
Subject: An Introduction

Posted by [James\[2\]](#) on Tue, 17 Nov 2009 10:22:16 GMT

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Hi Everyone,

I just started following this group so I thought I would introduce myself. I am a student at The Evergreen State College helping with a project to build an imaging cryo-microtome. Basically, it's an instrument that cuts very thin slices off a biological sample and takes a picture after each slice. If we fill the blood vessels with fluorescent polymer, and use the appropriate illumination wavelength and lens filter, we get images with white blood vessels on a black background. We're using IDL to perform 2D pre-processing on the images, combine them into a voxel file, and then vectorize the voxel stack to get meaningful data like diameter, length, and branch angle.

Anyway, I don't have any questions at the moment, but I probably will soon, and hopefully I can provide some answers as well. My current pursuit is using Gradient Vector Flow snakes to do feature recognition and filter out some extraneous glow that we get in the images. I have just been using IDL for a few months but I am really enjoying it, so I'm glad to have the chance to talk with other IDL programmers.

Cheers,
James Preiss
