

## Jayasundara Mudiyanseleage Sajani Nisansala Rathnapala

139/2. "Nuwan", Aswedduma, Menikdiwela, Kandy, Sri Lanka

Contact No - +94702699002

nrsajani@gmail.com



### PERSONAL DATA

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Name in Full : Jayasundara Mudiyanseleage Sajani Nisansala Rathnapala  
Date of Birth : 15<sup>th</sup> January, 1986  
Gender : Female  
Nationality : Sri Lankan  
Marital status : Married

### EDUCATION

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#### Post Graduate Education

**Reading for PhD** attached to the Laboratory of Genome Science, Tokyo University of Marine Sciences & Technology, Japan

**Masters in Aquaculture** (specialized in Aquatic Health Management) attached to the Ghent University, Belgium in 2016 with a Greater Distinction: Magna Cum Laude (GPA: 803/1000)

**Research: Development of an Early Mortality Syndrome (EMS) challenge test for shrimps** under the supervision of Prof. Dr. Ir. Peter Bossier, Laboratory of Aquaculture & Artemia Reference Center, Department of Animal Science and Aquatic Ecology, Faculty of Bioscience Engineering, Ghent University, Belgium.

#### Graduate Level Education

**B.Sc. in Fisheries and Marine Sciences** (Specialized in Aquaculture)

- Department of Fisheries and Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka (2006-2011)
- GPA: 3.83 / 4.00 (First Class Honors) (Best results of the Department) Total credits- 120
- Degree completion date: 30<sup>th</sup> July 2011

**Secondary  
Education/ School**

**Ferguson High School, Rathnapura, Sri Lanka**

G.C.E. Advanced Level in 2005 (Biology, Chemistry and Physics)

**St. Agnes Girls Collage, Balangoda, Sri Lanka**

G.C.E. Ordinary Level in 2001

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**SCHOLARSHIPS & AWARDS**

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- **Monbukagakusho - Japanese Government Scholarship, Japan 2019**

This was awarded to undergo post graduate studies (Doctoral) attached to Laboratory of Genome Science, Tokyo University of Marine Sciences & Technology, Japan since 2019 (For 03 years)

- **VLIR-UOS Training and Masters Scholarships in Belgium:** Belgian Flemish University, Belgium, 2014

“VLIR – UOS” Scholarship was awarded to undergo post graduate studies (Masters) in Faculty of Bioscience Engineering, Ghent University, Belgium since, September 2014 to September 2016 (two years).

- **Award of the best presenter of the 09th Academic sessions (2012) of University of Ruhuna (Biological Science).**

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**EMPLOYMENT HISTORY**

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- Current position: Lecturer, Dept. of Fisheries & Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka, since 15th February,2013.
- Worked as a Lecturer (Temporary), Dept. of Fisheries & Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka (from 01.09.2011-14.02.2013)
- Worked as a Demonstrator (Temporary), Dept. of Fisheries & Aquaculture, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka (from 01.08.2011 to 01.09.2011)

## RESEARCH ACHIEVEMENTS

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### Research Grants

- **Ruhuna University Research Grant -2018 (Research Grant No: RU/FMST/RP/2018/04)**, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka

### Publications

#### Unpublished Manuscript

- Development of an Early Mortality Syndrome (EMS) challenge test for shrimps (Master's thesis:2016)
- Effect of the pumpkin meal (*Cucurbita* sp.) and marigold petal meal (*Tagetes erecta*) on the color enhancement and the growth performance of Buenos Aires (B A) tetra (*Hyphessobrycon anisitsi/ Hemmigrammus caudovittatus*) (Bachelors thesis:2011)

