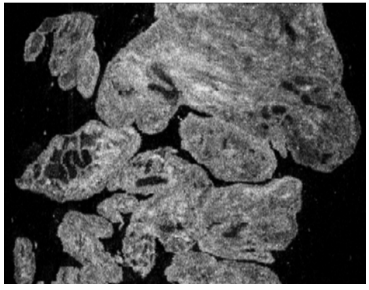
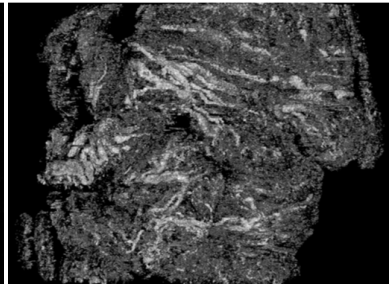
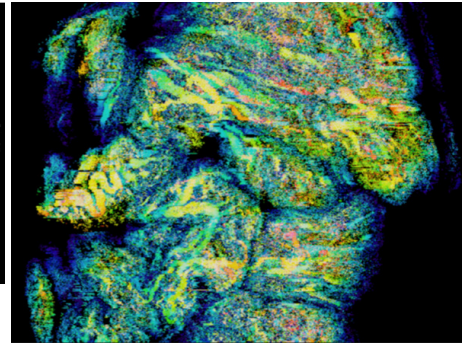
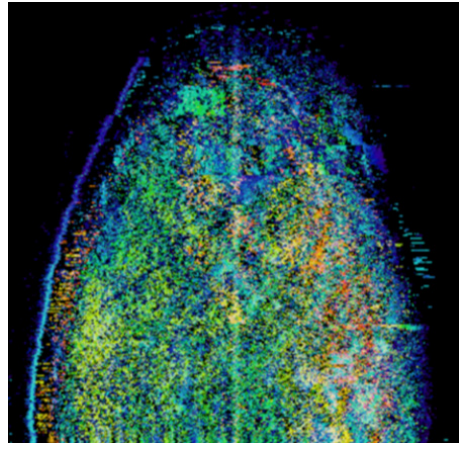


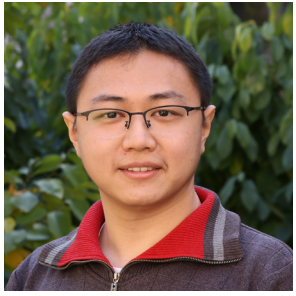






NOVEMBER 2023

S	M	Tu	W	Th	F	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2



Hongbo Luo

PhD candidate in electrical engineering

These images depict 3D Optical coherence tomography (OCT) scans of fallopian tube tissues and the inversed intensity en face maps derived from normal and malignant fallopian tube fimbriated end scans. Different color marks different imaging depth. Morphological changes observed from these images suggest the feasibility of using inverse intensity map to assist fallopian tube malignancy detection.

Research in the Optical and Ultrasound Imaging Laboratory focuses on the understanding of optical properties of human ovarian and colorectal cancers. Luo has developed an optical coherence tomography catheter to help with ovarian and colorectal malignancy evaluation (featured on the inside cover of the *Journal of Biophotonics* in June 2022).

This work is in collaboration with the Departments of Pathology & Immunology, Obstetrics & Gynecology and Radiology at the School of Medicine. The project is funded by National Cancer Institute (CA237664).

Hongbo Luo conducts research in Professor Quing Zhu's lab.

» **opticalultrasoundimaging.wustl.edu**