

Dr. Asanka D. Jayasinghe

PhD (UCAS, China), Mphil (Kelaniya, SL), BScHons (Kelaniya, SL)



Contact Information

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Academic Qualifications

PhD In Hydrobiology (Stable Isotopic Ecology) from University of Chinese Academy of Science, China (2014)
MPhil In Zoology (Limnology & Fisheries Biology) from University of Kelaniya, Sri Lanka (2005)
BScHons In Zoology from University of Kelaniya, Sri Lanka (2001)

Research Interests

Stable Isotopic Ecology
Aquatic Ecology
Fish Population Dynamics
Culture-based Fisheries
Acoustic Ecology

Academic Awards & Scholarships

2013 – USB scholarship for PhD study from University of South Bohemia, Czech Republic.
2011 – UCAS scholarship for PhD study from University of Chinese Academy of Science, China.
2010 – Presidential Award for internationally recognized research publication.
2007 – TWAS/ NSF Award for the Best Young Scientist (Bio/Medical sciences) in Sri Lanka.
2006 – 3rd best paper at 13th biennial conference of International Institute of Fisheries Economics and Trade (IIFET 2006), Portsmouth, UK.
2005 – NACA Scholarship for International Training Workshop on Application of Molecular Genetics, Kasetsart University, Thailand.
2005 – Jinan University scholarship for International Training Workshop on Hydrobiology, Jinan University, China.
2004 – Deakin University visiting scholarship for data analysis and manuscript preparation, Deakin University, Australia.

Work Experience

2008 to date - Lecturer, Department of Limnology, University of Ruhuna, Sri Lanka
2013 – Research Assistant, Institute of Hydrobiology, Czech Academy of Sciences, Czech Republic
2011 – Research Assistant, Institute of Hydrobiology, Chinese Academy of Sciences, China
2007 - International Consultant, Food and Agriculture Organization of the United Nations (FAO), Iraq (relocated to Jordan)
2001 - Research Assistant, Department of Zoology, University of Kelaniya, Sri Lanka
2001 - Demonstrator, Department of Zoology, University of Kelaniya, Sri Lanka

Professional Memberships

2016 – Executive Committee Member, Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR)

2010 – Vice President, Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR)
 2009 – Executive Committee Member, Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR)
 2006 – Life member of Geo-Informatics Society of Sri Lanka (GISSL).
 2004 – Full member of Asian Fisheries Society (AFS).
 2003 – Life member of Sri Lanka Association for Fisheries and Aquatic Resources (SLAFAR).

Other professional Roles

2016 – Reviewer/ Lakes & Reservoirs: Research and Management (Online ISSN: 1440-1770)
 2015 – Coordinator/ FMST for 13th Academic Sessions and 12th Vice-Chancellor's Award Ceremony of University of Ruhuna
 2015 – Coordinator/ FMST for Organizational data collection for Science & Technology Management System (STMIS) of National Science Foundation (NSF), Sri Lanka
 2015 – Editor/ Journal of the University of Ruhuna
 2015 – Representative/ FMST for the Internal Quality Assurance Unit (IQAU) of University of Ruhuna
 2015 – Chair/ Internal Quality Assurance Cell (IQAC) of Faculty of Fisheries and Marine Sciences & Technology
 2014 – Representative/ FMST for the Senate of University of Ruhuna
 2014 – Deputy Proctor/ Faculty of Fisheries and Marine Sciences & Technology (FMST), University of Ruhuna
 2010 – Resource Person, workshop on marine biological resources for Sri Lanka Navy.
 2006 – Resource Person, workshop organized for curriculum development of Bachelor of Education Degree, National Institute of Education (NIE).
 2003 – Resource Person, workshop on “Aquaculture in seasonal reservoirs of Sri Lanka” for rural farmer communities and other stake holders in village agriculture.

Publications

Books

Jayasinghe U. A. D. (2009) ආසියාවේ වගා පාදක ධීවර කර්මාන්තය: සංවර්ධනය උදෙසා සුභාවික ප්‍රවේශයන්. Sinhala translation of *Better-practice approaches for culture-based fisheries development in Asia*. (eds: De Silva S. S., Amarasinghe U. S., & Nguyen T. T. T., 2006) ACIAR Monograph No. 120d, 115 p
 De Silva S. S., Amarasinghe U. S., **Jayasinghe U. A. D.**, Wijenayake W.M.H.K., Nguyen T. T., Sim S. Y., Nguyen S. H. & Murray F. (2006): *Better-practice approaches for culture-based fisheries development in Asia*. (eds: De Silva S. S., Amarasinghe U. S., & Nguyen T. T. T.) ACIAR Monograph No. 120, Australian Centre for International Agricultural Research, Canberra; 96 p.

