

Orthodontic Faculty Development Fellowship Award

Dr. Ildeu Andrade, *Medical University of South Carolina*

Short biography

Dr. Ildeu Andrade earned his orthodontic certificate and his Master's degree in 2002 from Marquette University, and his PhD in Cellular Biology from the Federal University of Minas Gerais, Brazil. Currently, he is an Associate Professor and Program Director at the Medical University of South Carolina (MUSC), SC. He is a Diplomate of the American Board of Orthodontics and the Brazilian Board of Orthodontics. He is a member of the Edward H. Angle Society of Orthodontists, Midwest section. In 2013 he was awarded with the Wayne G. Watson Award, which is given to the highest-rated research article published in the AJO-DO in 2012.



Brief description of the project

Rapid maxillary expansion is one of the most common procedures in orthodontics and the goal is to promote more skeletal than dental effects, or at least to counteract the increased dental tipping and dentoalveolar bending. The latest advancements in the digital manufacturing technologies makes it possible to directly fabricate maxillary expanders from 3D models with great accuracy and stiffness, compared to conventional ones. The aim of this randomized controlled clinical trial will be to compare the dentoskeletal effects produced by a 3D-printed versus a laboratory-fabricated expander in prepubertal patients, as well as the impact on quality of life, and pain perception during treatment.

Why the Foundation is important to your project

The Orthodontic Faculty Development Fellowship Award (OFDFA) from the American Association of Orthodontists Foundation will greatly help me refine my career development relating to teaching, clinical, and research skills, as well as support my research project. Long-term, I desire to establish myself as a recognized educator and researcher at the MUSC.

How Foundation funding is expected to or has benefitted your career?

The Foundation funding will allow me to achieve better outcomes by refining my teaching skills and enhancing the quality of my research work.