

Sebastian (Sebo) Diaz

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Education

Massachusetts Institute of Technology

June 2023 – Present

Ph.D., Machine Learning / HST

GPA: 5.00 / 5.00

Research Group(s): Computer Science & Artificial Intelligence Laboratory (CSAIL)

Research Laboratory of Electronics (RLE)

Advisor(s): Elfar Adalsteinsson & Polina Golland

University of Arizona

Aug. 2019 – May 2023

B.S., Biomedical Engineering; Minor in Mathematics

GPA: 3.95 / 4.00

Relevant Research

- *Learning Alongside Invariant Representations: Simplified Domain Generalization.*
In Preparation. Most up-to-date draft upon request.
Diaz, S., Dey, N., Zhang, M., Abaci-Turk, E., Grant, E., Golland, P., Adalsteinsson, E.
- *Robust Fetal Pose Estimation across Gestational Ages via Cross-Population Augmentation*
MICCAI 2025
Diaz, S., Billot, B., Dey, N., Zhang, M., Abaci-Turk, E., Grant, E., Golland, P., Adalsteinsson, E.
- *Design of Novel RF Pulse for Fetal MRI Refocusing Trains Using Rank Factorization (SLfRank) to Reduce SAR and Improve Image Acquisition Efficiency*
ISMRM 2022
Diaz, S., Arefeen, Y., Gagoski, B., Grant, E., Adalsteinsson, E.
- *Fetuses Made Simple: Modeling and Tracking of Fetal Shape and Pose*
MICCAI 2025
Liu, Y., Wang, P., **Diaz, S.**, Billot, B., Abaci-Turk, E., Grant, E., Golland, P.
- *Stochastic-Offset-Strategy Enhanced RF Pulse Optimization with Auto-Differentiation*
ISMRM 2024
Zhang, M., Arango, N., **Diaz, S.**, White, J., Adalsteinsson, E.
- *Sub-Millimeter Endoscope Demonstrates Feasibility of In Vivo Reflectance Imaging, Fluorescence Imaging, and Cell Collection in the Fallopian Tubes*
Journal of Biomedical Optics 2021
Cordova, R., Kiekens, K., Burrell, S., Drake, W., **Diaz, S.**, Kmeid, Z., Rice, P., Rocha, A., Yamada, S., Yozwiak, M., Nelson, O. L., Rodriguez, G. C., Heusinkveld, J., Shih, I-M., Alberts, D. S., Barton, J. K.

Invited Talks

Learning Alongside Invariant Representations:

Sept. 29th, 2025

Robust Generalization in Medical Imaging

MIT IMES Department Retreat

Boston, MA

Awards & Honors

Graduate Research Fellowship Program

2024

National Science Foundation

MathWorks Graduate Fellow

2024

MathWorks

School of Engineering - Distinguished Graduate Student Fellow

2023

Massachusetts Institute of Technology

Program for Exemplary Mentoring Fellow <i>Massachusetts Institute of Technology</i>	2023
Goldwater STEM Scholarship <i>Goldwater Foundation</i>	2022
Sophomore of the Year <i>University of Arizona</i>	2021
Native Health Care Scholar <i>Udall Foundation</i>	2021

Reviewer

MICCAI: PIPPI	2025
CVPR	2026