

About

I am an experienced engineer that works on next generation solar cells, optical displays, imaging, and sensing technologies (i.e. LiDAR). I have conducted research at MIT, Caltech, Northwestern, and XX University and have a proven track record of completing cutting edge projects related to optics and novel materials. I also have extensive knowledge in environmental issues and advocacy. For my work, I have been recognized as a MIT Presidential, National Science Foundation, National GEM, Sloan Foundation, and 20XX Facebook Fellow.

Google scholar profile: h-index=10, 10+ publications, cited over 900 times.

In addition to my technical work, I have developed media for educational sustainability initiatives that encouraged first-generation and minority high school students in East Los Angeles to enter STEM and 'green' careers. More recently, I co-authored a Dept. of Defense sponsored report on Power and Energy research.

Public Speaking

I have shared remarks on leadership, overcoming adversity and failure, and equity as a keynote speaker at the MIT XX 20XX Celebration and the 20XX MIT XX Symposium.

Outreach

One of my life commitments has been working with national leaders such as Professor XX YY (National Medal of Science) on higher education programs that promote diversity within STEM. I continue to work on these initiatives as a presenter for the MIT Grad Catalyst, application reviewer and mentor for the MIT Summer Research Program, President of the MIT Academy of Courageous Minority Engineers (ACME), Vice Chair of Community and Equity within the MIT Graduate Student Council, and EECS Visiting Committee Graduate Student Report.

Skills

Leadership: Project Management, Grant Writing, Public Presentations, STEM Outreach, Mentoring

Data: MATLAB, Mathematica

Technical: 3D Printing, Nanofabrication, Nanotechnology, Solar Cells, Displays, LiDAR, Photonics and Optics, Crystal Growth, Thin Films, Electron and Ion Microscopy, Spectroscopy

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