

# Sebastian (Sebo) Diaz

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## Education

<b>Massachusetts Institute of Technology &amp; Harvard University</b> <i>Ph.D., HST/Computer Science Artificial Intelligence Laboratory (CSAIL)</i>	June 2023 – Present GPA: 5.00 / 5.00
<b>University of Arizona</b> <i>B.S., Biomedical Engineering; Minor in Mathematics</i>	Aug. 2019 – May 2023 GPA: 3.95 / 4.00

## Relevant Research

*Robust Fetal Pose Estimation across Gestational Ages via Cross-Population Augmentation.*  
In Review 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 (Early Accept)  
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.

## Awards & Honors

<b>Graduate Research Fellowship Program</b> <i>National Science Foundation</i>	2024
<b>MathWorks Graduate Fellow</b> <i>MathWorks</i>	2024
<b>School of Engineering - Distinguished Graduate Student Fellow</b> <i>Massachusetts Institute of Technology</i>	2023
<b>Program for Exemplary Mentoring Fellow</b> <i>Massachusetts Institute of Technology</i>	2023
<b>Goldwater STEM Scholarship</b> <i>Goldwater Foundation</i>	2022
<b>Sophomore of the Year</b> <i>University of Arizona</i>	2021
<b>Native Health Care Scholar</b> <i>Udall Foundation</i>	2021