

# EVAN T. JELLY

OPTICAL SYSTEMS SCIENTIST

## PROFILE

- Motivated, knowledgeable, and focused optical scientist with over eight years of multi-disciplinary research and engineering experience.
- Highly capable in advanced biophotonics, image processing, and the design and construction of optical instrumentation.
- Passionate towards both the advancement of design in science and promoting optics and photonics in public policy.

## CONTACT



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[evanjelly.com](http://evanjelly.com)

## EDUCATION

### DOCTOR OF PHILOSOPHY

Biomedical Engineering  
Duke University - Durham, NC  
2017- 2022 (expected March 2022)

### MASTER OF SCIENCE

Biophotonics with Distinction  
Cardiff University - Cardiff, UK  
2010 - 2011

### BACHELOR OF SCIENCE

Physics  
The College of New Jersey - Ewing, NJ  
2007- 2009

## SKILLS

OCT	████████████████████
Optomechanics	████████████████████
Zemax	████████████████████
Solidworks	████████████████████
Python	████████████████████
Communication	████████████████████
Leadership	████████████████████
Problem Solving	████████████████████
Project Management	████████████████████

## SELECTED EXPERIENCE

January 2017 - Present

### Graduate Researcher

Duke University - Durham, NC

- Design and fabrication of medical optical equipment.
- Extensive hands on work with optics component mounting, interfaces, filter coatings, and adhesive bonding.
- Designed custom scanning equipment for optical coherence tomography requiring custom design of robust optical assemblies with high tolerancing.
- Translation of optical design from free-space optomechanics to compact fiber coupled design.
- Responsible for coordinating clinical studies with collaborators and procuring custom parts from critical suppliers.
- Highly competent with electronics and optical system testing, and associated data analysis and statistics.
- Daily use of CAD and optical modeling software (SOLIDWORKS/ ZEMAX respectively)
- Collaborated on the development of eight optical imaging and biosensing devices.

December 2021 - Present

### Research & Development Consultant

Lummedica, Inc. - Durham, NC

- Provide knowledge, engineering advice, and technical solutions on research projects involving optical design.

June 2021 - December 2021

### Research & Development Intern

MicroElastic Ultrasound Systems - Durham, NC

- Manufacturing of custom parts (including machining, 3D printing, injection molding, etc.)
- Translation of research design to commercial product and quality system review.

June 2013 - December 2014

### Research Assistant

National High Magnetic Field Laboratory | Tallahassee, FL

- Construction and maintenance of optical equipment.

January 2011 - October 2012

### Laboratory Technician

GE Healthcare Cell Technologies - Cardiff, UK

- Inventory of materials and production of culture media.