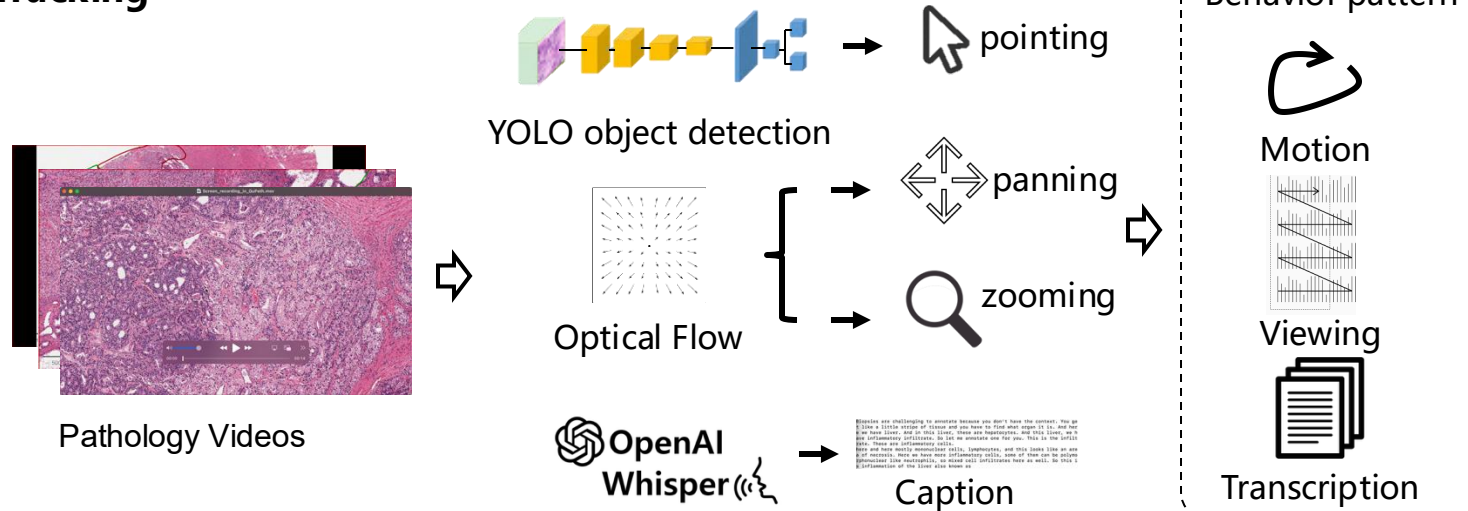
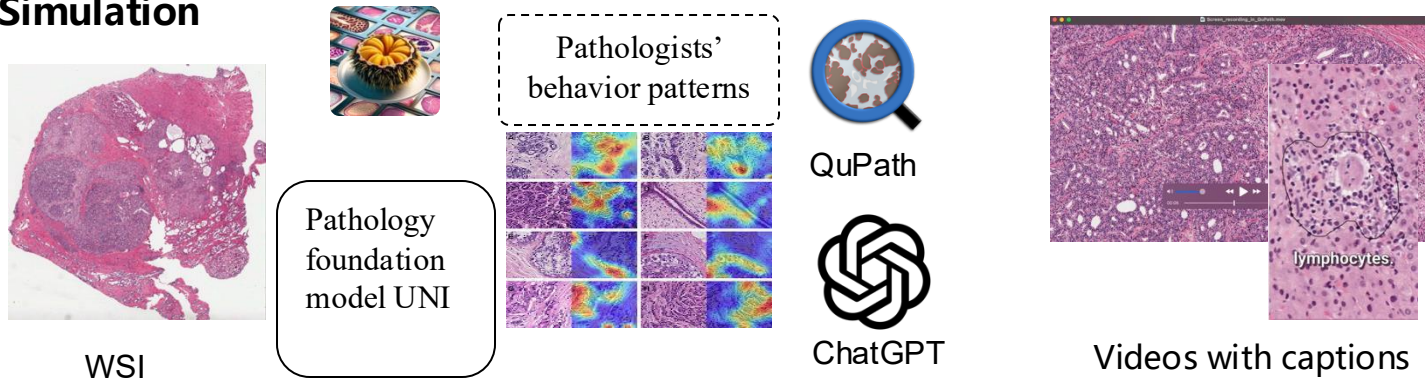
