

Samanta Rodriguez

[Email](#) [Homepage](#) [Google Scholar](#)

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.

INTERSHIPS

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)