







3559 Burbank Drive
Ann Arbor, MI 48105
732-275-5051
mcala@umich.edu
www.mcallister.science
McAllisterSci
McAllisterSci



Andrew McAllister

Résumé

Summary

- Goal** A career where I can use my abilities to learn quickly, synthesize ideas, and communicate effectively to work towards solving big and small problems facing society.
- Communication** Answering the question, "So What?", about research. Giving technical subjects context and making them understandable for different audiences.

Education

- Expected: **PhD in Applied Physics**, *University of Michigan*, Ann Arbor, MI.
- August 2018 Relevant Coursework:
- o Public Policy 650 – Introduction to Science and Technology Policy Analysis
 - o Engineering 580 – Teaching Engineering
- 2012 **B.S. in Physics**, *Rensselaer Polytechnic Institute*, Troy, NY.

Public Engagement Experiences

- 2018 **Skype a Scientist**.
I write more about my participation in on my blog [here](#).
- 2017 **Nerd Nite Ann Arbor Talk**.
[LED Light Bulbs: Why Do They Cost an Arm and a Leg?](#)
- 2013-2016 **American Society for Engineering Education**.
Organized and ran a table at K-Grads Kid's Fair – an elementary school visit to University of Michigan. At the table, I helped demonstrate some concepts of signal analysis by using a laser to transmit music through open air.
- 2008-2012 **Society of Physics Students**.
Organized and ran multiple outreach events at local schools and on campus. A large project that I was involved with was organizing a full-day program on light and solar cells for the Harlem Academy's visit to Rensselaer with my advisor, Peter Persans.

Awards

- 2014 National Science Foundation Graduate Research Fellowship Program
- 2012 [Nadia Trinkala Service Award](#), Rensselaer Physics Department
- 2010 Rensselaer Polytechnic Institute [Founder's Award of Excellence](#)
- 2008 Boy Scouts of America, Eagle Scout

Leadership

- 2018-Present **Organizer**, *ComSciCon Michigan*, Ann Arbor, MI.
Work with other graduate students to organize, publicize and run a conference devoted to science communication in Ann Arbor Michigan.
- 2017-Present **Senior Editor**, *Students of Applied Physics Project*, *Applied Physics Student Council*, Ann Arbor, MI.
Develop story ideas and edit articles that PhD students write about each other's research.
[Example article](#)
- 2014-2015 **President**, *Local Chapter of American Society for Engineering Education*, Ann Arbor, MI.
Organize and run meetings, ensure that skill workshops have teachers, plan future workshops based on the needs of University of Michigan students.
- 2009-2011 **President**, *Local Chapter of Society of Physics Students*, Troy, NY.
Organize meetings and social events, foster a community of physics students, act as intermediary between faculty and students, help organize and run engagement events in local area.

Communication Training

- August 2017 **ComSciCon Chicago**, Chicago, IL.
- 2016 **Researchers Expanding Lay-Audience Teaching and Engagement (RELATE) Workshops**.
- o Over 3 months, worked on crafting messages and narratives, considering different audiences and making visual aids.
 - o Developed and produced a [YouTube video](#) highlighting my research.

General Audience Writing

1. **Using LEDs to Tell Plants What We Want From Them**, 2018.
Worked on as part of "Friends of Joe's Big Idea" Program, accepted at Harvard's *Science in the News* blog and being edited for publication.
2. **Your Nerd of Trust**, 2018.
Experimenting with very personal engagement with close friends and family via social media. This article invites these groups to view me as a trusted resource about science research. This post (and others) can be found at www.mcallister.science
3. **Atomistic Calculations Predict That Boron Incorporation Increases The Efficiency Of LEDs**, 2017.
Press release for research group. Picked up by the Department of Energy, National Energy Research Scientific Computing Center, and Semiconductor Today.
4. **How Gecko Feet Will Make Your Next Move Easier**, 2017.
Worked on and published with Michigan Science Writers. Experience receiving feedback on writing, creating a small science animation, and creating a story from an interesting research topic.

Professional Memberships

American Association for the Advancement of Science
Society for Social Studies of Science