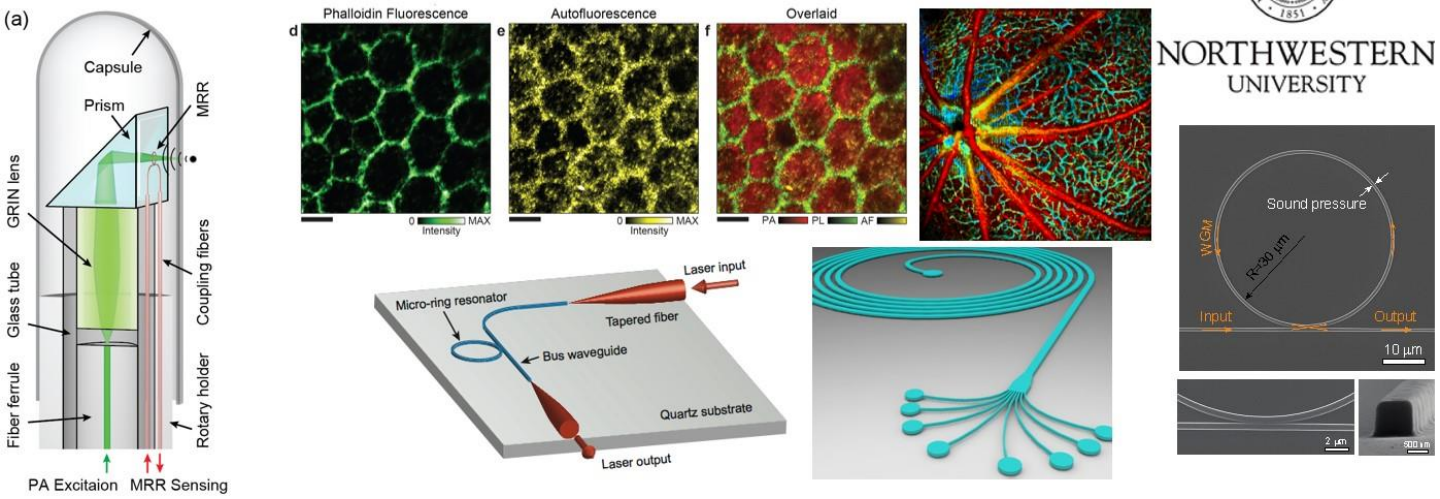
# Northwestern Functional Optical Imaging Laboratory




NORTHWESTERN UNIVERSITY

Functional Optical Imaging lab (FOIL, http://foil.northwestern.edu) in the Department of Biomedical Engineering at Northwestern University develops optical imaging and sensing technologies for biomedical applications, including ophthalmology, vision science, single-molecular analysis, and genomics.

In this project, you will collaborate with other researchers to implement a new embedded image processing system for visible-light optical coherence tomography (vis-OCT).

Preferred abilities and dispositions:

- A high degree of problem-solving skills and self-management
- Experience in embedded systems such as Arduino, Nvidia Jetson platforms
- Experience with coding in C/C++, CUDA, Python
- Willingness to learn new technology, software languages

The undergraduate student research assistants are expected to work around 10 hours per week in the lab. The compensation rate will be $15/hr or higher, depending on your programming skills.

If interested, please contact Prof. Hao. F. Zhang (hfzhang @ northwestern.edu).