



2023 Texas PREM Conference



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Mauricio De Leo is a *Chemical Engineering and Materials Science (CEMS)* doctoral student and Frank Snowden fellow at University of Minnesota (UMN) in Prof. Nathan Mara's research group. His research interests focus on enhancing the mechanical performance of materials by understanding the fundamental role of metal interfaces and defect-interface interactions at the nanoscale.

Mauricio received a BSc in Physics and a BSc in Chemistry and a minor in Business Administration from the University of Texas Rio Grande Valley. Before joining the CEMS department at UMN, he worked as an undergraduate research assistant in the Advanced Nanoscience Laboratory under the tutelage of Dr. Karen Martirosyan, working on microfluidics, magnetic particle synthesis for cancer theranostics, magnetoelectric material research, and magnetic membranes technology. Recently, along with his business partner Zachary McAllister, Mauricio won the 2023 CEMS Crucible Award in a business pitch competition with their company "*Greener Forward: A sustainable energy storage solution*".



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