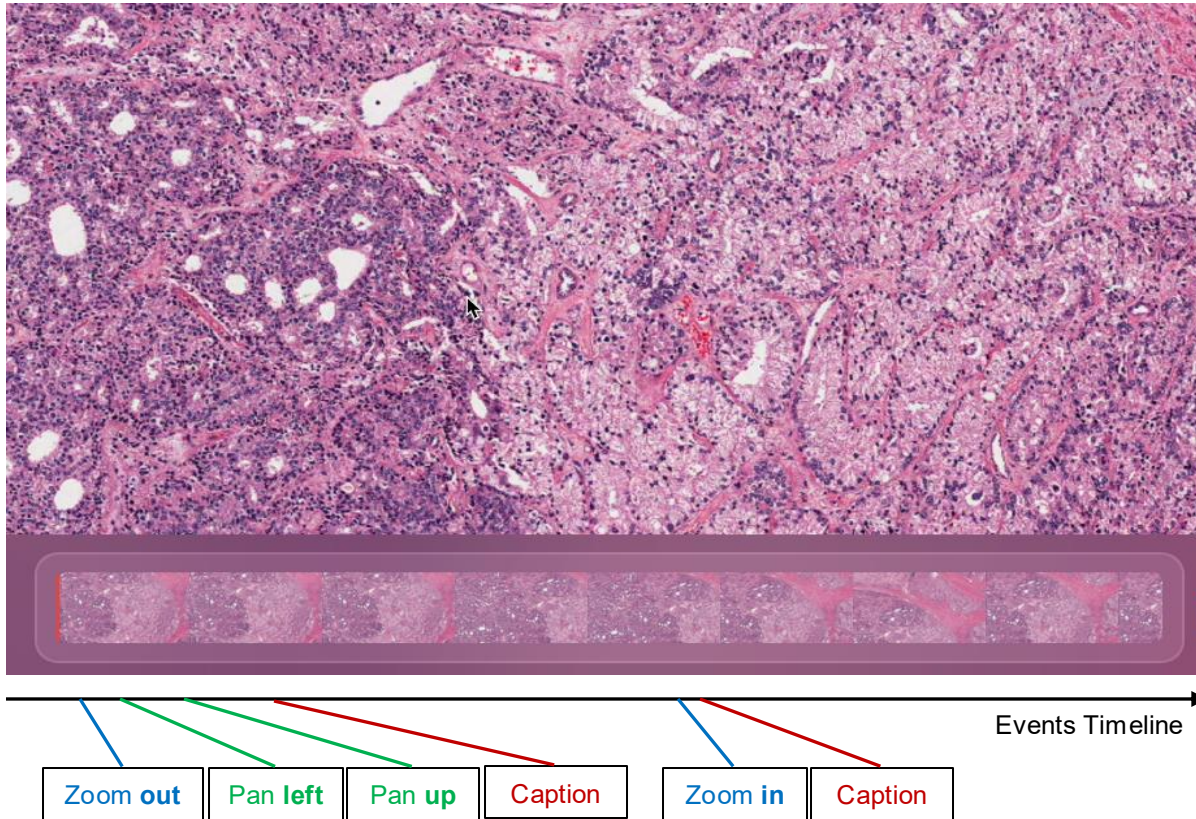


