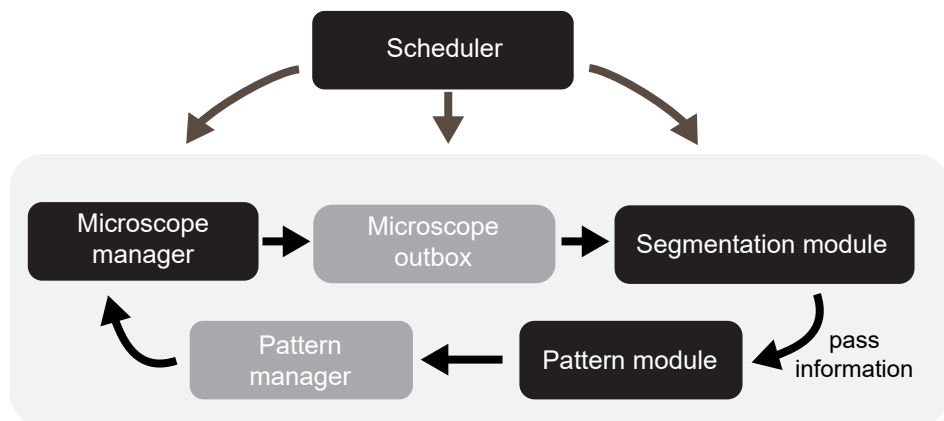


## A PyCLM: closed-loop microscopy for image-guided stimulation



## B Running a PyCLM experiment

Define XYZ position (multipoints.xml)

```
<Point1>
  <strName value="feedback.1"/>
  <dXPosition value="4533"/>
  <dYPosition value="2742"/>
  <dZPosition value="5416"/>
  <dPFSOffset value="1004"/>
</Point1>
```

Define a schedule (scheduler.toml)

```
[timing]

steps = 200
interval_seconds = 30
setup_time_seconds = 3
time_between_positions = 3
```

Define experiments (feedback.toml)

```
[imaging]
every_t = 1
exposure = 200

[stimulation]
every_t = 1
exposure = 500

[segmentation]
method = "cellpose"
method = "cpsam"

[pattern]
method = "centered image"
tif_path = "logo.tif"
```

## C Example application: controlling single-cell intensity

