

EVAN T. JELLY

OPTICAL SYSTEMS SCIENTIST

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🌐 evanjelly.com

📍 Durham, NC

SUMMARY

- Highly self-motivated, knowledgeable, and focused optical scientist with years of multi-disciplinary research and product development experience.
- Skilled in medical device development, advanced biophotonics, image processing, and the design, construction, testing, and manufacturing of optical instrumentation.
- Passionate towards both the advancement of design in science and promoting optics and photonics in public policy.

RECENT EXPERIENCE

Lumedita Inc.

📅 06/2021 - Ongoing 📍 Durham, NC

Lumedita Inc develops affordable, easy to use, biomedical and scientific imaging technologies that improve healthcare for patients and providers worldwide.

Research and Development Manager

📅 04/2022 - Ongoing

- Responsible for managing and mentoring a small team of multidisciplinary research staff.
- Developing key relationships with external research partners, conducting market research, and developing next-generation OCT technologies across three US SBIR/STTR grant-funded projects.
- Lead designer on 2 products successfully commercialized for industrial use.
- Created key validation and integrated testing procedures across the company product line, decreasing company RMA's by 60% and enabling upcoming FDA 510k submission.

Research and Development Consultant

📅 06/2021 - 04/2022

- Provided knowledge, engineering advice, and technical solutions on research projects involving optical coherence tomography.

Duke University

📅 01/2017 - Ongoing 📍 Durham, NC

The BIOS lab at Duke University develops new applications of interferometry for detecting light to develop powerful new tools for understanding our biology.

Research Scientist

📅 04/2022 - Ongoing

- Support lab research efforts and mentor students with knowledge in developing low-coherence and interferometric technologies.
- Lecturer: Optics module for Duke BME 848L: Radiology in Practice.

Graduate Research Associate

📅 08/2018 - 04/2022

- Conducted independent research in optical coherence tomography.
- Authored 12 peer reviewed articles as well as 12 conference proceedings in support of the development of 8 novel medical devices, 3 patents, and an upcoming 510k medical device submission.

Research Associate

📅 01/2017 - 08/2018

- Active in custom NIR-I and NIR-II spectrophotometer design and development including high bandwidth, high resolution, and 2D imaging spectrometers using 3D printed materials.

EDUCATION

Ph.D. Biomedical Engineering

Duke University

📅 08/2018 - 03/2022 📍 Durham, NC

M.S. Biophotonics

Cardiff University

📅 08/2011 - 11/2012 📍 Cardiff, UK

B.S. Physics

The College of New Jersey

📅 09/2007 - 12/2009 📍 Ewing, NJ

INDUSTRY EXPERTISE

Optical Design



Imaging Science



Systems Engineering



Product Development



SKILLS

Optical Coherence Tomography Imaging

Medical Devices Optomechanics

Signal and Image Processing Lens Design

Tolerance Analysis Project Management

Validation and Testing Optical Scattering

Fiber Optics Communication

Leadership Problem Solving

PROGRAMMING

Zemax Solidworks Matlab Python

LABView Mathematica Adobe Ps Ai Id