Full papers

Baran R; Jůza T; Tušer M; Balk H; Blabolil P; Čech M; Draštík V; Frouzová J; **Jayasinghe U.A.D.** at al. (2017) A novel upward-looking hydroacoustic method for improving pelagic fish surveys. *Scientific Reports* (in press).
 Manawadu M.M., Asanthi H.B., **Jayasinghe U.A.D.** and Rajapaksha S.W. (2016) Investigation on Sediment Transport and River Discharge at Downstream of Walawe river. In: *Water Resources Research in Sri Lanka: Symposium Proceedings of The Water Professionals' Day* (Ed: Dayawansa NDK and De Silva RP). October 2016; 3-13.
Jayasinghe UAD, García-Berthou E, Li Z, Li W, Zhang T and Liu J (2015) Co-occurring bighead and silver carps show similar food preference but different isotopic niche overlap in different lakes. *Environmental Biology of Fishes* 98: 1185 – 1199.
 Sanjaya H.L.K, Asanthi H. B. & **Jayasinghe U. A. D.** (2014): Macrobenthos diversity in a Headwater Stream affected by tea and paddy agricultural runoff, Sri Lanka. In: *Management of water, energy and bio-resources in the era of climate change: Emerging Issues and Challenges* (Ed: Raju NJ, Gossel W, Ramanathan AL & Sudhakar

- M). Springer, Netherlands and Capital Publishing, New Delhi; 205 – 218.
- Sanjaya H.L.K, Asanthi H. B. & **Jayasinghe U. A. D.** (2012): Estimation of Macroenthos Secondary Productivity in a Headwater Stream: A Case Study During a Rainy Period at Deniyaya, Matara. In: Water Resources Research in Sri Lanka - Symposium Proceedings of The Water Professionals' Day. October 2012. Cap-Net Lanka, Postgraduate Institute of Agriculture (PGIA) and Geo-Informatics Society of Sri Lanka (GISSL); 185-193.
- Athula J.A., Wijenayake W.M.H.K. & **Jayasinghe U. A. D.** (2008): Strategies for management of culture-based fisheries in seasonal reservoirs of Sri Lanka. Proceedings of the Symposium on Participatory Approaches to Reservoir Fisheries Management – Issues, Challenges and Policies. October 2004. German Technical Cooperation, Colombo.; 179 – 191.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2006): Culture-Based Fisheries in Non-Perennial Reservoirs of Sri Lanka: Influence of reservoir morphometry and stocking density on yield. Fisheries Management & Ecology 13; 157 – 164.
- Kularatne M. G., Amarasinghe U. S., De Silva S. S. & **Jayasinghe U. A. D.** (2006): Investigation of Socio-Economic Characteristics of Agricultural Communities in Relation to the Development of Culture-Based Fisheries in Non-Perennial Reservoirs of Sri Lanka. In: Rebuilding fisheries in an uncertain environment. Proceedings of 13th biennial conference of International Institute of Fisheries Economics and Trade (IIFET 2006), Portsmouth, UK.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2005): Limnology and culture-based fisheries in non-perennial reservoirs of Sri Lanka. Lakes & Reservoirs: Research & Management. 10; 157 – 166.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2005): Trophic Classification of Non-perennial Reservoirs Utilized for the Development of Culture-based Fisheries, Sri Lanka. International review of hydrobiology 90; 209 – 222.
- Wijenayake W.M.H.K., **Jayasinghe U. A. D.**, Amarasinghe U. S., Athula J.A., Pushpalatha K.B.C. & De Silva S. S. (2005): Culture-Based Fisheries in Non-Perennial Reservoirs in Sri Lanka: Production and Relative Performance of Stocked species. Fisheries Management & Ecology 12; 249 – 258.

