

NVMTS 2024

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Dr Maxwell Gama Monteiro Jr.

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Maxwel Gama received his M.S. and PhD degrees in Physics from the Federal University of Juiz de Fora in Brazil in 2016 and 2020 respectively. In 2021, he joined the Magnetic Devices (MADE) team at Imec as a researcher, supporting MRAM development and pathfinding within its partner program. Since then, he has been working on two fronts, first - micromagnetics frameworks for modeling of multilayer structures in MRAM, which incorporate interlayer interactions, interfacial effects such as spin torques and voltage control of magnetic properties and impacts of local defects, current or temperature nonuniformities. Secondly, characterization of MRAM devices built iteratively from simulation predictions and thin film studies. His current focus is on understanding and improving the magnetic properties of STT and SOT MRAM devices with multilayer interactions during switching, contributing to both publications on peer reviewed journals as well as issuing patents as main and co-inventor.