

## **Daniela Leizaola – Curriculum Vitae**

PhD Candidate - Graduate Research Assistant  
Optical Imaging Laboratory  
Dept. of Biomedical Engineering  
Florida International University  
Miami, FL

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### **RESEARCH INTERESTS**

Development and optimization of near-infrared optical imaging technologies for clinical applications related to peripheral tissue oxygenation including diagnostics of diabetic foot ulcers, vascular calcification, and revascularization surgery.

### **EDUCATION**

**Florida International University, Miami, FL** **August 2021 - Current**  
**Ph.D. in Biomedical Engineering** **GPA: 3.47**

- *Evaluation of peripheral tissue oxygenation changes in chronic kidney-induced calcification models via noncontact tissue oxygenation imaging.*
- *Classification of skin color and melanin correction for an in-house smartphone oxygenation tool (SPOT).*
- *Analysis of diabetic foot ulcer healing via noncontact tissue oxygenation imaging.*

**Florida International University, Miami, FL** **August 2016-April 2021**  
**B.S. in Biomedical Engineering (Honors)** **GPA: 3.5 (Cum Laude)**

- *Minor in Chemistry*
- *Pre-medical student*
- *Honors College – Advanced Research and Creativity in Honors (ARCH) Thesis “Monte-Carlo-based near-infrared light propagation modeling for different skin types and melanin concentrations” (Dr. Anuradha Godavarty)*

### **RESEARCH/TEACHING EXPERIENCE**

**Graduate Research Assistant** **January 2023 - Current**  
Department of Biomedical Engineering, Florida International University, Miami, FL, USA

*Experimental and Research Work:*

- Developing efficient experimental protocols for non-contact imaging on human subjects, control and diabetic foot ulcer patients with/without amputations.
- Acquiring data (using multiple devices) from 65+ people utilized towards trends analysis.
- Designing and performed phantom experiments towards validation of skin color correction techniques on a near-infrared device and its limitations.
- Applied computational mathematical models to determine skin color effect on light penetration in human skin of varying pigments.
- Analyzed and interpreted data obtained from imaging or computational experiments using primarily MATLAB software. Utilized python for machine learning collaboration project.

- Developed custom scripts to automate and better visualize analyzed data.
- Utilized various optical devices such as spectrometer, spectrophotometer, optical power meter, integrating sphere systems, Snapshot NIR (KENT imaging), SkinColorCatch (Delfin).

*Regulatory Compliance:*

- Performing regular maintenance and calibration of laboratory equipment.
- Ensure that all research activities comply with institutional, local, and federal regulations concerning research safety and ethics
- Submission of yearly laboratory safety audit for 2 locations.

*Mentoring and Collaborating on Interdisciplinary Projects:*

- Assist in the training and mentoring of graduate, undergraduate and high school students.
- Work with researchers from other disciplines, such as biology, medicine, or engineering, to apply imaging technologies to a variety of research questions.
- Participate in team meetings and provide insights from an imaging perspective.

*Exposure of Work:*

- Preparing reports and presentations for lab meetings, conferences, and publication in scientific journals.
- Assisting in writing patents, and grant proposals and funding applications by providing technical expertise and preliminary data.
- Applying to personal grants, such as NIH F31, for correction of skin color bias in tissue oxygenation images of diabetic foot ulcers.

**Graduate Teaching Assistant**

August 2021 – December 2022

Department of Biomedical Engineering, Florida International University, Miami, FL, USA

- BME 3632: Fall 2022
- ABET Accreditation: Spring 2022 - Fall 2022
- BME 4050L: Fall 2021

**Undergraduate Learning Assistant**

January 2021 – April 2021

Department of Biomedical Engineering, Florida International University, Miami, FL, USA

- BME 3632: Spring 2021

**Undergraduate Teaching Assistant**

August 2020 – December 2020

Department of Biomedical Engineering, Florida International University, Miami, FL, USA

- BME 3632: Fall 2020

**Undergraduate Researcher, Optical Imaging Laboratory**

March 2019 - August 2021

- Monte Carlo based simulation studies on MCMATLAB software of light propagation on a three-layered skin model with varying melanin concentrations.
- Dynamic imaging study of non-contact pulse measurements with three control subjects.
- Optimization/stabilization of the driver of a near-infrared optical scanner for the reduction of instrument white noise.
- Compilation and analysis of experimental and clinical data with MATLAB.

