

Cleveland, OH 44106
(787) 378-7087
jep162@case.edu

Juan Enrique Perez De Jesus

PhD Candidate

Education

PhD in Biomedical Optics

Case Western Reserve University, Cleveland

JUN 2022 - PRESENT

BS in Biomedical Engineering

Case Western Reserve University, Cleveland

AUG 2018 - MAY 2022

GPA: 3.67

Research

Developing PSOC-T-NIRS Catheter for Ablation Treatment of Atrial Fibrillation, Case Western Reserve University, Cleveland

JUN 2022 - PRESENT

- Polarization sensitive optical tomography (PSOC-T) currently has limitations in imaging heart regions where tissue depth is greater than 1mm. By complementing PSOC-T with near infrared spectroscopy (NIRS), we aim to increase the imaging depth and therefore increase proper lesion assessment induced by heart ablation procedures.

Cancer-focused Summer Undergraduate Research (CanSUR), Case Western Reserve University, Cleveland

JUN 2021 - AUG 2021

- 10-week research program that served as a continuation of my previous research.

Prostate Cancer Research, Case Western Reserve University, Cleveland

MAY 2020 - AUG 2021

- Responsible for cleaning up data
 - Automated using python
- Machine Learning
 - Preparing Data & Model

Teaching Assistant

Case Western Reserve University, Cleveland

JAN 2022 - MAY 2022

- Grader & supplemental instructor for Principles of Biomedical Instrumentation.