FACULTY PROFILE

Dr. Rameez Roshan P.M.

Assistant Professor (**KUFOS**, **Kochi**)

Ph.D. (**ICAR-CIFE, Mumbai**)

Fish Genetics and Breeding

Contact details

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Dr. Rameez Roshan P.M., serves as an Assistant Professor in the Department of Aquaculture within the Faculty of Fisheries Science at the Kerala University of Fisheries and Ocean Studies (KUFOS), situated in Panangad, Kochi. He holds a Ph.D. in Fish Genetics and Breeding with a core specialization in Quantitative and Statistical Genetics from ICAR-CIFE, Mumbai, along with an MFSc in Fish Genetics and Breeding from ICAR-CIFE, Mumbai, and a BFSc in Fisheries Science from KUFOS, Kochi. Following Ph.D., he gained valuable experience by contributing to multiple research projects.

Dr. Rameez's research interests encompass the studies involving genetic architecture of complex traits, genetic improvement of economically important traits in aquaculture through the application of quantitative genetics theory, application of population genomics for the conservation and management of fish genetic resources, computational & statistical genetics, and bioinformatics.

He is particularly adept in applying data science to solve problems in genetics and breeding, applying complex statistical methodologies to quantitative genetic data to acquire novel insights. Recognized for his proven analytical thinking abilities to figure out complex statistical genetics challenges, he pair communication skills with the agility of thought to execute forward-focused animal breeding strategies. Dr. Rameez's dedication to continuous learning is reflected in his active participation in various training programs, workshops, and discussion forums. Beyond his teaching and research contributions, he has also played a key role in organizing training programs and conferences, further demonstrating his commitment to the academic community.

Teaching:

Post-graduate:

- ❖ Principles of Genetics and Breeding
- ❖ Population and Quantitative Genetics
- ❖ Principles of Selection and Selection Methods
- ❖ Fish Breeding Plans
- ❖ Conservation of Fish Genetic Resources
- ❖ Bioinformatics and Computer Applications in Fish Genetics
- ❖ Computer Fundamentals and Programming

Under-graduate:

- ❖ Genetics and Breeding

Research Areas:

- Genetic Architecture of Complex Traits
- Genetic Improvement of Economically Important Traits
- Computational and Statistical Genetics
- Population Genomics
- Conservation of Aquatic Genetic Resources
- Bioinformatics
- Simulation-Based Studies

Key Management Roles:

- Nodal officer, Virtual Biodiversity Cadre, Kerala State Biodiversity Board
- Nodal officer, AR-VR facility
- Coordinator, Professional Fisheries Graduates Forum

Publications:

- Research Gate:

Awards & Achievements:

- Editor's choice Collection for Heredity prize for the Best Student Paper 2022 in Nature Heredity Journal
- Research Associateship in World-Bank funded National Agricultural Higher Education Project
- Junior Research Fellowship

Ongoing Projects:

- PI of **Genetic monitoring of selected fish hatcheries across Kerala** – Plan project funded by KUFOS
- Co-PI of **Standardization of Seed Production Techniques of indigenous Ornamental fishes of India**- Plan project funded by KUFOS

- Co-PI of **Population Demography and Risk Assessment of Invasive South American Armoured Catfish *Pterygoplichthys sp*. In the Indian Fresh Water Systems: A way forwarded for sustainable Native Fish Diversity** – funded by MoEF, Govt. of India

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