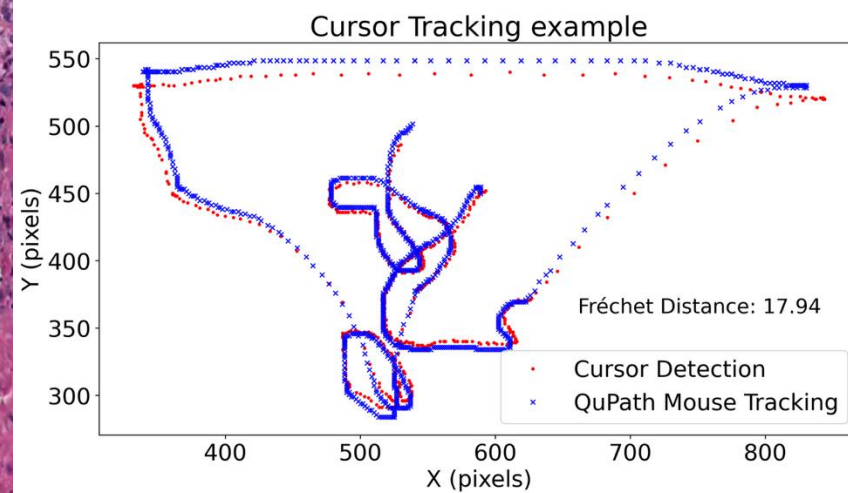
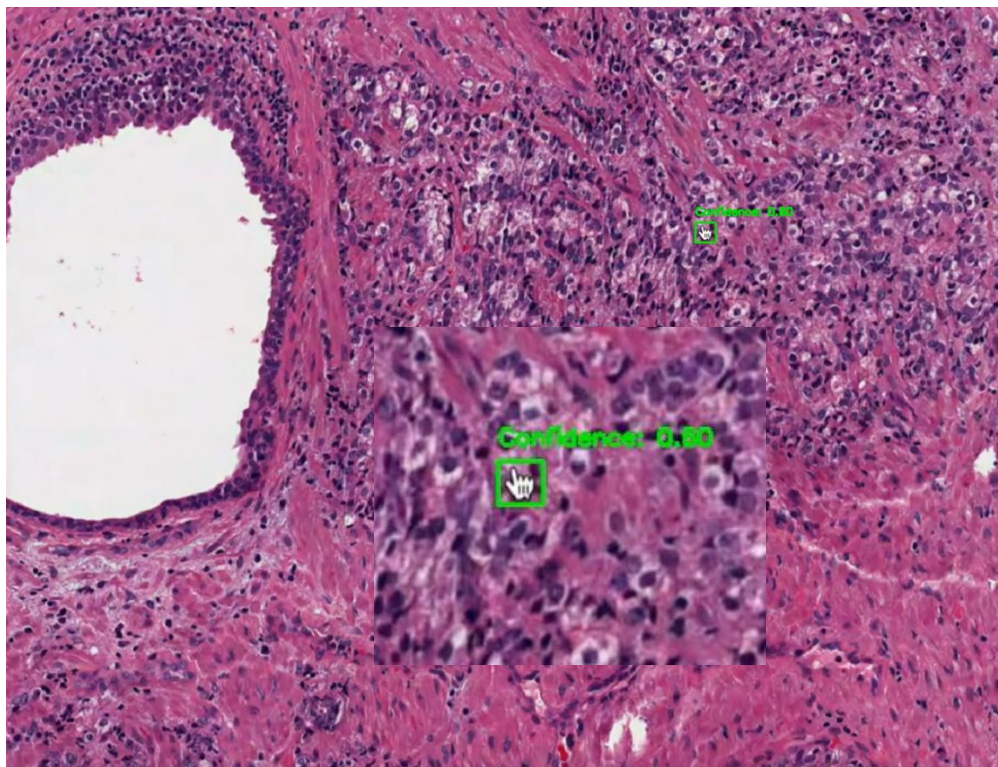
## Tracking



