

**Andrews Apraku, Ph.D.**

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**AREAS OF SPECIALIZATION**

- Aquaculture, value chain analysis, water resources management, civil engineering and climate change

**EDUCATION**

- August, 2013 – June, 2019  
Ph.D. & MSc. (Aquaculture)  
Shanghai Ocean University, Shanghai-China.
- September, 2008 – May, 2011  
BSc. (Environment and Natural Resources)  
Presbyterian University College, Akropong-Akuapem Campus, Ghana.
- September, 2004 – May, 2007  
HND (Civil Engineering)  
Takoradi Technical University, Takoradi, Ghana.

**EXPERIENCE(S)**

- August, 2022 – Present – Lecturer/Head of Department (University of Energy and Natural Resource, Sunyani, Ghana)
- February, 2021- Present – Lecturer (University of Energy and Natural Resource, Sunyani, Ghana)
- June, 2019 – Present - External Reviewer/Editor (Shanghai Ocean University, China)
- March, 2019 – Present – Private Aquaculture Consultant (Takyi Mensah Farms, Eastern Region, Ghana)
- August, 2014 - May, 2019 - Teaching Assistant (Shanghai Ocean University, Shanghai, China)
- October, 2011 – March, 2013 – Teacher (College of Development Studies, Adukrom Akuapem, Ghana)
- March, 2012 - December 2012 - Biometric Verification Device Officer, National Voters Register Exhibition Officer, Data Entry Clerk (Electoral Commission, Ghana)
- June, 2010 - August, 2010 - Internship (Research Assistant) (World Vision, Ejura-Sekyere-Odumasi, Ghana)
- June, 2009 - August, 2009 - Internship (Field Researcher- Research methodology) (Presbyterian University College, Akropong-Akuapem, Ghana)
- September, 2007 - August, 2008 - National Service (Surveyor, Design engineer) (Department of Urban Roads, Koforidua, Ghana)

**RESEARCH AND PUBLICATIONS**

- Abdullateef Yusuf, Xuxiong Huang, Naison Chen, Songlin Li, **Andrews Apraku**, Weilong Wang, Adekunle David Micah (2020). Growth and metabolic responses of juvenile largemouth bass (*Micropterus salmoides*) to dietary vitamin c supplementation levels. *Aquaculture*, 534(9):736243 DOI: 10.1016/j.aquaculture.2020.736243
- Abdullateef Yusuf, Xuxiong Huang, Naisong Chen, **Andrews Apraku**, Weilong Wang, Angela Cornel, Mohammad M. Rahman (2020). Impact dietary vitamin C on plasma metabolites, antioxidant capacity and innate immunocompetence in juvenile largemouth bass, *Micropterus salmoides*. *Aquaculture Reports*, 17: 100383. DOI: 10.1016/j.aqrep.2020.100383
- Jingtin Yao, Peng Chen, **Andrews Apraku**, Gaigai Zhang, Zhongyuan Huang, Xueming Hua (2019). Hydrolysable tannin Supplementation Alters Digestibility and Utilization of dietary protein, lipid, and carbohydrate in grass carp (*Ctenopharyngodon idellus*). *Frontiers in Nutrition*, 6: 183. DOI: 10.3389/fnut.2019.00183
- **Apraku Andrews**, Huang Xuxiong, Ayisi Christian Larbi (2019). Effects of alternative dietary oils on immune response, expression of immune-related genes and disease resistance in juvenile Nile tilapia, *Oreochromis niloticus*. *Aquaculture Nutrition*, 00:1–12. <https://doi.org/10.1111/anu.12882>
- **Andrews Apraku**, Xuxiong Huang, Christian Larbi Ayisi and Abdullateef Yusuf (2019). Potential of corn oil as alternative dietary lipid source in aquaculture feeds. *Journal of Applied Sciences*, 19: 156-165. DOI: 10.3923/jas.2019.156.165
- Ayisi Christian Larbi, Zhao Jinliang, **Apraku Andrews** (2019). Consequences of Replacing Fish Oil with Vegetable Oils in Fish. *Journal of Animal Resources and Nutrition*, 4: 1: 3. DOI: 10.21767/2572-5459.100053
- **Andrews Apraku**, Xuxiong Huang, Abdullateef Yusuf, Angela Cornel, Christian L. Ayisi, and Berchie Asiedu (2019). Impact of dietary oil replacement on muscle and liver enzymes activity, histomorphology and growth-related genes on Nile tilapia. *Journal of Comparative and Biochemical Physiology*, 233: 15-25. <https://doi.org/10.1016/j.cbpc.2019.05.002>
- Christian Larbi Ayisi, Jinliang Zhao, Chen Yame, **Andrews Apraku**, Grace Debra (2019). Effects of replacing fish oil with palm oil in diets of Nile tilapia (*Oreochromis niloticus*) on muscle biochemical composition, enzyme activity, and mRNA expression of growth-related genes. *Fisheries and Aquatic Science*, 22:25. DOI: <https://doi.org/10.1186/S41240-019-0139-y>
- **Andrews Apraku**, Xuxiong Huang, and Christian L. Ayisi (2019). Fish oil replacement with virgin coconut and corn oil: Impact on growth performance, lipogenic and digestive enzyme activities, and mRNA expression of genes involved in lipid metabolism of Nile tilapia. ARE-OA-18-Nov-1093. UNDER REVIEW
- Christian Larbi Ayisi, Jinliang Zhao, Xue-Ming Hua, **Andrews Apraku** (2018). “Replacing fish oil with palm oil: Effects on mRNA expression of fatty acid transport genes and signaling factors related to lipid metabolism in Nile tilapia (*Oreochromis niloticus*)”. *Aquaculture Nutrition*, 24(4). DOI: 10.1111/anu.12821
- **Andrews Apraku**, Liping Liu, Xiangjun Leng, Emmanuel Joseph Rupia, Christian Larbi Ayisi (2017). “Evaluation of blended virgin coconut oil and fish oil on growth performance and resistance to *Streptococcus iniae* challenge of Nile tilapia (*Oreochromis niloticus*)”. *Egyptian Journal of Basic and Applied Sciences*, 4(3): 175-184. DOI: 10.1016/j.ejbas.2017.06.002

