

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 <i>Minor in Global Engineering</i>	Graduated 2019 Graduated 2017

RESEARCH EXPERIENCE

Doctoral Candidate with the Miskin Nanorobotics Lab <i>University of Pennsylvania, Philadelphia, PA, with M. Miskin</i>	Fall 2019 - Present
Summer Research Program Intern with Advanced Imager Technology Group <i>MIT Lincoln Laboratory, Lexington, MA, with C. Leitz</i>	Summer 2019
Graduate Research Assistant in Electrical and Computer Engineering <i>Carnegie Mellon University, Pittsburgh, PA, with M. Chamanzar</i>	2017 - 2019
Graduate Student Laboratory Technician in Nanofabrication Facility <i>Carnegie Mellon University, Pittsburgh, PA, with M. Moneck and G. Piazza</i>	2017 - 2019

TEACHING EXPERIENCE

University of Pennsylvania Course Development Assistant Statistics for Data Science ESE 542	Summer 2020
Carnegie Mellon University Teaching Assistant Micro and Nano Systems Fabrication 18-615 Fundamentals of Electromagnetics 18-300 Undergraduate Course Development 18-2XX Introduction to Electrical and Computer Engineering 18-100 Electronic Devices and Analog Circuits 18-220	Spring 2019 Fall 2018 Summer 2018 Summer 2018 2016 - 17

PUBLICATIONS

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.

M. Lassiter, J. Reddy, R. Venkateswaran, M. Chamanzar. Multi-channel Flexible Optical Waveguide Neural Probes with Integrated Light Sources, *In Preparation*.

J. Reddy, **M. Lassiter**, M. Chamanzar. Parylene Photonics: A Flexible, Broadband Optical Waveguide Platform 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, 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, 9th International IEEE EMBS Conference on Neural Engineering 2019.

J. Reddy, **M. Lassiter**, M. Chamanzar. Parylene photonics: a novel platform for flexible biophotonics. 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