**Motivation**

- Schistosomiasis is a parasitic disease caused by waterborne snails
- The snails infect the body and lay eggs in the bloodstream that manifest in the urine
- Urine filters are used to test if the patient is infected
- Counting the eggs with a microscope is time consuming in the case of severe outbreaks

**Related Work**


**Image Processing Pipeline**

**Experimental Results**

For this example: 33 connected components
- True Positive: 20
- False Positive: 13
- False Negative: 4

**Future Directions:**

- Choose cross-correlation kernel based on detected filter size
- Use more modern CV methods from simple Cascade classifiers to CNNs.
- Try segmentation in vanilla brightfield without Rheinberg illumination.