#### Conference Proceedings

- Gayashan, W.S., **Rathnapala, J.M.S.N.**, Herath S.S. 2019., Effects of Chronic Exposure of Cadmium on Growth, Bio-accumulation and Hematological Parameters of Genetically Improved Farmed Tilapia (GIFT), 25<sup>th</sup> Scientific Sessions of the Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR) 2019, Sri Lanka
- **Rathnapala, J.M.S.N.**, Bossier, P., De Schryver, P. 2018, Development of an Early Mortality challenge test for shrimps using gnotobiotic Artemia, Abstracts of 15th Academic Session of University of Ruhuna, Sri Lanka
- Samarawardene, H.R.T.T., **Rathnapala, J.M.S.N.**, Gamage, K.R. 2018. Effect of dietary probiotic (AQUALACT TM) on growth performance, feed utilization and stress resistance of guppy (*Poecilia reticulata*), International Research Symposium on Pure and Applied Sciences - IRSPAS 2018, University of Kelaniya, Sri Lanka
- Lokuhitige, S., **Rathnapala, J.M.S.N.**, Gamage, K.R. 2018. Effect of feeding of herbal enriched artemia on the growth performance and stress resistance of guppy fry (*Poecilia reticulata*), International Research Symposium on Pure and Applied Sciences - IRSPAS 2018, University of Kelaniya, Sri Lanka
- **Rathnapala, J.M.S.N.**, Gamage, K. R. G. and Dissanayake, A. S., 2012. Color enhancement and the growth performance of Buenos Aires tetra (*Hemmigrammus caudovittatus*) fed with marigold petal meal (*Tagetes erecta*) and a commercial color feed. Abstracts of 9th academic session. University of Ruhuna. Matara. Sri Lanka. . p. 28
- **Rathnapala, J.M.S.N.**, Gamage, K. R. G. and Dissanayake, A. S, 2014. Effect of the pumpkin meal (*Cucurbita* sp.) on the color enhancement and the growth performance of Buenos Aires (B A) tetra (*Hyphessobrycon anisitsi/ Hemmigrammus*

caudovittatus). International conference of Agricultural sciences 2014. Sabaragamuwa University, Sri Lanka. p. 35

### **Student Research – Supervision**

- During my academic/research career, I have co-supervised six undergraduate research students. All of these were completed and successfully defended with publications.

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### **INTERESTED RESEARCH AREAS**

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- Specifically with respect to **Aquatic Health Management**. I am particularly interested in **genomic characterization of microorganisms, immunology, bacterial pathogens, host-microbe interactions, bacterial signaling and detection systems and anti-virulence therapy, quorum sensing, virulence factors and regulation, microbial community management etc.**
- **Novel techniques in genomic sciences, Next generation sequencing, Bio Informatics**
- **Disease control** in aquaculture using **biofloc, probiotics and prebiotics,**

### **TRAININGS & WORKSHOPS**

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Training on aquatic farm management (aquaculture farms in Spain & Portugal) as a part of compulsory requirement of Master Degree

Industrial training at Sri Lanka Ports Authority (Hydrography Division & Human Resource Division) as a part of a compulsory requirement of Bachelor's degree

Certificate course on Quality Management in Sri Lanka Standard Institution (SLSI)

Certificate Course in Staff Development (CCSD) - Ruhuna University of Sri Lanka (2012/2013)

Workshop on career guidance and career counselling (2013)

Training Workshop on Skills for Science Communication to the Public (2014)

## **SKILL PROFILE**

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### **Language Ability:**

- Obtained overall 7.0 marks for IELTS with the candidate number of 18LK001319JAY011A.
- Successfully completed Certificate course in English conducted by University of Colombo with a distinction pass.
- Achieved a Distinction pass on Diploma in English, Sabaragamuwa University, Sri Lanka
- Achieved a Distinction pass on Certificate Course in English, Sabaragamuwa University, Sri Lanka

### **Literacy in Academic Computing:**

- Successfully completed the Certificate Course of Computer Literacy (CLC) concurrent to the Bachelor's Degree, Department of Computer Science, University of Ruhuna, Sri Lanka
- GIS applications - Ilwis Academic 3.3
- Statistical packages – R, SPSS Package 16.0

## **MEMBERSHIPS IN SOCIETIES**

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- **Alumna** of the Laboratory of Aquaculture & Artemia Reference Center, , Ghent University, Belgium
- **YSF** (Young Scientists Forum, Sri Lanka) – Life member

## **EXTRA-CURRICULAR ACTIVITIES**

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- Active member of the chess club during school time
- Active member while holding positions of the Science Society, Literature Committee during school time

## **PERSONAL INTERESTS**

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Hiking and nature exploration, Listening to music, Reading