**Webmaster, Optical Imaging Laboratory**

March 2019 - August 2021

- Redesigned website for a user-friendly experience using html language.
- Continuous updating of information regarding recent events, team members, and publications.

**College Preparation Tutor**, Sapneil Tutoring Inc.

October 2016-September 2019

- Created lesson plans for the SAT & ACT department.
- Managed schedules, payrolls, and training of 15 employees
- Completed recruitment events for new students.
- Tutored groups of up to 12 students

**Mathematics Tutor (K-12)**, Mathnasium

February 2016 - August 2016

- Taught 4-6 students at a time with varying levels of mathematics.
- Managed lesson plans and inventories for students to be instructed.

**AWARDS (11)**

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1. Graduate & Professional Student Committee Travel Award (\$500), Spring 2024
2. First place in FIU Diabetes Awareness Day (\$50), Fall 2023
3. Top 3 in 3MT competition at the college level, Fall 2023
4. Graduate & Professional Student Committee Travel Award (\$650), Fall 2022
5. Third place in FIU BME Senior Design Oral Presentation, Spring 2021
6. Third place in FIU BME Senior Design Poster Presentation, Spring 2021
7. Third place in BME Undergraduate Research Day Poster at FIU (\$50), Fall 2020
8. Norman R Weldon Biomedical Engineering Undergraduate Student Summer Research Internship (\$1000), Summer 2020
9. Norman R Weldon Biomedical Engineering Undergraduate Student Summer Research Internship (\$2400), Summer 2019
10. Student Government Association Merit Scholarship (\$500), Spring 2017
11. Florida Bright Futures Medallion Scholarship (\$13,000), August 2016- April 2021
12. Florida International University Gold & Blue Scholarship (\$750/semester), August 2016- April 2021

**PATENT (1)**

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1. “*Near-infrared based peripheral vascular imaging technique to detect vascular calcification,*” Inventors: Anuradha Godavarty, **Daniela Leizaola**, Kevin Leiva, Valentina Dargam, Josh Hutcheson (Invention Disclosure filed, Nov 2022) US Non-provisional Patent (filed)

**PUBLICATIONS (11)**

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\*Co-first author

1. Abderrachid Hamrani, **Daniela Leizaola**, Nikhil Kumar Reddy Vedere, Robert Scott Kirsner, Kacie Kaile, Alexander Lee Trinidad, Anuradha Godavarty. “*AI Dermatochroma Analytica (AIDA): Bridging Smart Technology and Dermatology for Enhanced Skin Color Classification*” (Submitted to Computer Methods and Programs in Biomedicine)
2. **Daniela Leizaola**, Valentina Dargam, Kevin Leiva, Haniyeh Alirezaei, Joshua Hutcheson, And Anuradha Godavarty\*. “*Effect of chronic kidney disease induced calcification on*

*peripheral vascular perfusion using near-infrared spectroscopic imaging*” Biomedical Optics Express: V15, pgs. 277-293 (December 2024) <https://doi.org/10.1364/BOE.503667>

3. Kevin Leiva\*, **Daniela Leizaola\***, Isabella, Valentina Dargam, Haniyeh Alirezaei, Kacie Kaile, Edwin Robledo, Joshua Hutcheson, Anuradha Godavarty, “*Spatial-temporal oxygenation mapping using a near-infrared optical scanner: Towards peripheral vascular imaging*,” Annals of Biomedical Engineering: V51, pgs. 2035 - 2047 (May 2023) <https://doi.org/10.1007/s10439-023-03229-7>

Conference Proceedings (8)

