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Undergraduate Math and Physics Seminar

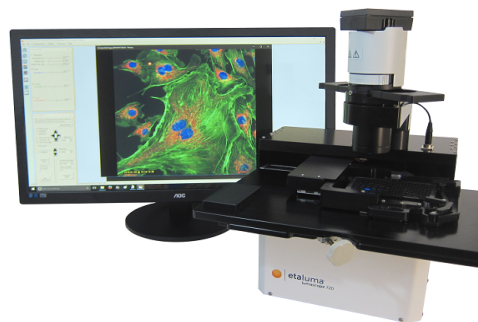
What Should a Digital Microscope do?

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Abstract:

Microscopes were the earliest apparatus that revealed our world on a much smaller scale. Modern microscopes hardly resemble their ancestors, with diverse specializations and capabilities. Nine years ago, I co-founded a company that radically changed fluorescence microscopes. Our "Lumascope" is much more reliable, smaller, and cheaper, by incorporating a CMOS sensor (like a webcam) and high efficiency LEDs as replacement for eyepieces and high-power lamps. However, we've taken little advantage of potential abilities for a digital microscope to become "smarter". By employing feedback, feedforward, automated control, and learning, what novel microscope behaviors and capabilities might be useful and how could they be implemented?



When: Monday, February 26, 2018, 4:30-5:20 pm

Where: CSUCI, Del Norte Hall 1530

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