- **Andrews Apraku**, Liping Liu, Christian Larbi Ayisi (2017). “Trends and status of dietary coconut oil in aquaculture feeds”. *Reviews in Fisheries Science & Aquaculture* 25(2): 126-132. Doi :10.1080/23308249.2016.1245275
- Christian Larbi Ayisi, **Andrews Apraku**, Afriyie Gyamfua (2017). “A Review of Probiotics, Prebiotics, and Synbiotics in Crab: Present Research, Problems, and Future Perspective”. *Journal of shellfish Research*, 36(3):1-8. DOI: 10.2983/035.036.0329
- Kindong Richard, Nagarajan Prithiviraj, **Apraku Andrews**, Dai Xiaojie, Gao Chunxia, Muthulingam Minnady (2017). “Nutrients Quality and Chemical Composition of the Silver Carp (*Hypophthalmichthys molitrix*) from Lake Dianshan, Shanghai, China”. *Fish. Aquat. Sci.*, 12 (5): 226-232. DOI: 10.3923/jfas.2017.226.232
- Christian Larbi Ayisi, Xue-Ming Hua, **Andrews Apraku**, Afriyie Gyamfua, Beatrice Amankwah Kyei (2017). “Recent Studies Toward the Development of Practical Diets for Shrimp and Their Nutritional Requirements”. *HAYATI Journal of Biosciences*, 24: 109-117. DOI: 10.1016/j.hjb.2017.09.004
- Kindong Richard, Nagarajan Prithiviraj, **Andrews Apraku**, Larbi Ayisi & Dai Xiaojie (2017). “Biochemical composition of Predatory carp (*Chanodichthys erythropterus*) from Lake Dianshan, Shanghai, China”. *Egyptian Journal of Basic and Applied Sciences*, 4:297-302. DOI: 10.1016/j.ejbas.2017.10.001
- Christian Larbi Ayisi, Elliot Haruna Alhassan, Dorcas Attuabea, **Andrews Apraku** (2016). “Aquaculture extension services:A case study of fish farms in the eastern region of Ghana”. *International Journal of Fisheries and Aquatic Studies*, 4(4): 24-30. <http://www.fisheriesjournal.com/archives/2016/vol4issue4/PartA/4-2-98-520.pdf>
- Christian Larbi Ayisi, Elliot Haruna Alhassan, Dorcas Addo, Benjamin Osaey Agyei, **Andrews Apraku** (2016). “Aquaculture extension services: A case study of fish farms in the eastern region of Ghana”. *International Journal of Fisheries and Aquatic Studies*, 4(4): 24-30. [www.fisheriesjournal.com](http://www.fisheriesjournal.com)
- John Adu Kumi, Mary Adu Kumi, **Andrews Apraku** (2015). “Threats to the Conservation of Wetlands in Ghana: The Case of Songor Ramsar Site”. *Journal of Scientific Research & Reports* 6(1): 13-25, ISSN: 2320-0227. DOI: 10.9734/JSRR/2015/13906
- **Andrews Apraku** & Mary Adu-Kumi (2014). “Sustainable Development: Rainwater Quality and Safe Use (A case study in Adukrom Akwapim)”. *International Journal of Water Research* 2(1):21-26. [http://www.urpjournals.com/table\\_of\\_contents.php?journalID=48](http://www.urpjournals.com/table_of_contents.php?journalID=48)
- Dinah Aninakwah-Boahene, **Andrews Apraku**, Mary Adu-Kumi (2014). “Perception of Inhabitants in Bui Township on Causes and Effects of Onchocerciasis, Ghana”. *IJSTR Volume 3-Issue 4*, ISSN 2277-8616. <http://www.ijstr.org/final-print/apr2014/Perception-Of-Inhabitants-In-Bui-Township-On-Causes-And-Effects-Of-Onchocerciasis-Ghana.pdf>
- Osei Dominic, Shirley Lamptey, Christian Larbi Ayisi, **Andrews Apraku** (2014). “Effects of Rhizobium Inoculants and Growth Stages on Shoot Biomass and Yield of Soybean (*Glycine Max* (L.) Merrill)”. *IJSTR Volume 3-Issue 4*, ISSN 2277-8616. <http://www.ijstr.org/final-print/apr2014/Effects-Of-Rhizobium-Inoculants-And-Growth-Stages-On-Shoot-Biomass-And-Yield-Of-Soybean-Glycine-Max-l-Merril.pdf>