## Simulation

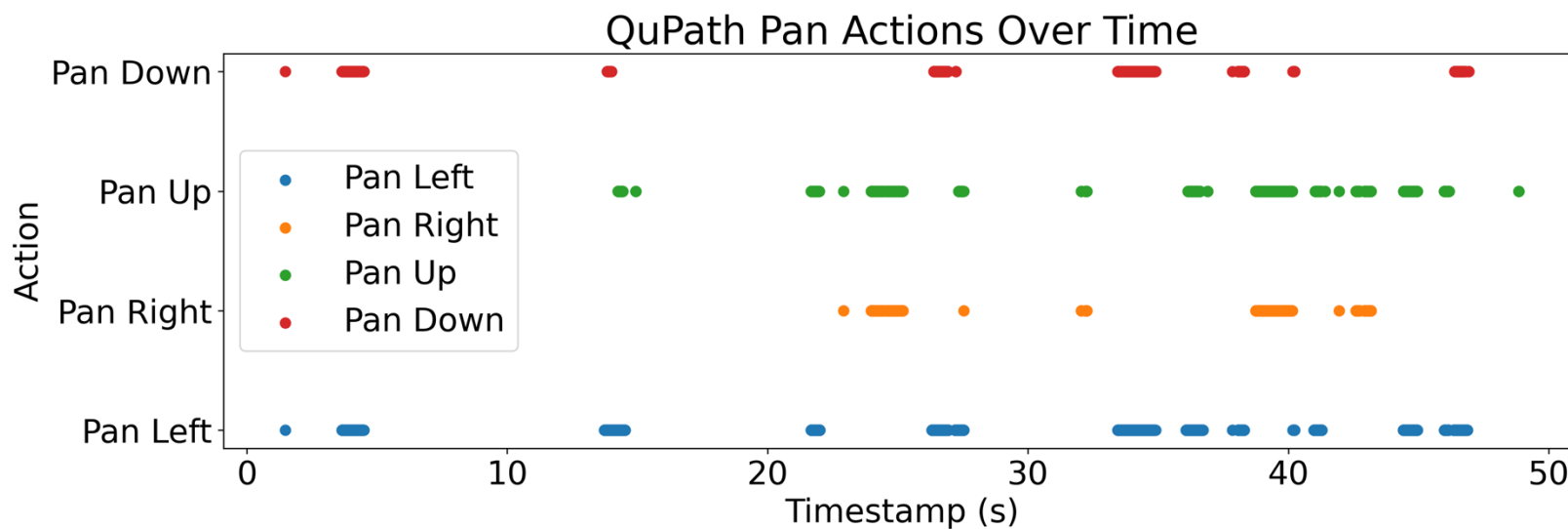
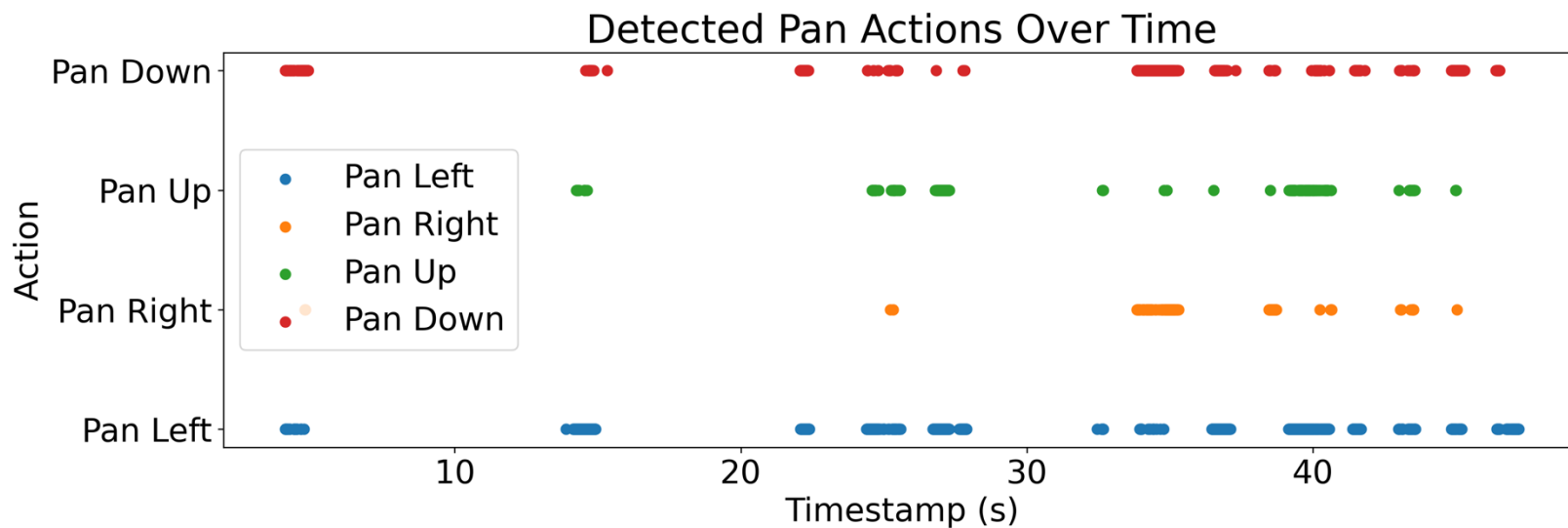


