

Biography – Dr Marilize Everts



Dr Marilize Everts is a Lecturer in Advanced Thermal Engineering for Electric Propulsion Systems in the Department of Mechanical Engineering at the University College London. She obtained her BEng in Mechanical Engineering from the University of Pretoria in 2012 subsequently her BEng (Hons), MEng and PhD in Mechanical Engineering in 2018. After being a Senior Lecturer for four years at the University of Pretoria, she joined UCL in March 2024.

Marilize is a member of the Advanced Propulsion Lab and the Energy and the Environment Research Group. Her research focuses on experimental and numerical heat transfer of single- and multi-phase flows and thus far led to new insights and an improved fundamental understanding of mixed convection and transitional flow. She is exploring experimental methods, developing and mixed convective flows, bubble dynamics, as well as surface modifications and characterisation.

She co-authored 20 journal papers and 30 conference papers and her performance and contribution to science and research has been recognised by national and international awards such as (1) Eskom Chairman's University Award for top achieving engineering graduate in 2012, (2) Southern Africa Association for the Advancement of Science (S2A3) Medal for most outstanding scientific Masters research at the University of Pretoria in 2014, (3) TATA Africa Doctoral Scholarship for Women in Science, Engineering and Technology in recognition of outstanding academic and research ability (2015 and 2017) and (4) one of only two L'Oréal-UNESCO For Women in Science Sub-Saharan Africa Postdoctoral Awards to recognise talented young female scientists (2018). She became a registered Professional Engineer at the Engineering Council of South Africa in 2022 and an elected member of the UK National Heat Transfer Committee in 2024.