

# Samanta Rodriguez

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## EDUCATION

**University of Michigan, Ann Arbor**, MI, United States  
*PhD Candidate in Robotics Department (Advisor: Nima Fazeli)*

Sep 2021 - Dec 2025

**University of Michigan, Ann Arbor**, MI, United States  
*Master of Science at Robotics, (GPA: 4.0/4.0)*

Sep 2021 – May 2024

**Florida International University**, FL, United States  
*Bachelor of Science at Mechanical Engineering (Summa Cum Laude)*

Sep 2016 – May 2020

## PUBLICATIONS

1. Samanta Rodriguez\*, Yiming Dou\*, Miquel Oller, Kevin So, Andrew Owens, Nima Fazeli, “*Cross-Sensor Touch Generation*,” Conference on Robot Learning (CoRL), 2025 (Oral presentation).
2. Samanta Rodriguez\*, Yiming Dou\*, William van den Bogert, Miquel Oller, Kevin So, Andrew Owens, Nima Fazeli, “*Contrastive Touch-to-Touch Pretraining*,” International Conference on Robotics and Automation (ICRA), 2025.
3. Shun Li, Samanta Rodriguez, Yiming Dou, Andrew Owens, Nima Fazeli, “*Tactile Functasets: Neural Implicit Representations of Tactile Datasets*,” International Conference on Robotics and Automation (ICRA), 2025.
4. Satya R. T. Peddada, Samanta B. Rodriguez, Kai A. James, James T. Allison, “*Automated Layout Generation Methods for 2D Spatial Packing*,” ASME International Design Engineering Technical Conferences (IDETC), 2020.

## INTERNSHIPS

**Manipulation and Machine Intelligence Lab**, MI, United States  
*Graduate Researcher (Fellowship-Funded)*  
*Advisors: Nima Fazeli*

Sep 2021 – May 2025

**Oak Ridge National Laboratory, Manufacturing Division**, TN, United States  
*Intern*  
*Advisors: Peter Wang*

Jun 2021 – Aug 2021

**Applied Research Center, Florida International University**, FL, United States  
*Undergraduate Researcher*

Sep 2019 – Jul 2020

*Advisors: Anthony Abrahao*

**POETS Research Center, University of Illinois, IL, United States**

May 2019 – Aug 2019

*Undergraduate Researcher, Summer Research Internship*

*Advisors: James Allison*

## **REVIEWING**

- Primary Reviewer: ICRA (2024, 2025), CoRL (2025), RA-L (2025)

## **MENTORING**

- Chitrangada Devulapalli (U of M, 2025) – Master’s student in Robotics at the University of Michigan
- Kevin So (U of M, 2023) – Master’s student in Robotics at the University of Michigan
- Dereck Fermin Oliveras (U of M, 2022) – Master’s student in Robotics at the University of Michigan

## **LEADERSHIP & SERVICE**

- Officer of Robotics Graduate Student Council (RGSC) 2022 – 2024
- DEI/RCE member of Robotic Department Committee 2022 – 2024

## **AWARDS & SCHOLARSHIPS**

- NSF Graduate Research Fellowship 2021 – 2026
- Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) Fellowship 2021 – 2026
- Rackham Presidential Graduate Fellowship 2022
- Outstanding Graduate Student in Mechanical Engineering, FIU 2020
- Winner – 2020 International Atomic Energy Agency challenge 2020
- NSF Fellowship for Summer Undergraduate Research Program - POETS Research Center 2019

## **SKILLS**

- Hardware: KUKA LBR iiwa Med R820, Digit, GelSlim, GelSight, TRI Soft Bubble, Intel-Realsense, ATI F/T sensor
- Programming Language : Python, Matlab
- Language : Spanish (native), English (fluent)