4. **Daniela Leizaola**, Nikhil Vedere, Shelly Sinclair, Kacie Kaile, Alex L. Trinidad, Wensong Wu, Abderrachid Hamrani, Robert Kirsner, Anuradha Godavarty. “*Skin Color Classification by Deep Learning and Traditional Thresholding Techniques during NIR Imaging*” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 10, 2024)
5. Himaddri Shakhar Roy, Kacie Kaile, Fernando Sebastian Chiwo, **Daniela Leizaola**, Anuradha Godavarty. “*Tissue Curvature Correction in NIRS Imaging Using Uniform and Gaussian Light Source Illumination*” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 10, 2024)
6. Aasma Dahal\*, **Daniela Leizaola\***, Faiza Nazir, Valentina Dargam, Joshua Hutcheson, Anuradha Godavarty, “Peripheral hemodynamic flow correlation changes in mice with vascular calcification using NIRS imaging approach,” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL (April 10, 2024)
7. **Daniela Leizaola**, Kacie Kaile, Maria Hernandez Hernandez, Renato Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil Vedere, Himaddri S. Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty. “*Tissue Oxygenation Changes with Debridement in DFUs Using a Smartphone-based NIRS Imaging Device*” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 8, 2024)
8. Fernando S. Chiwo\*, **Daniela Leizaola\***, Kacie Kaile, Maria Hernandez Hernandez, Ricardo A. Avila, Renato Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil Vedere, Himaddri S. Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty. “*Combining Tissue Oxygenation and Thermal Maps to Monitor Healing Status of Diabetic Foot Ulcers using Smartphone-based Imaging Devices*” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 7, 2024)
9. **Daniela Leizaola\***, Masrur Sobhan\*, Kacie Kaile, Ananda Mondal, Anuradha Godavarty, “*Deep learning algorithms to classify Fitzpatrick skin types for smartphone-based NIRS imaging device*,” SPIE: Defense and Commercial Sensing 2023, Orlando Florida (May 1, 2023) <http://dx.doi.org/10.1117/12.2665179>
10. Masrur Sobhan\*, **Daniela Leizaola\***, Ananda Mondal, Anuradha Godavarty, “*Subject Skin Tone Classification with Implications in Wound Imaging using Deep Learning*,” International Conference on Computational Science and Computational Intelligence, Las Vegas, Nevada CSCI: V11, pgs. 1648-1653 (December 14, 2022) doi: 10.1109/CSCI58124.2022.00331
11. **Daniela Leizaola\***, Valentina Dargam\*, Kevin Leiva, Haniyeh Alirezaei, Joshua Hutcheson, Anuradha Godavarty. “*Peripheral Oxygenation Differences in Mice with Chronic Kidney Disease*” Biophotonics Congress: Biomedical Optics 2022 (Translational, Microscopy, OCT,

OTS, BRAIN), Technical Digest Series (Optica Publishing Group, 2022), paper JM3A.23, Ft. Lauderdale, FL (April 25, 2022) [Poster]

## **RESEARCH PRESENTATIONS (32)**

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### **National (16: 8-Oral 8-Poster)**

\*Presenter

1. Fernando Chiwo\*, **Daniela Leizaola**, Kacie Kaile, Maria H. Hernandez, Ricardo A. Avila, Renata Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil K. Reddy, Himaddri S. Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty. *“Smartphone-based Monitoring of Healing Status in Diabetic Foot Ulcers Using Tissue Oxygenation and Thermal Maps,”* Society of Advances in Wound Care 2024, Orlando, Florida (May 14-18, 2024) [Poster]
2. Fernando Chiwo\*, **Daniela Leizaola**, Ricardo A. Avila, Renata Sousa, Jose P. Ponce, Stanley Mathis, David G. Armstrong, Anuradha Godavarty. *“Differentiate Healing, Non-Healing, and Infectious Diabetic Foot Ulcers Using a Smartphone-based Thermal Scanner,”* Orlando Florida (May 14-18, 2024) [Poster]
3. **Daniela Leizaola\***, Kacie Kaile, Maria H. Hernandez, Renata Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil K. Vedere, Himaddri S. Roy, Manuel Leizaola, David G. Armstrong, Anuradha Godavarty. *“Image-Guided Scalpel Debridement of Diabetic Foot Ulcers Using a Smartphone-based Tissue Oxygenation Tool”* Orlando Florida (May 14-18, 2024) [Poster]
4. Maria H. Hernandez\*, **Daniela Leizaola**, Kacie Kaile, Renato Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil K. Reddy, Himaddri Shakar Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty, *“Assessing Diabetic Foot Ulcer Healing with SPOT: An Innovative Smartphone-Based Oxygenation Imaging Approach,”* Annual South Florida Translational Symposium and Annual LSSF UR Symposium, Miami and Port St Lucie, FL (April 11 & 13, 2024) [Poster]
5. Fernando S. Chiwo, **Daniela Leizaola**, Kacie Kaile, Maria Hernandez Hernandez, Ricardo A. Avila, Renato Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil Vedere, Himaddri S. Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty\*. *“Combining Tissue Oxygenation and Thermal Maps to Monitor Healing Status of Diabetic Foot Ulcers using Smartphone-based Imaging Devices,”* Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 7, 2024) [Oral]
6. **Daniela Leizaola\***, Kacie Kaile, Maria Hernandez Hernandez, Renato Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil Vedere, Himaddri S. Roy, Manuel I. Leizaola, David G. Armstrong, Anuradha Godavarty. *“Tissue Oxygenation Changes with Debridement in DFUs Using a Smartphone-based NIRS Imaging Device,”* Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 8, 2024) [Oral]
7. Himaddri Shakhari Roy\*, Kacie Kaile, Fernando Sebastian Chiwo, **Daniela Leizaola**, Anuradha Godavarty. *“Tissue Curvature Correction in NIRS Imaging Using Uniform and Gaussian Light Source Illumination,”* Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 7, 2024) [Poster]

