My lab focuses on developing novel methods to diagnose and manage patients at risk for primary angle closure glaucoma (PACG), a common cause of permanent vision loss worldwide. My goal is to develop clinical methods based on optical coherence tomography (OCT) imaging of the eye by studying structural changes in eyes at risk for PACG. I apply biostastistical methods including machine learning to study the imaging data and quantitative measurements derived from the images. I also design novel devices to study the biomechanical properties of intraocular structures that contribute to the development of PACG.

Skills: biostatistics (required), computer programming (Matlab preferred; Python, R, SAS, SPSS acceptable), machine learning, bioengineering - device development and troubleshooting, image analysis and/or processing

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