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OBJECTIVE

To pursue a challenging academic and research carrier in Fish Biology, Ecology and Environmental Science through hard work, research, skills and perseverance and to serve my family, my Institution and my country with the best of my abilities.

EDUCATIONAL BACKGROUND

MPhil in Animal Science

Institution: Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka

Course Work: GPA= 3.68 out of 4.0

Research Project: 2 year full time

Title: Effect of hydro-climatic factors on fisheries and local fish species harvested in the
Vavuniya reservoir, Sri Lanka

Research Area: Fisheries, Environmental Science

Effective date – 20th April 2016

B.Sc. Honours in Zoology- 2nd Class Upper Division

Institution: University of Jaffna, Jaffna, Sri Lanka

Area: Specialization in Zoology

Title: Viable propagation of *Betta splendens* (Siamese fighting fish) in the aquaria.

Effective date – 11th June 2008

PROFESSIONAL EXPERIENCE

- 17th May 2010 - to date - **Lecturer**
Department of Bio-Science, Faculty of Applied Science, Vavuniya
Campus of the University of Jaffna, Sri Lanka
- 17th Aug 2009 - 14th May 2010 - **Demonstrator**
Department of Zoology, Faculty of Natural Science, Open University
of Sri Lanka, Sri Lanka
- 4th Aug 2008 - 8th Aug 2009 - **Demonstrator**
Department of Zoology, Faculty of Science, University of Jaffna

TECHNICAL AND TEACHING SKILLS

- **Laboratory Techniques in Fisheries and Water Quality:** Principles and use of laboratory equipment; Analysis of water for physical, chemical and biological parameters; Techniques in analysis of fish and feed samples; Aquatic microbiology; sampling and tagging; Quantitative and qualitative analysis of plankton.
- **Fisheries Biology:** Fish Systemics, Meristics and Morphometrics; Biological indices of fish, Proximate composition of fish; Anatomy and Physiology of fish; Fish biotechnology; Behaviour and Population dynamics of fish; Genetics and breeding of fish.
- **Aquaculture:** Fish seed production and larval rearing; Fish feed preparation techniques; Mariculture; Ornamental fish culture; Aquatic bio resource management; Aquaculture based farming system; Mitigatory measures of aquatic pollution.
- **Environmental Science:** Marine Environment and Management; Marine Biology; Limnology and Wetland Management; Hydro-climatic factors; Environmental pollution; Environmental Impact Assessment; Eco-system functions; Wildlife survey methods; Wildlife biology and management.

GRANTS

2011 - Impact of oil and grease pollution of Vavuniya tank on fish embryo development. (Grant no: UJ/VC/RG/2011/02).

2010 - Possibilities of making the ornamental fisheries as a supplementary source of income for the fishing community relying on the Vavuniya tank, Sri Lanka. (Grant no: UJ/VC/RG/2010/05).

PUBLICATIONS

1. Species composition and abundance of fishes with seasonal fluctuations of rainfall and water level in Vavuniya reservoir, Sri Lanka (**Accepted in *Int. Res. J. Environment Sci.***).
2. Umasuthan, S., Patrick, A. E. S., Naveendrakumar G. and Kuganathan, S. (2017). Developmental abnormalities of *Betta splendens* (Siamese fighting fish) embryos reared in oil and grease contaminated water samples of Vavuniya reservoir, Sri Lanka', *Int. Res. J. Biological Sci.*, Vol. 6(4), pp. 27-31.
3. Patrick, A. E. S and Kuganathan, S. (2016). Seasonal hydro-climatic consequences on fish harvests in Vavuniya reservoir, Sri Lanka', *Int. Res. J. Environment Sci.*, Vol. 5(9), pp. 55-62.
4. Patrick, A. E. S. (2016). Influence of rainfall and water level on inland fisheries production: Review. *Archives of Applied Science Research*. 8 (6):pp.44-51.
5. Patrick, A. E. S., Kuganathan, S., & Edirisinghe, U. (2015). Effects of hydro-climatic fluctuations on catchability of fish in Vavuniya reservoir, Sri Lanka. *Tropical Agricultural Research*, 26 (2): pp. 402 – 408.
6. Patrick, A.E.S., Kuganathan, S. and Edirisinghe, U. (2015). Negative allometric growth of *Oreochromis niloticus* from polluted and non-polluted locations of the Vavuniya reservoir, Sri Lanka, Sri Lanka: Proceedings of the 21st Annual Session, Sri Lanka Association for Fisheries and Aquatic Resources. p. 37.
7. Patrick, A.E.S., Kuganathan, S. and Edirisinghe, U. (2014). Linear morphometric phenomenon of *Oreochromis niloticus* in polluted location of Vavuniya reservoir, Sri Lanka, Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya, Sri Lanka. p. 84.
8. Patrick, A.E.S., Kuganathan, S. and Edirisinghe, U. (2014). Effect of rainfall pattern on fish production in a medium perennial, Vavuniya reservoir, Sri Lanka: Proceedings of the 20th Annual Session, Sri Lanka Association for Fisheries and Aquatic Resources. p. 18.

