



Kushani Perera

BSc (Special in Environmental Management and Forestry)

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Summary

Kushani joins us for her Ph.D. studies after completing her undergraduate degree in BSc. (Special) Environmental Management and Forestry at the University of Sri Jayewardenepura, Sri Lanka, with first-class honors. Her previous research investigated the effectiveness of domestic Reverse Osmosis (RO) units in removing fluoride and hardness in chronic kidney disease (CKD) affected areas in Sri Lanka with laboratory simulation experiments.

Kushani has worked for one of South Asia's largest apparel and textile manufacturing industry in Sri Lanka as an Executive Environment Sustainability for more than 3 years, where she was appointed to manage the energy, water, and carbon footprints of the organization and headed the biodiversity conservation project where 30 acres of degraded forest was restored within Sri Lanka. She also took part in the ocean plastic up-cycling project to produce yarn from PET bottles. In addition, as an intern at the National Cleaner Production Center Sri Lanka, she took part in a walk-through assessment in Resource Efficiency and Cleaner Production, conducted chemical, energy, and water audits in cooperate organizations, and made recommendations to improve their current practices.

Kushani's current research project looks into Atmospheric Microplastics and its possible human health impacts under the supervision of Prof Frederic Leusch, A/Prof. Susan Bengtson-Nash and Dr. Shima Ziajahromi. Her research interests include but are not limited to microplastics, water quality analysis, and waste management.

Research Expertise

- Microplastics
- Toxicity
- Spectrometry