### Some Selected Conferences

- Symposium: Building Food Security on Home Grown Food and Renewable Energy Technologies; The Role of Fisheries and Water Resources. July, 2022. University of Energy and Natural Resources, Sunyani, Ghana.
- Seminar: Innovative Teaching and Assessment Practices in Higher Education Training. January, 2022. University of Energy and Natural Resources, Sunyani, Ghana.
- Fourth Joint Postgraduate Seminar for Aquaculture Nutrition and Feed Between Shanghai Ocean University and East China Normal University, April, 2019. Shanghai Ocean University, Shanghai, China.
- Seminar on the Basics of Aquaculture Lipid Sources, April, 2019. Shanghai Ocean University, Shanghai, China.
- International Promotion Program Workshop and Social Impact of Rice Fish Farming, December, 2018. Shanghai Ocean University, Shanghai, China.
- 2017 Second International Symposium in Food and Health (ISFH), November, 2017. Shanghai Ocean University, Shanghai, China.
- The Sixth East China Aquatic Animal Nutrition and Feed Science and Technology Forum, December, March, 2018. Ningbo, Zhejiang, China.
- Asian-Pacific Aquaculture 2016 International Conference and Exposition, April, 2016. World Aquaculture Society, Surabaya, Indonesia.

#### **WEB/ZOOM CONFERENCES**

- Biofloc Aquaculture for Fish Farmers Wizards. Johannesburg, South Africa. Zoom workshop – Aquaculture Africa Magazine. September 23<sup>rd</sup>, 2021.
- Practical Understanding of Aquafeed Formulation. Johannesburg, South Africa. Zoom workshop – Aquaculture Africa Magazine. June 4<sup>th</sup>, 2021.
- Aquatic Animal Health. Johannesburg, South Africa. Zoom workshop – Aquaculture Africa Magazine. October 2<sup>nd</sup>, 2021.
- Ocean Decade Laboratories – An Inspiring and Emerging Ocean. Zoom workshop. United Nation Decade of Ocean Science and Sustainable Development. July 6-7<sup>th</sup>, 2021.
- First Hybrid Aquaculture Conference in West Africa. World Aquaculture Society. Chamber of Aquaculture. University of Ghana, Legon, Ghana. May 14-16<sup>th</sup>, 2021.

#### **PERSONAL SKILLS AND COMPETENCES**

Language(s): Excellent oral and written communication in English, Twi and Chinese (Oral)

Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™); graphic design applications (Adobe Illustrator™, Photoshop™), SPSS and GraphPad Prism.

#### **RESEARCH INTEREST AND DEVELOPMENT**

My interest remains in sustainable development and empowering people in developing countries to bridge gaps in food security and to alleviate poverty. I intend to build on the basics of researches and investigations into the best possible practices and management in life sciences (Fish feed, nutrition and diseases both in marine and freshwater resources) and fisheries to contribute directly to increasing

economic status in deprived countries in a healthy and competitive manner and build a good network for the development of our communities in whole.