8. **Daniela Leizaola\***, Nikhil Vedere, Shelly Sinclair, Kacie Kaile, Alex L. Trinidad, Wensong Wu, Abderrachid Hamrani, Robert Kirsner, Anuradha Godavarty. “*Skin Color Classification by Deep Learning and Traditional Thresholding Techniques during NIR Imaging,*” Biophotonics Congress: Biomedical Optics 2024, Ft. Lauderdale, FL. (April 10, 2024) [Oral]
9. **Daniela Leizaola\***, Masrur Sobhan, Kacie Kaile, Ananda Mondal, Anuradha Godavarty, “*Deep learning algorithms to classify Fitzpatrick skin types for smartphone-based NIRS imaging device,*” SPIE: Defense and Commercial Sensing 2023, Orlando Florida (May 1, 2023) [Oral]
10. Masrur Sobhan\*, **Daniela Leizaola**, Ananda Mondal, Anuradha Godavarty, “*Subject Skin Tone Classification with Implications in Wound Imaging using Deep Learning,*” International Conference on Computational Science and Computational Intelligence, Las Vegas, Nevada (December 14, 2022) [Oral]
11. **Daniela Leizaola\***, Valentina Dargam, Kevin Leiva, Faiza Nasir, Joshua Hutcheson, Anuradha Godavarty, “*A Low-Cost Non-Invasive Optical Technique to Assess Presence or Absence of Vascular Calcification via Peripheral Tail Imaging in Mice,*” Biomedical Engineering Society Annual Meeting, San Antonio, TX (October 12-15, 2022) [Poster]
12. **Daniela Leizaola\***, Valentina Dargam, Kevin Leiva, Haniyeh Alirezai, Joshua Hutcheson, Anuradha Godavarty, “*Peripheral Oxygenation Differences in Mice with Chronic Kidney Disease,*” Biophotonics Congress: Biomedical Optics 2022 (Translational, Microscopy, OCT, OTS, BRAIN), Ft. Lauderdale, FL (April 24-27, 2022) [Poster]
13. **Daniela Leizaola\***, Edwin A. Robledo, Rolf. B Saager, Anuradha Godavarty, “*Near-infrared Light Propagation Analysis of Fitzpatrick Skin Types Using Monte-Carlo,*” National Conference on Undergraduate Research 2021, (April 12, 2021) [Oral]
14. **Daniela Leizaola\***, Edwin A. Robledo, Rolf. B Saager, Anuradha Godavarty, “*Near-infrared light propagation analysis of Fitzpatrick skin types using Monte-Carlo,*” 2021 Florida Undergraduate Research Conference, Tallahassee, FL, (February 27, 2021) [Oral]
15. **Daniela Leizaola\***, Edwin A. Robledo, Anuradha Godavarty, “*Monte-Carlo Based Near-Infrared Light Propagation Modeling for Different Skin Types and Melanin Concentrations,*” BMES Annual Meeting Symposium 2020, Miami, FL, (October 12-15, 2020) [Poster]