9. Patrick, A.E.S., Kadotgasan, J.M. and Naveendrakumar, G. (2012). Study to detect impacts of pollution on the distribution of zooplankton in the northern tropical ponds in Sri Lanka. Archives of Applied Science Research 4(6): 2552-2556.
10. Patrick, A. E. S., Kadotgasan, J. M., and Naveendrakumar, G. (2011). Preliminary study of major zooplankton's abundance in polluted and non polluted locations of Vavuniya tank and Ariyakulam Pond. Vavuniya Campus Annual Research Session (VCARS) 2011 Proceedings, p.15.
11. Patrick, A. E. S., Arjunan, K., and Naveendrakumar, G. (2011). Sex ratio, Gonadosomatic index and Fecundity of Tilapia sp. in the Vavuniya town tank. Vavuniya Campus Annual Research Session (VCARS) 2011 Proceedings, p. 14.
12. Patrick, A. E. S., Naveendrakumar, G., and Arjunan, K. (2011). Some aspect of linear morphometrics and sex ratio of Tilapia sp. in polluted and non-polluted location of Vavuniya tank. Vavuniya Campus Annual Research Session (VCARS) 2011 Proceedings, p. 13.
13. Patrick, A. E. S., Sukanyah, S., and Manjeevan, A. (2011). Preliminary study of Schooling behavior of *Poecilia reticulata* in the Vavuniya town tank water samples subjected to oil and grease pollution. Vavuniya Campus Annual Research Session (VCARS) 2011 Proceedings, p. 12.
14. Patrick, A. E. S., Sukanyah, S., and Naveendrakumar, G. (2011). Preliminary study of learning behavior of *Poecilia reticulata* in the Vavuniya town tank water samples subjected to oil and grease pollution. Vavuniya Campus Annual Research Session (VCARS) 2011 Proceedings, p. 11.
15. Patrick, A.E.S. (2009). Biological Study of *Betta splendens* (Regan, 1910) in Semi Natural Aquaria in Jaffna District. Jaffna Science Association (JSA) on 16th Annual Session. p. 05.
16. Patrick, A.E.S. (2009). Viable growth performance of *Betta splendens* (Regan, 1910) Larvae with different aquaria environment and diets in Jaffna District. Sri Lankan Association for the Advancement of Science (SLAAS) on 65th Annual Session. p. 82.
17. Patrick, A.E.S. (2009). Ornamental fish *Betta splendens* (Regan, 1910) Larval Growth Rate Study using Experimental Diets. Jaffna Science Association (JSA) on 16th Annual Session, p. 06.

RELEVANT SKILLS

Language Skills: Fluent in English, Sinhala & Tamil. Followed all the undergraduate and postgraduate lectures in English medium and also have the experience of teaching in English medium.

Sat for IELTS exam on 29th October 2016

IELTS Band Score: Overall band 7.0 (Reading 6.5, Speaking 7.0, Listening 7.5 and Writing 6.0)

Computer Skills: Proficient in use of Microsoft Office Application, Capable with use of program in C++, Java, Arc GIS software, Minitab 16.0 and Latex.

