

# **Bioengineering Colloquium**

**Highlight Seminar**

**Thursday, October 24, 2024**

**4:00pm - 5:00 pm**

**Location: Louis A Simpson A71**



**Christopher Fang-Yen, Ph.D.**  
Professor of Biomedical Engineering  
Ohio State University

## **Optical Dissection of Brain and Behavior in a Worm**

A fundamental goal of neuroscience is to understand how neural circuits create behavior. The model roundworm *C. elegans*, with its compact and well-mapped nervous system, genetic manipulability, and optical transparency, is an excellent candidate for developing a detailed mechanistic understanding of a nervous system. I will describe my lab's experimental and computational efforts to decipher the neural circuits underlying its coordinated locomotor behaviors. I will also discuss our development of robotic and microfabricated tools for automation of *C. elegans* research.

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<https://bioengineering.princeton.edu/events>

Light refreshments available 15 minutes prior to start of seminar