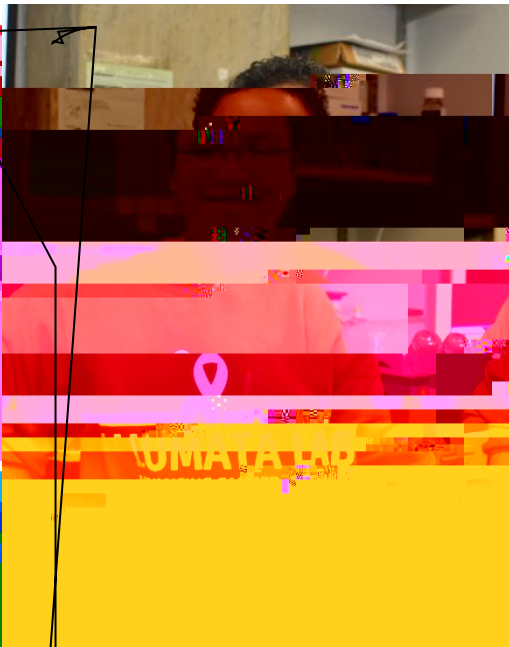


## The 12<sup>th</sup> Annual Exhibition of Undergraduate Research and Creative Activities - EXPO 2025



Live Oak Ballroom of Setzer Center  
April 23, 2025 - from 9:15 - 10:00am

Lloyd Lumta obtained his BS in Physics at the Western Mindanao State University, Philippines in 2002. He went to graduate school at the National High Magnetic Field Lab in Florida State University (FSU) in 2004 wherein he studied nuclear magnetic resonance (NMR) of organic conductors under the supervision of Prof. James Brooks at the National High Magnetic Field Laboratory. He earned his PhD in Condensed Matter Physics at FSU in 2008. In 2009, he moved to Dallas for a postdoc position at the University of Texas Southwestern Medical Center (UTSW). At UTSW, he assembled an MRI signal-enhancing instrumentation called hyperpolarizer that amplifies the MRI signals by > 10,000 fold. This machine was used for high-resolution cardiac and cancer imaging. In 2014, he moved to the neighboring University of Texas at Dallas (UTD) as an Assistant Professor in the Department of Physics wherein he leads a research group that applies this hyperpolarization technology for non-invasive diagnostic assessment of cancer. He was promoted to Associate Professor of Physics with tenure at UTDallas in 2020.