**Internal (17: 4-Oral 14-Poster)**

\*Presenter

16. Aasma Dahal\*, **Daniela Leizaola**, Faiza Nazir, Valentina Dargam, Joshua Hutcheson, Anuradha Godavarty. “Changes in hemodynamic correlation maps in mice with vascular calcification,” Miami Heart Day Symposium, Florida International University, Miami, FL (February 16, 2024), Graduate Research Day (March 8, 2024), Graduate Student Appreciation Week (April 1, 2024) [Poster]
17. Maria Hernandez\*, Sonu Durgappa, Ricardo Avila, Arundhathi Arun, Anarelis Galvez, **Daniela Leizaola**, Fernando Chiwo, Anuradha Godavarty, “*Optimization of tissue-mimicking phantoms using integrating sphere system measurements,*” Undergraduate Research Day, Florida International University, Miami, FL (April 2, 2024) [Poster]
18. **Daniela Leizaola\***, Kacie Kaile, Maria H. Hernandez, Renata Sousa, Jose P. Ponce, Stanley Mathis, Alexander L. Trinidad, Nikhil K. Vedere, Himaddri S. Roy, Manuel Leizaola, David

- G. Armstrong, Anuradha Godavarty. *“An objective aid for diabetic foot ulcer debridement utilizing an in-house NIRS imaging device,”* BME Graduate Research Day, Florida International University, Miami, FL (March 8, 2024) [Poster]
19. Himaddri Shakhar Roy\*, Kacie Kaile, Fernando Sebastian Chiwo, **Daniela Leizaola**, Anuradha Godavarty. *“Tissue Curvature Correction using Monte Carlo Simulation for NIRS Imaging.”* Graduate Research Day, Florida International University, Miami, FL (March 8, 2024), Graduate Student Appreciation Week (FIU, April 1, 2024) [Poster]
  20. **Daniela Leizaola\***, *“Can skin color affect tissue oxygenation images?”* 3MT – Three Minute Thesis, Florida International University, Miami, FL (January 26, 2024) [Oral]
  21. **Daniela Leizaola\***, Abderrachid Hamrani, Anuradha Godavarty. *“Classifying skin color to improve accuracy in tissue oxygenation images of diabetic foot ulcers,”* Diabetes Awareness Day, Florida International University, Miami, FL (November 17, 2023) [Poster]
  22. Himaddri Shakhar Roy\*, **Daniela Leizaola**, Maria Hernandez, Kacie Kaile, Fransisco PerezClavijo, Anuradha Godavarty. *“Assess the effect of debridement by measuring the tissue oxygenation using a smartphone-based near-infrared spectroscopy device.”* Diabetes Awareness Day, Florida International University, Miami, FL (November 17, 2023) [Poster]
  23. Maria Hernandez\*, Sonu Durgappa\*, Arundhathi Arun, Anarelis Galvez, Daniela Leizaola, Fernando Chiwo, Anuradha Godavarty, *“Development and Standardization of Agar-Based Gel Phantoms Mimicking the Dermis,”* Diabetes Awareness Day, Miami, FL, (November 17, 2023) [Oral]
  24. Maria Hernandez\*, Sonu Durgappa\*, Arundhathi Arun, Anarelis Galvez, **Daniela Leizaola**, Fernando Chiwo, Anuradha Godavarty, *“Development and Standardization of Agar-Based Gel Phantoms Mimicking the Dermis,”* Undergraduate Research Day, Miami, FL, (November 3, 2023) [Poster]
  25. Anarelis Galvez\*, **Daniela Leizaola**, Aasma Dahal, Anuradha Godavarty, *“Changes in blood flow patterns with the onset of vascular calcification using optical imaging techniques,”* FIU summer research internship (SRI) Day, Miami, FL, (August 9, 2023) [Oral]
  26. **Daniela Leizaola\***, Masrur Sobhan, Kacie Kaile, Ananda Mondal, Anuradha Godavarty, *“Classification of Fitzpatrick skin types for smartphone-based NIRS imaging device using deep learning algorithms,”* Graduate Research Day 2023, Florida International University, Miami, FL (March 3, 2023) [Poster]
  27. **Daniela Leizaola\***, *“Can vascular calcifications be detected by non-contact peripheral imaging?”* 3MT – Three Minute Thesis, Florida International University, Miami, FL (December 12, 2022) [Oral]
  28. Faiza Nazir\*, **Daniela Leizaola**, Valentina Dargam, Kevin Leiva, Anuradha Godavarty, Joshua Hutcheson, *“Near-infrared Imaging Detects Altered Flow Patterns due to Vascular Calcification in Chronic Kidney Disease,”* Undergraduate Research Day, Florida International University, Miami, FL (September 30, 2022) [Poster]
  29. **Daniela Leizaola\***, Valentina Dargam, Kevin Leiva, Haniyeh Alirezaei, Joshua Hutcheson, Anuradha Godavarty, *“Non-Contact Near-Infrared Analysis of Perfusion of Mice Tail During Progression of Chronic Kidney Disease,”* Heart Day 2022 & Graduate Research Day, Florida International University, Miami, FL (February 18, 2022; March 9, 2022) [Poster]