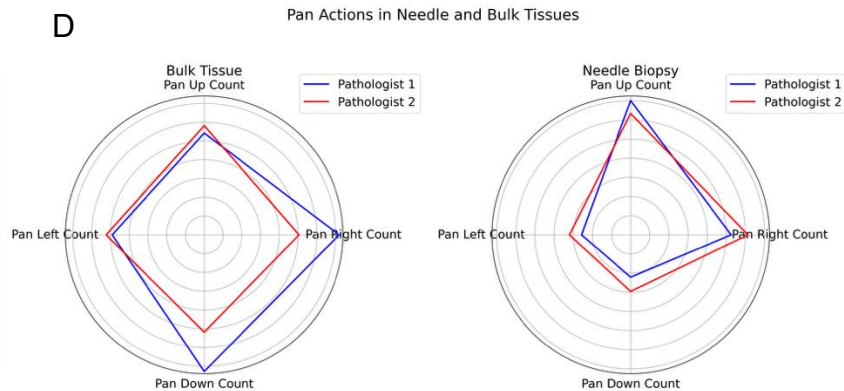
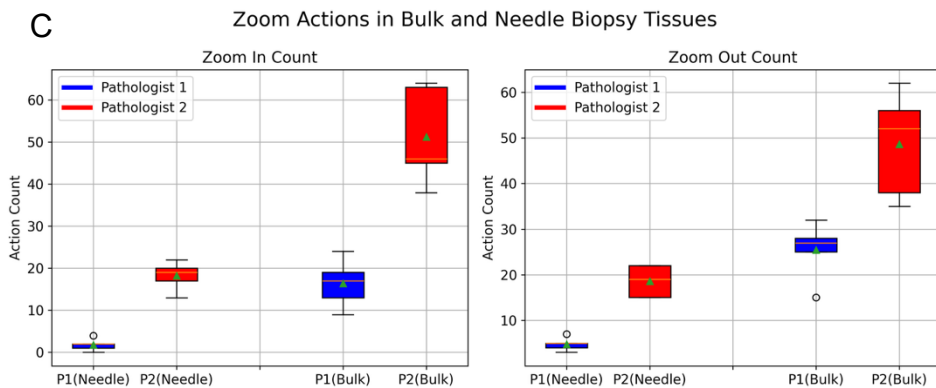
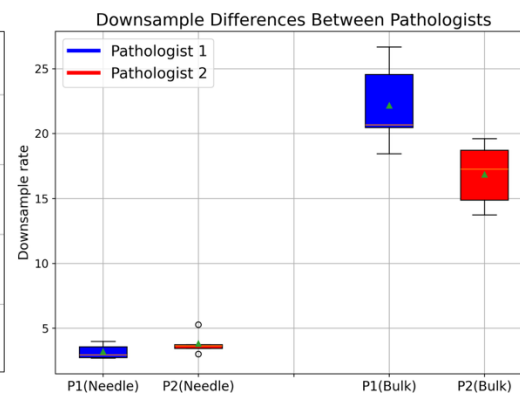
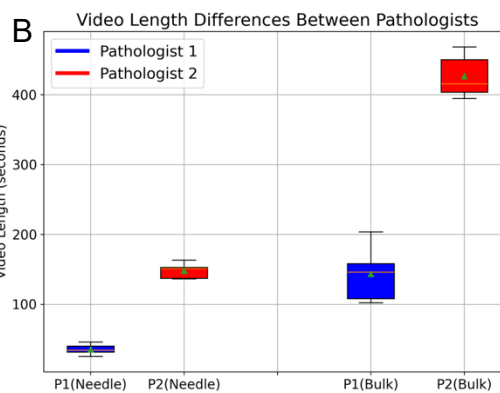
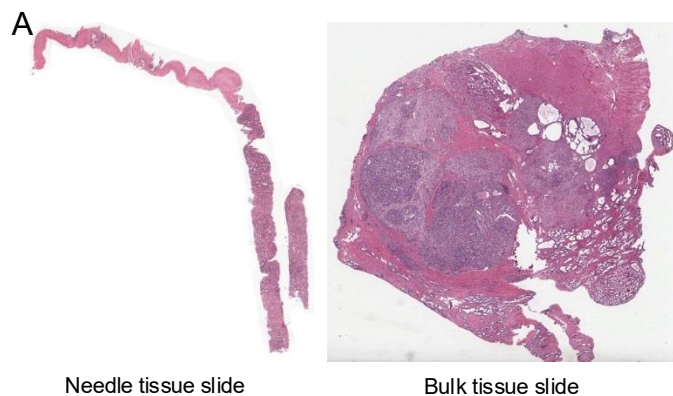


