Sebastian (Sebo) Diaz

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Education

Massachusetts Institute of Technology   June 2023 – Present
Ph.D., Machine Learning / Health Sciences Technology   *GPA: 5.00 / 5.00*
Research Group(s): Computer Science & Artifical 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   2023
Massachusetts Institute of Technology

Goldwater STEM Scholarship   2022
Goldwater Foundation

Sophomore of the Year   2021
University of Arizona

Native Health Care Scholar   2021
Udall Foundation

Reviewer

MICCAI: PIPPI   2025
CVPR   2026