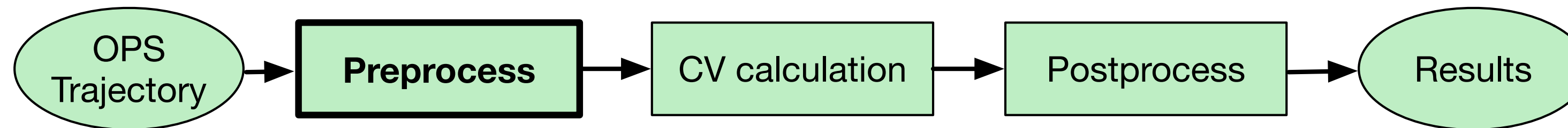


Collective Variable API (2.0)

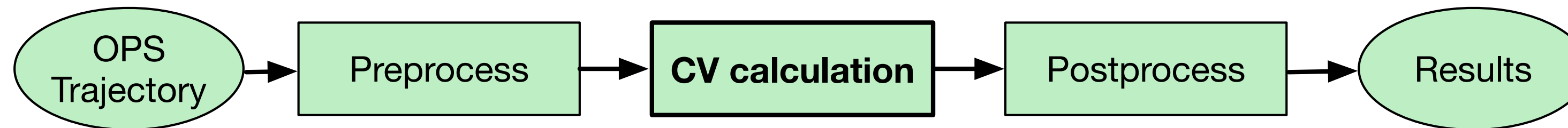


```
class MDTrajProcessor(Processor):
    def __init__(self, topology):
        """
        Parameters
        -----
        topology : :class:`.MDTrajTopology`
            an OPS MDTraj topology wrapper
        """
        super(MDTrajProcessor, self).__init__(name='mdtraj',
                                              stage='list-pre',
                                              func=self)

        self.topology = topology

    def __call__(self, values):
        top = self.topology.mdtraj
        return paths.Trajectory(values).to_mdtraj(topology=top)
```

Collective Variable API (2.0)



```
class MDTrajFunctionCV(CoordinateFunctionCV):
    def __init__(self, func, topology, func_config=None, period_min=None,
                  period_max=None, **kwargs):
        if func_config is None:
            func_config = StorableFunctionConfig([
                MDTrajProcessor(topology), wrap_numpy, scalarize_singletons,
            ])
        super(MDTrajFunctionCV, self).__init__(
            func,
            func_config=func_config,
            period_min=period_min,
            period_max=period_max,
            **kwargs
        )
        self.topology = topology
        self.mdtraj_topology = topology.mdtraj

    def _eval_preprocessed_list(self, preprocessed):
        return self.func(preprocessed, **self.kwargs)

    def to_dict(self):
        dct = super().to_dict()
        dct['topology'] = self.topology
        return dct
```