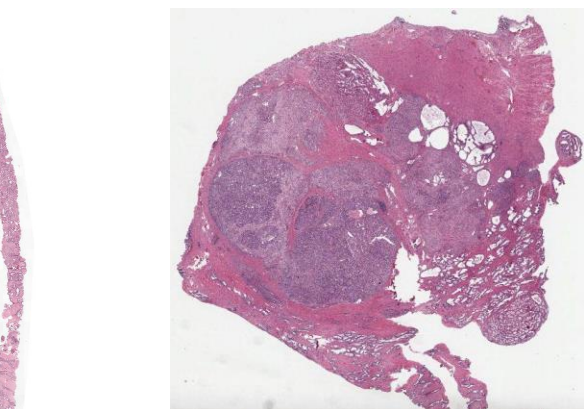






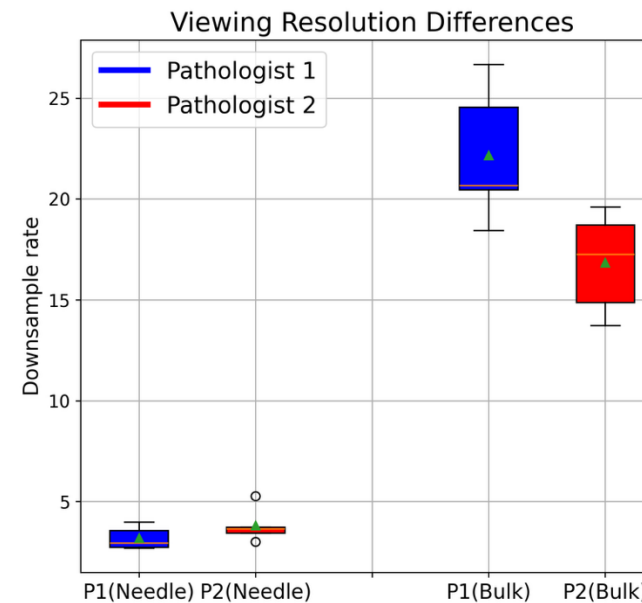
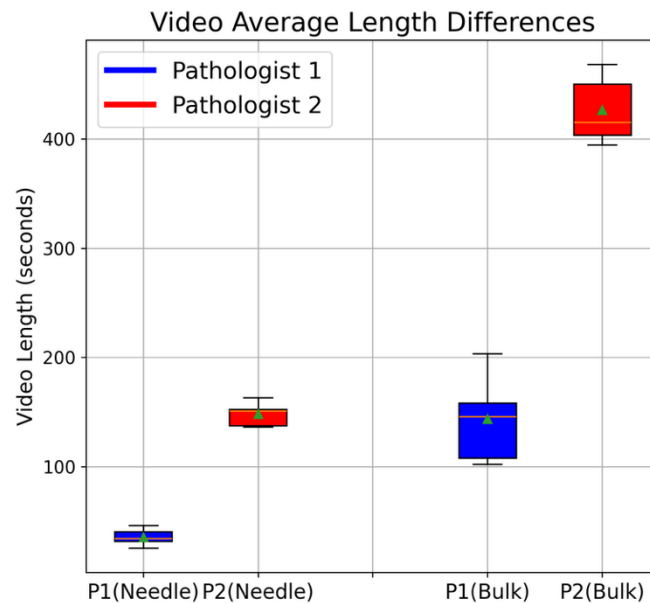




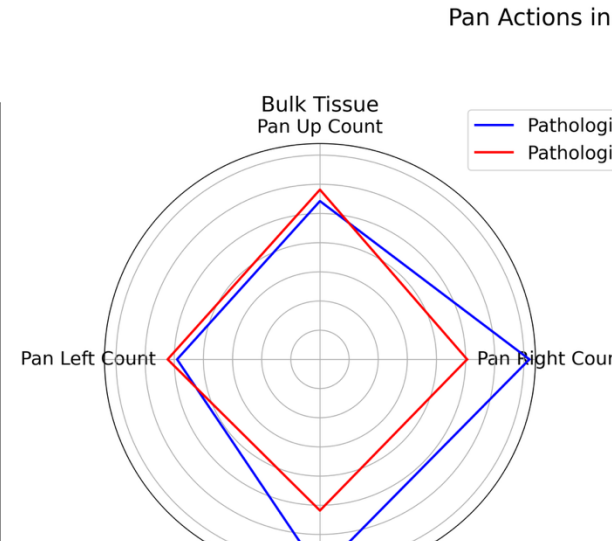
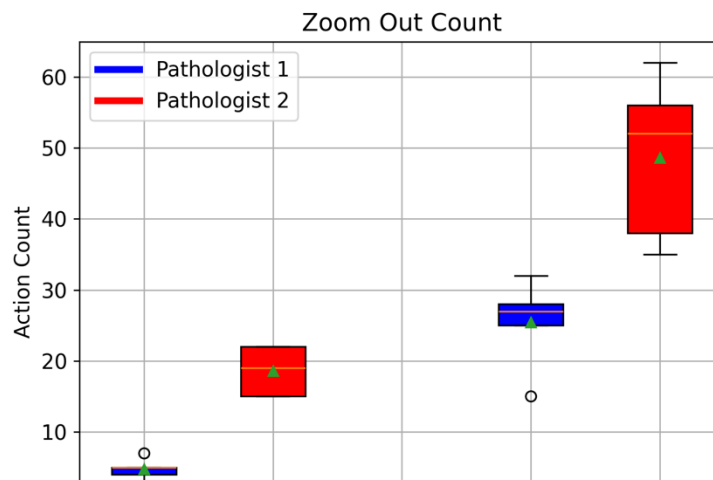
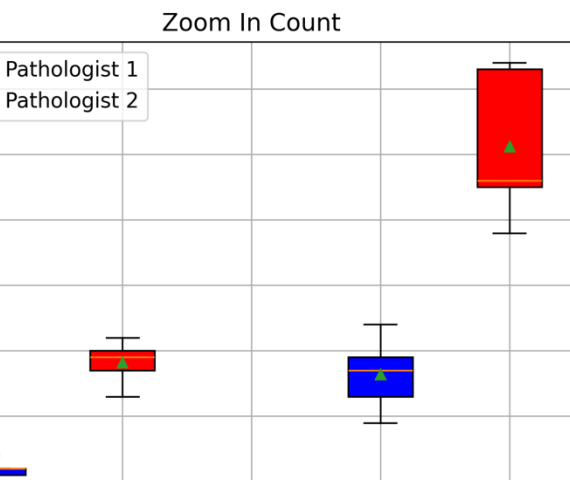