Conference Abstracts

- Walisundara WMTM, **Jayasinghe UAD**, and Asanthi HB (2016) Diel vertical distribution of zooplankton in a tropical reservoir on new moon and full moon days. International Forestry and Environment Symposium, Department of Forestry and Environmental Science, University of Sri Jayewardenepura, September 2016: 24 – 25 p.
- Jayasinghe UAD**, Gunawardhana C, Maithreepala R, Amarasinghe US and De Silva SS (2016) Quantification of the cattle/buffalo-borne organic content in non-perennial reservoirs utilized for culture-based fisheries in Sri Lanka. 7th World Fisheries Congress (WFC), BEXCO, Busan, Korea. May 23 – 27, 2016.
- Jayasinghe UAD** (2016) Invasiveness of Bighead and Silver Carp Revealed by the Stable Isotopic Signatures. 13th Academic Sessions, University of Ruhuna, 2nd March 2016.
- Jayasinghe UAD**, Zhang T and Liu J (2015) Stable Isotopic Perspective on Opportunistic Dietary Shifts of Bighead and Silver Carps Co-Occurring in Native Habitats, China. 12th Academic Sessions, University of Ruhuna, 4th March 2015.
- Koliada I, Balk H, Kubečka J, and **Jayasinghe UAD** (2015) Oscillations of position and target strength under the surface. Proceedings of the 38th Scandinavian Symposium on Physical Acoustics, Geilo hotel, Norway. February 1 - 4, 2015.
- Jayasinghe UAD**, Zhang T and Liu J (2014) Isotopic niche overlap of bighead and silver carps in four trophically different lakes in China. EcoFiL 2014 (Ecology of Fish in Lakes and Reservoirs) Conference, Institute of Hydrobiology, Biology Centre of the Academy of

Sciences of the Czech Republic, 8-11 September 2014, Ceske Budejovice, Czech Republic; 82-83 p.

- Baran R, Frouzová J, **Jayasinghe UAD**, Jůza T, Tušer M, Kubečka J (2014) The influence of lunar cycles on the occurrence of juvenile fish in pelagic area of a deep canyon-shaped reservoir. EcoFiL 2014 (Ecology of Fish in Lakes and Reservoirs) Conference, Institute of Hydrobiology, Biology Centre of the Academy of Sciences of the Czech Republic, 8-11 September 2014, Ceske Budejovice, Czech Republic; 67-68 p.
- De Silva HCC, Gamage TPD & **Jayasinghe UAD** (2012) Root architecture of typical bank vegetation and its contribution for river bank stability. 17th International Forestry and Environment Symposium, November 2012. Department of Forestry and Environmental Science, University of Sri Jayewardenepura, in collaboration with Ministry of Environment, Sri Lanka.
- Wijenayake W.M.H.K., **Jayasinghe U. A. D.**, Amarasinghe U. S., Gunaratne A. B. A. K. & De Silva S. S. (2005): Quantification of morphometric characteristics and aquatic vegetation cover in non-perennial reservoirs using remote sensing techniques for planning culture-based fisheries. International Workshop on Fisheries and Aquatic Research in Sri Lanka, organized by NARA and SIDA in March 2005; 43 – 44 p.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2004): Importance of limnological characteristics for the development of culture-based fisheries in non-Perennial Reservoirs of Sri Lanka. Proceedings of the 10th Annual Scientific Sessions of Sri Lanka Association for Fisheries and Aquatic Resources, 2004: 21 – 22 p.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2004): Effect of limnological characteristics on culture-based fish yield in non-perennial reservoirs of Sri Lanka. 7th Asian Fisheries Forum, Penang, Malaysia in December 2004. Promoting environmental friendly aquaculture; 107 – 108 p.
- Wijenayake W.M.H.K., **Jayasinghe U. A. D.**, Athula J.A., Pushpalatha K.B.C., Amarasinghe U. S. & De Silva S. S. (2004): Culture-Based Fisheries in Non-Perennial Reservoirs in Sri Lanka. 7th Asian Fisheries Forum, Penang, Malaysia in December 2004. Restoring and sustaining capture fisheries; 30 – 31 p.
- Jayasinghe U. A. D.**, Amarasinghe U. S. & De Silva S. S. (2003): An approach to classify seasonal reservoirs of Sri Lanka using Carlson's Trophic State Index. Proceedings of the 9th Annual Scientific Sessions of Sri Lanka Association for Fisheries and Aquatic Resources, 2003: 6-7p.

International magazine articles

- Jayasinghe U. A. D.** & Amarasinghe U. S. (2007): Buffaloes in favour of culture-based fisheries in Sri Lanka. Aquaculture Asia magazine July – September issue, Vol 12 (3); 3 – 7.