MAYA M. LASSITER

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EDUCATION

University of Pennsylvania, Philadelphia Doctor of Philosophy, Electrical and Systems Engineering	Fall 2019 - Present
Carnegie Mellon University, Pittsburgh Master of Science, Electrical and Computer Engineering Bachelor of Science, Electrical and Computer Engineering Minor in Global Engineering	Graduated 2019 Graduated 2017
RESEARCH EXPERIENCE	
Doctoral Candidate with the Miskin Nanorobotics Lab <i>University of Pennsylvania</i> , Philadelphia, PA, with M. Miskin	Fall 2019 - Present
Summer Research Program with Advanced Imager Technology of MIT Lincoln Laboratory, Lexington, MA, with C. Leitz	Group Summer 2019
Graduate Research Assistant in Electrical and Computer Engine Carnegie Mellon University, Pittsburgh, PA, with M. Chamanzar	eering 2017 - 2019
Graduate Student Laboratory Technician in Nanofabrication Fac Carnegie Mellon University, Pittsburgh, PA, with M. Moneck and G. Piaz	
EACHING EXPERIENCE	
University of Pennsylvania Teaching Assistant	
Engineering Electromagnets	Spring 2024
Nanoscale Science and Engineering	Fall 2023
Statistics for Data Science ESE 542	Summer 2020
Carnegie Mellon University Teaching Assistant	
Micro and Nano Systems Fabrication 18-615	Spring 2019
Fundamentals of Electromagnetics 18-300	Fall 2018
Introduction to Electrical and Computer Engineering 18-100	Summer 2018
Electronic Devices and Analog Circuits 18-220	Academic Year 2016 - 17

- M. Lassiter, J. Lee, K. Skelil, L. Xu, L. Hanson, W. Reinhart, D. Sylvester, M. Yim, D. Blaauw, M. Miskin. Microscopic Robots with Onboard Computers, *Science*, *Submitted*.
- L. Xu, M. Lassiter, X. Wu, Y. Kim, J. Lee, M. Yasuda, M. Kawa-minami, M. Miskin, D. Blaauw, D. Sylvester. A 210 x 340 x 50m Integrated CMOS System for Micro-Robots with Energy Harvesting, Sensing, Processing, Communication and Actuation, IEEE International Solid-State Circuits Conference (ISSCC), Invited Paper to the IEEE Journal of Solid-State Circuits (JSSC), Special Issue on ISSCC, February 2022.
- J. Reddy, M. Lassiter, M. Chamanzar. Parylene Photonics: A Flexible, Broadband Optical Waveguide Planform with Integrated Micro-mirrors for Biointerfaces, Nature Microsystems & Nanoengineering, 2020
- J. Reddy, M. Lassiter, R. Venkateswaran, M. Chamanzar. Integrated Parylene Photonic Waveguides with Embedded Micromirrors for Light Delivery and Manipulation Deep into Tissue, Conference on Lasers and Electro-Optics, Optical Society of America, 2019.
- M. Lassiter, A. Nanavati, E. Pintar, M. Xie, E. A. Teves, M. B. Dias. iSTEP 2015: Cross-cultural technology development toward language access for the Deaf and hard of hearing, tech. report CMU-RI-TR-16-32, Robotics Institute, Carnegie Mellon University, June 2016.

POSTERS AND PRESENTATIONS

- M. Lassiter, J. Lee, K. Skelil, W. Reinhardt, L. Xu, D. Blaauw, M. Miskin. Microscopic Robots with Onboard Computers, APS March Meeting Presentation 2024
- M. Lassiter, W. Reinhardt, L. Hanson, L. Xu, J. Lee, D. Sylvester, D. Blaauw, M. Miskin. Fabricating Reprogrammable Solar Microscopic Robots, APS March Meeting Presentation 2023
- M. Lassiter, J. Reddy, M. Chamanzar. Compact Discrete Light Source Packaging for Standalone Flexible Optical Neural Probes, IEEE EMBS Conference on Neural Engineering 2019.
- J. Reddy, M. Lassiter, M. Chamanzar. Parylene photonics: A flexible, biocompatible, integrated photonic system for optical monitoring and stimulation of deep tissue. SPIE Photonics West 2019.
- M. Lassiter, J. Reddy, M. Chamanzar. Flexible, polymer waveguide arrays with integrated 90-degree input/output ports for high-resolution light delivery to the brain, Society for Neuroscience Nanosymposium 2018.
- J. Reddy, M. Lassiter, R. Venkateswaran, L. Stewart, A. Barth, M. Chamanzar. Parylene optical waveguides: a new platform for implantable photonics, Carnegie Mellon Forum on Biomedical Engineering 2018. *Awarded Outstanding Poster Presentation

RECOGNITION

University of Pennsylvania Presidential Fellow	2021
Electrical and Systems Engineering Diversity, Equity, and Inclusion Fellow	2021
GEM PhD Fellow	2019
Carnegie Mellon University Outstanding Woman in Engineering Award	2019
William J. Happel Fellow	2018
GEM MS University Fellow	2017

OUTREACH AND SERVICE

University of Pennsylvania Electrical and Systems Engineering Committee on Diversity and Inclusion (2021)

University of Pennsylvania Advancing Women in Engineering Board Member (2020-21)

University of Pennsylvania School of Engineering Doctoral Student Advisory Board on Diversity and Inclusion (2019-20)

Carnegie Mellon University Leadership Search Committee Member:

Associate Vice President and Chief Information Officer (2019)

Executive Director of Counseling and Psychological (2018)

Vice President for Community Health and Wellness (2017)

Member of Fontaine Society, IEEE, IEEE-HKN, SfN, OSA