

# Eitan Lees

SCIENTIFIC COMPUTING · DATA VISUALIZATION

1225 S. Gadsden St. Apt. 3, Tallahassee, FL, 32301, USA

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“The purpose of computing is insight, not numbers. – Hamming”

## Summary

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Hey! I am a former physicist turned programmer. My work developing computational models of physical systems, has taught me the value of well written code. In recent years I have become interested in data science, specifically data visualization. I am actively involved with the open source community, and love making contributions that improve peoples lives.

## Research

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### Nonlocal Modeling

Tallahassee, FL

WITH DR. SHANBHAG AND DR. GUNZBURGER

Aug. 2015 - Present

- Implemented novel methods of chemical network reduction in the context of aluminum corrosion.
- Publications: Lees, E., Rokkam, S., Shanbhag, S., & Gunzburger, M. (2017). The electroneutrality constraint in nonlocal models. *The Journal of chemical physics*, 147(12), 124102.

### Quantum Optics

Oxford, OH

WITH DR. CLEMENS

Aug. 2013 - July 2015

- Explored the phenomena of collective spontaneous emission
- Developed computational simulations of collections of Rydberg atoms.
- Presented results at DAMOP APS meeting.

### Organic Solar Cells

Boone, NC

WITH DR. CONRAD

Aug. 2009 - May 2013

- Developed a spin coating fabrication process for making organic solar cells
- Build an apparatus for probing and testing the electrical properties of solar cells made in lab
- Explored the thermal properties of organic and inorganic solar cells with specialized thermal AFM probe.

## Education

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### Florida State University

Tallahassee, FL

PH.D SCIENTIFIC COMPUTING

Aug. 2015 - Present

- Collaboration with NAVY grant on corrosion modeling
- Developed introductory course on scientific programming

### Miami University of Ohio

Oxford, OH

M.S. PHYSICS

Aug. 2013 - July 2015

- Theoretical and computational work on open quantum systems.
- TA for multiple lab sections as well as tutoring

### Appalachian State University

Boone, NC

B.S. APPLIED PHYSICS

Aug. 2009 - May 2013

- Developed and tested methods of organic solar cell fabrication.
- Hands on experience with microscopy techniques, specifically AFM and SEM

## Open Source

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### Altair

DECLARATIVE VISUALIZATION IN PYTHON

Feb. 2018 - Present

- Contributed many of the examples in the documentation
- Official member of the Altair organization.

### Vega/Vega-Lite

A GRAMMAR OF INTERACTIVE GRAPHICS

Dec. 2019 - Present

- Contributing member to the vega-datasets repository
- Active member of the community surrounding the Vega-Lite ecosystem