ue slide

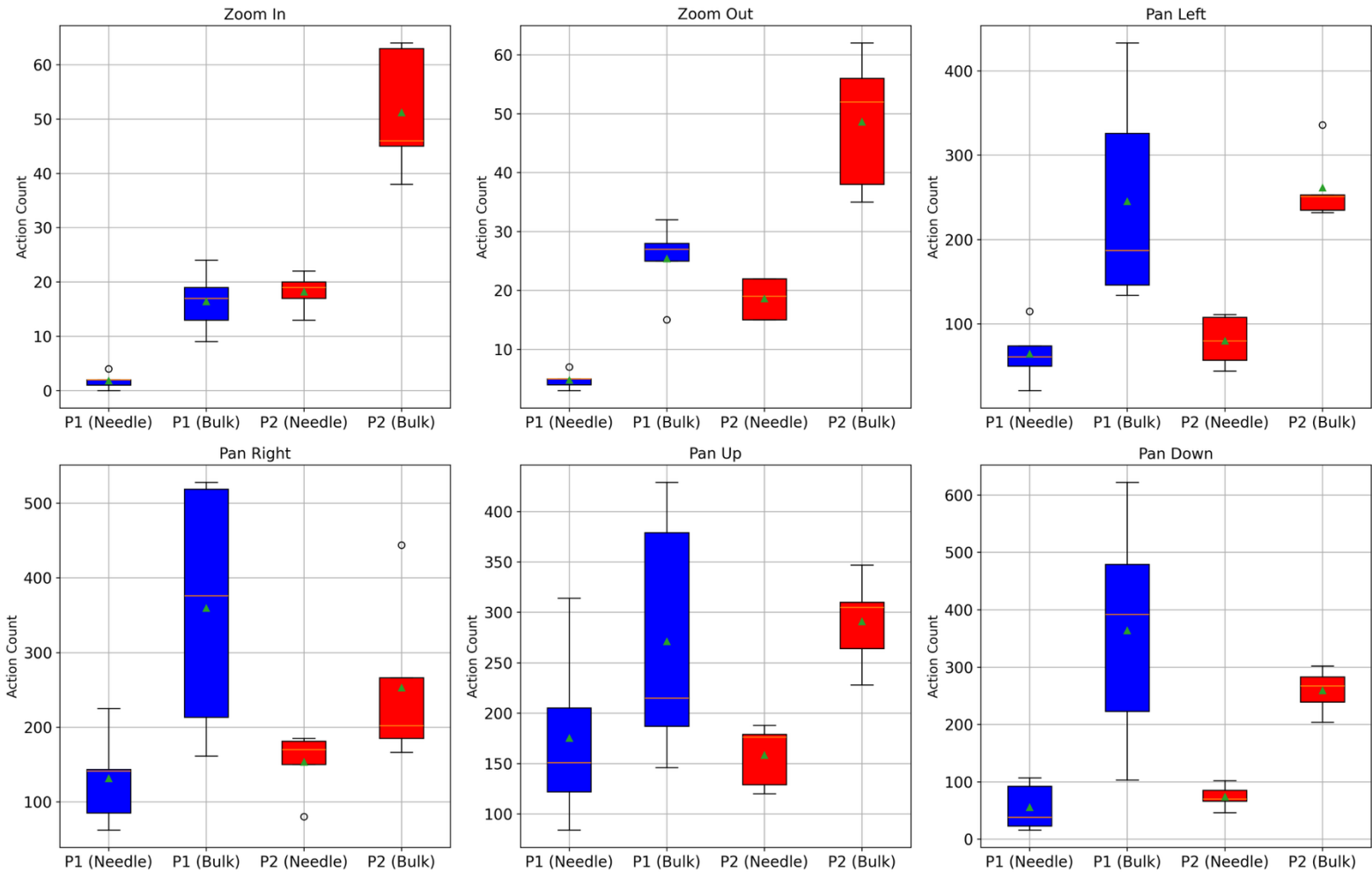
Bulk tissue slide



## Zoom Actions in Bulk and Needle Biopsy Tissues



## Comparison of Pathologists' Actions in Bulk and Needle Biopsy Tissue





- Ghezloo, F., Chang, O.H., Knezevich, S.R. *et al.* Robust ROI Detection in Whole Slide Images Guided by Pathologists' Viewing Patterns. *J Digit Imaging. Inform. med.* **38**, 439–454 (2025).  
<https://doi.org/10.1007/s10278-024-01202-x>
  - [Code: https://github.com/fGhezloo/ROI-Localization-melanoma/tree/main](https://github.com/fGhezloo/ROI-Localization-melanoma/tree/main)

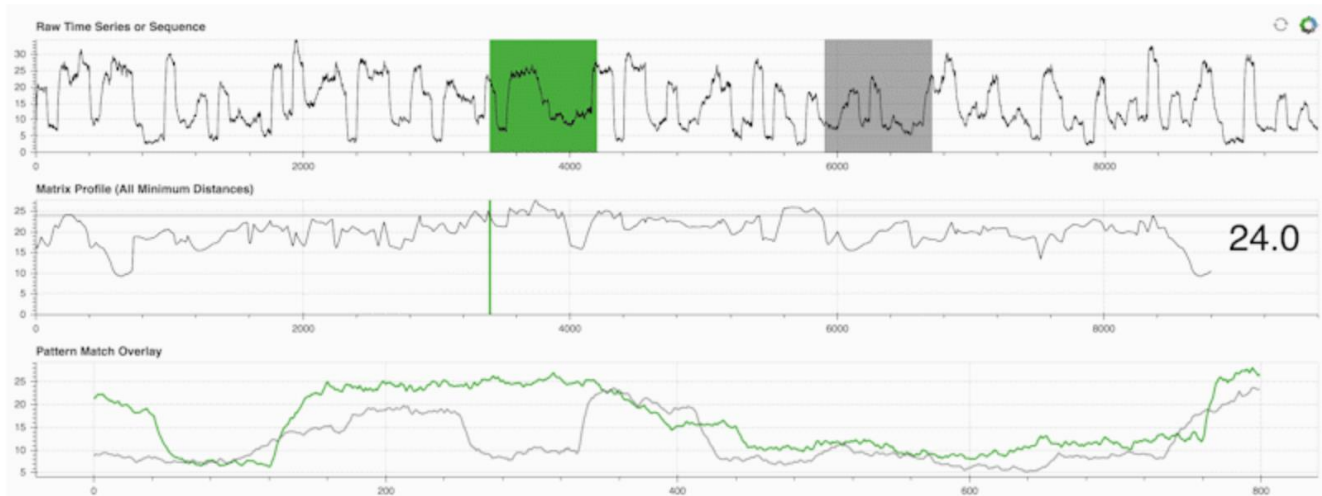
The tool developed by the University of Washington is originally from HD view SL by Microsoft. But it has been renamed to SeaDragon.

<https://github.com/openseadragon/openseadragon?tab=readme-ov-file>



## STUMPY

STUMPY is a powerful and scalable Python library that efficiently computes something called the [matrix profile](#), which is just an academic way of saying "for every (green) subsequence within your time series, automatically identify its corresponding nearest-neighbor (grey)":



- **Predicting the Visual Attention of Pathologists Evaluating Whole Slide Images of Cance**
- Conference paper
- [Medical Optical Imaging and Virtual Microscopy Image Analysis](#)