Maya M. Lassiter
Doctoral Student
Electrical and Systems Engineering
University of Pennsylvania

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Education

University of Pennsylvania	Electrical and Systems Engineering	PhD, 2024
Carnegie Mellon University	Electrical and Computer Engineering	M.S., 2019
Carnegie Mellon University	Electrical and Computer Engineering	B.S., 2017

Relevant Experience

- PhD Student with the Miskin Nanorobotics Lab — Fall 2019 - Present
  University of Pennsylvania, Philadelphia, PA, with M. Miskin
- Summer Research Program Intern in Group 87 — Summer 2019
  MIT Lincoln Laboratory, Lexington, MA, with C. Leitz
- Graduate Research Assistant in Electrical and Computer Engineering — 2017 - 2019
  Carnegie Mellon University, Pittsburgh, PA, with M. Chamanzar
- Graduate Student Laboratory Technician in Nanofabrication Facility — 2017 - 2019
  Carnegie Mellon University, Pittsburgh, PA, with M. Moneck and G. Piazza

Recognition

- University of Pennsylvania Dean's Fellow — 2019
- Joseph I. Daily Jr. Fellowship — 2019
- GEM PhD Fellow — 2019
- Carnegie Mellon University Outstanding Woman in Engineering Award — 2019
- NCWIT Collegiate Award Finalist — 2019
- William J. Happel Fellow — 2018
- GEM MS University Fellow — 2017

Publications

1. **M. Lassiter**, J. Reddy, R. Venkateswaran, M. Chamanzar. Standalone multi-channel soft optical neural probes, *Submitted: Nature Microsystems & Nanoengineering,* 2019.
2. J. Reddy, **M. Lassiter**, M. Chamanzar. Optoflex: A Flexible, Broadband Parylene Photonic Planform with Integrated Micro-Mirrors for Optical Biointerfaces, *Accepted: Nature Microsystems & Nanoengineering,* 2019.
3. 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.
4. **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

1. **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.
2. J. Reddy, **M. Lassiter**, M. Chamanzar. Parylene photonics: a novel platform for flexible biophotonics. *SPIE Photonics West* 2019
3. **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.
4. 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**

Teaching Experience

- Carnegie Mellon University Teaching Assistant
    - Micro and Nano Systems Fabrication 18-615 — S 2019
    - Fundamentals of Electromagnetics 18-300 — F 2018
    - Undergraduate Course Development 18-2XX — U 2018
    - Introduction to Electrical and Computer Engineering 18-100 — U 2018
    - Electronic Devices and Analog Circuits 18-220 — 2016-17

Outreach and Service

- 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)
- 2018 Pennsylvania Student Power Network Fellow
- Carnegie Mellon President's Task Force for Student Health and Well-Being (2016-17)
- Stever House Community Advisor (2016-17)
- Director College of Engineering Community Building Committee (2014-17)
- Member of Carnegie Mellon University Leadership Student Advisory Council (2014-17)
- Member of Fontaine Society, IEEE, IEEE-HKN, SfN, OSA