FACULTY MENTOR
Lo, Yuhwa

PROJECT TITLE
Viral RNA detection for the virus in the environments

PROJECT DESCRIPTION
We will use an air-jet enrichment method on lateral flow assay and isothermal amplification technique to detect viral RNAs in the environment.

This project will be in person.

INTERNS NEEDED
2 Students

PREREQUISITES
biophysics, image processing, machine learning (recommended)
FACULTY MENTOR
Lo, Yuhwa

PROJECT TITLE
Detection of single photons for LIDAR and imaging

PROJECT DESCRIPTION
Characterize and model solid-state single-photon detectors. Develop the PSPICE model for the device and apply it to LIDAR and sensing and quantum systems.

This project will be in person.

INTERNS NEEDED
2 students

PREREQUISITES
solid-state electronics (230A required), analog circuits (required), field-effect and bipolar transistors (230B recommended), device fabrication (recommended)