30. Haniyeh Alirezaei\*, **Daniela Leizaola**, Valentina Dargam, Kevin Leiva, Hooi Hooi Ng, Joshua Hutcheson, Anuradha Godavarty, “*Oxygenation Changes During Progression of Chronic Kidney Disease in Mice Using Near Infrared Spectroscopy*,” Undergraduate Research Day, Florida International University, Miami, FL (September 24, 2021) [Poster]
31. **Daniela Leizaola\***, Edwin A. Robledo, Rolf. B Saager, Anuradha Godavarty, “*Near-infrared light propagation analysis of Fitzpatrick skin types using Monte-Carlo*,” Annual Undergraduate Research at FIU Conference 2021, Sweetwater, FL, (March 24, 2021) [Poster]
32. **Daniela Leizaola\***, Edwin A. Robledo, Anuradha Godavarty, “*Monte-Carlo Based Near-Infrared Light Propagation Modeling for Different Skin Types and Melanin Concentrations*,” Undergraduate Research Day, Florida International University, Miami, FL (September 25, 2020) [Poster]
33. **Daniela Leizaola\***, Kevin Leiva, and Anuradha Godavarty, “*Non-contact pulse measurements using a near-infrared optical imager*,” Undergraduate Research Day, Florida International University, Miami, FL (October 4, 2019) [Poster]

## **MENTORSHIP (21)**

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### **Graduate Students (4)**

- Shelley Sinclair: Fall 2023
- Nikhil Kumar Reddy Vedere: Spring 2023 – Spring 2024
- Himmadri Shakar Roy: January 2023 – Current
- Aasma Dahal: May 2023 – Current

### **Undergraduate Students (11)**

- Stephanie Amaro – Literature compilation of diabetic ulcer studies involving thermal and/or optical imaging, February 2024 – Current
- Divina Campbell – Phantom studies to emulate different pigments in skin for optical imaging validation, February 2024 – Current
- Sebastian Giraldo – Compilation of data for analysis of trends during debridement of diabetic foot ulcers, February 2024 – Current
- Alejandro Martinez – Development of graphical use interface for rapid tissue oxygenation map display, October 2023 – Current
- Ricardo Avila – Organization and processing of multimodal data acquired from diabetic foot ulcer patients, September 2023 – Current (CURE Trainee)
- Frank Diaz Martinez – Current methods used to classify skin color using visual images, September 2023 – October 2023
- Maria Hernandez Hernandez – Phantom studies to emulate bulk skin for optical imaging validation. Organization and processing of subject-acquired images for longitudinal feature extraction and trend analysis,  
     June 2023 – Current (CURE Researcher)  
     February 2023 – Current (Lab Coordinator)
- Anna Paul – Processing of subject-acquired images for feature extraction and organization, January 2023 – June 2023



- Faiza Nasir – Reperfusion analysis through the development of chronic kidney disease in mice models, January 2022 – December 2022 (CURE Trainee)
- Noble Amadi – Feature extraction of skin images to categorize color type, October 2021-December 2022 (CURE Researcher)
- Haniyeh Alirezaei - Tissue Oxygenation Changes in Mice Models with The Development of Arterial Calcification, April 2021 – December 2021

### **High School Students (6)**

- Anarelis Galvez – Changes in blood flow patterns in mice tails with the onset of vascular calcification using optical imaging techniques, Summer 2023
- Arundhathi Arun – Agar-based optical phantom development modeling the dermis layer in the skin Summer 2023
- Kavita Doobay – Image segmentation technique and database compilation, Summer 2021
- Bhavya Saxena – Radiation-induced mucositis: etiology and diagnosis, Summer 2020
- Diya Agarwal – Design and implementation of an intraoral NIR device for radiation-induced mucositis, Summer 2020
- Emma Leiva – Design and implementation of an intraoral NIR device for radiation-induced mucositis, Summer 2020