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Muhammed is currently a PhD candidate at the University of British Columbia and Nippon Foundation-Nereus program research fellow. His research aims to understand mariculture potential future contribution to global seafood production under climate change by developing predictive models to forecast the ocean suitability for mariculture and estimating mariculture production potential. To understand the complicated question related to socio-economic and identify the proper public policy to promote sustainable practises and production, he used an expert workshop to identify specific mariculture development drivers and eventually develop pathways narratives for mariculture. Participants focus on extending the basic narratives of the Shared Socioeconomic Pathways (SSPs) to the mariculture food system. He plans to focus on developing a set of quantitative drivers and model the narratives in the future. Before the commencement of his PhD, he has worked as an aquaculture technician at AquaBioTech, Malta, aquaculture extension officer, farm supervisor and aquaculture training officer in both public and private organisations in Nigeria. Past research address feed utilisation and water quality management in aquaculture, in addition to the efficiency of outdoor and indoor aquaculture facilities. He has also researched the dynamics and reproduction potential of African pelagic fishes. Muhammed held a Nigeria Scholar Network Scholarship (2007-2009), German Academic Exchange Service scholarship (2012-2014) and Erasmus plus scholarship (2015). He has a bachelor's degree in Aquaculture Management from the University of Agriculture, Abeokuta, Nigeria and a Master's degree in Aquatic Tropical Ecology from Universität Bremen, Germany.