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED

- Workshop (National): Preparation in the “*Introduction to GIS using Arc GIS*”: organized by Water Society and Climate change (WaSo): Department of Civil Engineering, Faculty of Engineering, University of Jaffna and GIS Solutions Private Limited, Colombo, Sri Lanka on 20th -21st March, 2017.
- Workshop (National): Preparation in the “*Invasive Alien Species Research Agenda*”: organized by Royal Botanical Garden, Peradeniya, Sri Lanka 2016.
- Workshop (National): Preparation in the “*Sri Lanka Qualifications Framework for Science based Faculties*” (SLQF), organized by the Standing Committee on Science of the University Grant Commission, Sri Lanka on 24th June, 2016.
- Workshop (International): Preparation in the “*Length Based Spawning Potential A new approach to assess and manage data poor fisheries*”, organized by the National Aquatic Resources, Research and Development Agency (NARA) & Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR) in association with Seafood Exporters’ Association of Sri Lanka (SEASL) & Centre for Fish, Fisheries Research, Murdoch University, Perth, Western Australia on 11th August, 2015.
- Participated and presented an oral presentation in the 21st Annual Session, Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR) on 22nd May, 2015.
- Participated and presented a poster presentation in 1st Annual Research Congress, Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka on 10th -11th October, 2014.

- Participated and presented a poster presentation in 26th Annual Research Congress, Postgraduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka on 20th - 21st November, 2014.
- Participated and presented an oral presentation in the 20th Annual Session, Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR) on 22nd May, 2014.
- Workshop: Preparation in the “*Fourth National Workshop on Scientific Writing*” organized by Postgraduate Institute of Science (PGIS) in collaboration with the National Science Foundation (NSF) on 6th – 7th March 2014.
- Participated in 25th Annual Research Congress, Postgraduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka on 20th - 22nd November, 2013.
- Participated and presented two oral presentations in the Vavuniya Campus Annual Research Session (VCARS) on 16th November, 2011.
- Workshop: Preparation in “*Gene Manipulation in Mosquitoes: Current Trends and Technologies*” on 24th-25th June 2011 organized by Department of Zoology, University of Jaffna, Sri Lanka and University of Maryland, United States of America.
- Workshop: Preparation in “*Introduction to sampling and basic principles of sample selection with special reference to S&T research*” on 22nd June 2011 organized by Section D (Life and Earth Science) of the Sri Lankan Association for the Advancement of Science (SLAAS).
- Participated and presented an oral presentation in the 10th Annual Session, Sri Lankan Association for the Advancement of Science (SLAAS) on 7th -11th December, 2009.
- Participated and presented two oral presentations in the 16th Annual Session, Jaffna Science Association (JSA) on 10th -12th June, 2009.

MEMBERSHIPS IN ASSOCIATIONS

- JSA (Jaffna Science Association)
- SLAAS (Sri Lanka Association for the Advancement of Science)
- SLAFAR (Sri Lanka Association for the Fisheries and Aquatic Resources)

CONTRIBUTION TO THE VAVUNIYA CAMPUS OF THE UNIVERSITY OF JAFFNA

- **Chairman of Vavuniya Campus Career fair 2017**
- **Member of the International Symposium of Vavuniya Campus (VCIRS) 2017**
- **Student Counselor** - Faculty of Applied Science: 2011-2012
- **Member of the committee-** Vavuniya Campus Annual Research committee 2011
- **Curriculum Development** – 2010, 2011 and 2017
- **Design a logo** - Environmental Society (ENSOC) -2011

EXTRACARRICULAR ACTIVITIES

- 1st place in Biology Exhibition conducted by Jaffna Science Association (JSA) of the University of Jaffna for inter-school exhibition competition in 1998 (functional human blood circulation model).
- Created models for vertebrate evolution (fish to human) for the Science faculty exhibition, University of Jaffna (2004).
- Created Dinosaur model with movable head, Department of Zoology, University of Jaffna (2004).
- Created Fish ancestor models, Department of Zoology, Faculty of Natural Science, Open University of Sri Lanka (2010).

Referees –

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Sri Lanka

I hereby certify that the information above is true and accurate.

Sincerely,



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A.E.S.Patrick