral Reef Ecosystem of West Coast of India: Current Status and Way Forward organized by ZSI at Jamnagar, Gujarat during 12 to 14 July, 2017(Book of Abstract)
11. **Riyas, A** and Biju Kumar, A. 2015. Jellyfish blooms along Kerala coast India. National Multi- Disciplinary Annul Research conference organized by University of Kerala at Thiruvananthapuram, Kerala during 15 to 18 December, 2015(Book of Abstract).

#### **Paper presented in National / International symposia/seminars**

1. **Riyas, A** and Bijukumar, A. 2023. Evaluating environmental influences on *Acromitus flagellatus* Maas, 1903 jellyfish blooms in southwest Indian backwaters and estuaries. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
2. **Riyas, A** and Bijukumar, A. 2023. Co-occurrence patterns: Invertebrate associates of jellyfish *Cyanea nozakii*, *Lychnorhiza malayensis*, and *Netrostoma coerulescens* along the Indian southwest coast. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
3. Devi, S.S., **Riyas, A** and Bijukumar, A. 2023. Microplastic intrusion in pelagic jellyfish *Netrosoma coerulescens* Maas, 1903 in the eastern Arabian Sea. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).

4. Bijukumar, A., Mistry, U and **Riyas, A.** 2023. Citizen Science illuminate the enigmatic realm of scyphozoans, including three new records to India. 7<sup>th</sup> International Jellyfish bloom Symposium at Thiruvananthapuram, during 21<sup>st</sup> to 25<sup>th</sup> November 2023 (Book of Abstract).
5. A paper entitled “Nematocyst Venom Proteome Analysis of Three Common Jellyfishes (*Chrysaora caliparea*, *Cyanea nozakii* and *Lychnorhiza malayensis*) (Cnidaria: Scyphozoa) from the Kerala Coast” **In:** 33<sup>rd</sup> Kerala Science Congress at Thiruvananthapuram, Kerala during 25<sup>th</sup> to 30th January 2021.
6. A paper entitled “Jellyfish blooms along the southwest coast of India: current status and trends” **In:** 6<sup>th</sup> International Jellyfish bloom Symposium, at Iziko South African Museum, Cape Town, South Africa during 4<sup>th</sup> to 6<sup>th</sup> November 2019.
7. A paper entitled” Venom proteome of three blooming jellyfishes *Chrysaora caliparea*, *Cyanea nozakii* and *Lychnorhiza malayensis* (Cnidaria: Scyphozoa) from the coastal waters of India. **In:** 6<sup>th</sup> International Jellyfish bloom Symposium at Iziko South African Museum, Cape Town, South Africa during 4<sup>th</sup> to 6<sup>th</sup> November 2019.
8. A paper entitled “Jellyfish blooms in Indian coast: a status report. National Workshop on Coral Reef Ecosystem of West Coast of India: Current Status and Way Forward” **In:** national seminar organized by ZSI at Jamnagar, Gujarat during 12 to 14 July, 2017.
9. A paper entitled “Jellyfish blooms along Kerala coast India”. **In:** National Multi- Disciplinary Annual Research conference organized by University of Kerala at Thiruvananthapuram, Kerala during 15 to 18 December, 2015.

### **Participation of Workshops**

1. Workshop on Ichthyotaxonomy organized by Department Biology and Fisheries University of Kerala and Kerala University of Fisheries and Ocean Studies at Thiruvananthapuram during 23 to 27 March, 2021.
2. Workshop on Molecular Phylogenetics organized by Centre for Ecological Sciences, Indian Institute of Science, Bangalore during 1<sup>st</sup> to 5<sup>th</sup> October 2019.

3. Workshop on Popular Science Writing Organized by the Internal Quality Assurance Cell(IQAC), University of Kerala, Thiruvananthapuram during 11<sup>th</sup> and 12<sup>th</sup> March 2019.
4. Workshop on Biogeochemistry of Coastal Lakes organized by the Department of Environmental Science, University of Kerala, Thiruvananthapuram during 11<sup>th</sup> and 12<sup>th</sup> January 2018.
5. Principles and Applications of Wide- field and Confocal Microscopy/ Image analysis and Live cell imaging organized by the Global Initiative of Academic Network at University of Kerala, Thiruvananthapuram during 27 February to 4 March, 2017.
6. Capacity Building Workshop on Animal Taxonomy Organized by the Department Biology and Fisheries at Thiruvananthapuram during 25 to 26 March, 2017.
7. Workshop on Marine Biodiversity: Survey, Monitoring and DNA barcoding Methods Organized by Department of Aquatic Biology in collaboration with Florida Museum of natural History, University of Florida held at Thiruvananthapuram during 29 November, 2016.

### **Internships and Trainings**

1. One month internship training programme on the instrument **Liquid Chromatography and Mass Spectrometry (LCMS/MS)** from the Sophisticated Instrumentation and Computation Centre, University of Kerala.
2. DBT sponsored **Short term training course in Real Time PCR Technologies** during 15<sup>th</sup> to 31<sup>st</sup> July 2019 at SCMS Institute of Bioscience and Biotechnology research and Development (SIBBR&D), Cochin.

### **Awards**

1. Best Paper and presentation award in International Webinar on Conservation of Life Below Water: perspectives on systematic, Sustainable livelihoods and Citizens Science organised by the Department of Aquatic Biology and Fisheries, University of Kerala, 18<sup>th</sup> to 20<sup>th</sup> March 2021 in a paper entitled “Is Jellyfish Fishery in India Sustainable? An Analysis of Jellyfish Fishery and Blooms in India. International Webinar on Conservation of Life Below Water: perspectives on systematic, Sustainable livelihoods and Citizens Science”.
2. Best poster award in 33<sup>rd</sup> Kerala Science Congress at Thiruvananthapuram, Kerala during 25<sup>th</sup> to 30<sup>th</sup> January 2021 in a paper entitled ““Nematocyst Venom Proteome Analysis of Three Common Jellyfishes (*Chrysaora caliparea*, *Cyanea nozakii* and *Lychnorhiza malayensis*) (Cnidaria: Scyphozoa) from the Kerala Coast”

3. Third Prize at University level in the Three Minute Thesis Competition (Three Minute Presentation of the PhD work) organised by University of Kerala as part of the Science Week Celebrations, 29<sup>th</sup> March 2020.

**Declaration**

I do hereby declare that the statements made in curriculum vitae are true to my knowledge and belief.



Riyas A.

Place: Thiruvananthapuram

Date: 23/06/2024