

MCAA SEA Chapter – Country Representative MALAYSIA

[Dr Moritz Müller](#)



Nationality: German

My current place of work: Swinburne University of Technology Sarawak Campus

My research expertise and interests: My current research focusses on (a) greenhouse gas emissions from rivers, (b) biodiversity of microbes in the coastal waters of the South China Sea, (c) the role of bacteria in coral diseases, and (d) the diversity and application of endophytic fungi for bioremediation of heavy metals and plastic (electronic waste). This research will lead to a better understanding biogeochemical cycles in coastal waters of Borneo and the role that microbes play in them, as well as to the reduction of electronic waste via bioremediation.

My research expertise and interests: Marie Curie Experience:

Whilst completing my PhD, I was granted a Marie Curie Fellowship for three years at the UK's National Oceanography Centre in Southampton (NOCS) under the BIOTRACS program (Bio-transformation of trace elements in aquatic systems). The title of my PhD (Biogeochemistry) thesis was 'Biotic and abiotic alteration of hydrothermal sulphides at the seafloor' and focused on the influence of bacteria (especially *Marinobacter*) on sulphide alteration. Geochemical analyses were undertaken at the University of Southampton, UK (under Prof. Dr. Rachel Mills); microbiological analyses at the University of Manchester (Prof. Dr. Jon Lloyd) and organic biomarker analyses in University of Bristol (Prof. Dr. Rich Pancost). Electrochemical experiments were undertaken under A/P Dr. Guy Denuault from the Electrochemistry Department at the University of Southampton.

My offer to other researchers:

We regularly go out to local coral reefs, and peat-draining river systems such as Maludam and the Rajang. Interested students and colleagues are always welcome to join us for additional analyses.

Website links:

www.aques.org

www.facebook.com/AquaEnviroSci

https://www.researchgate.net/profile/Moritz_Mueller2

<https://www.linkedin.com/pub/moritz-müller/23/57/1b1>