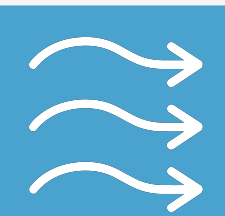
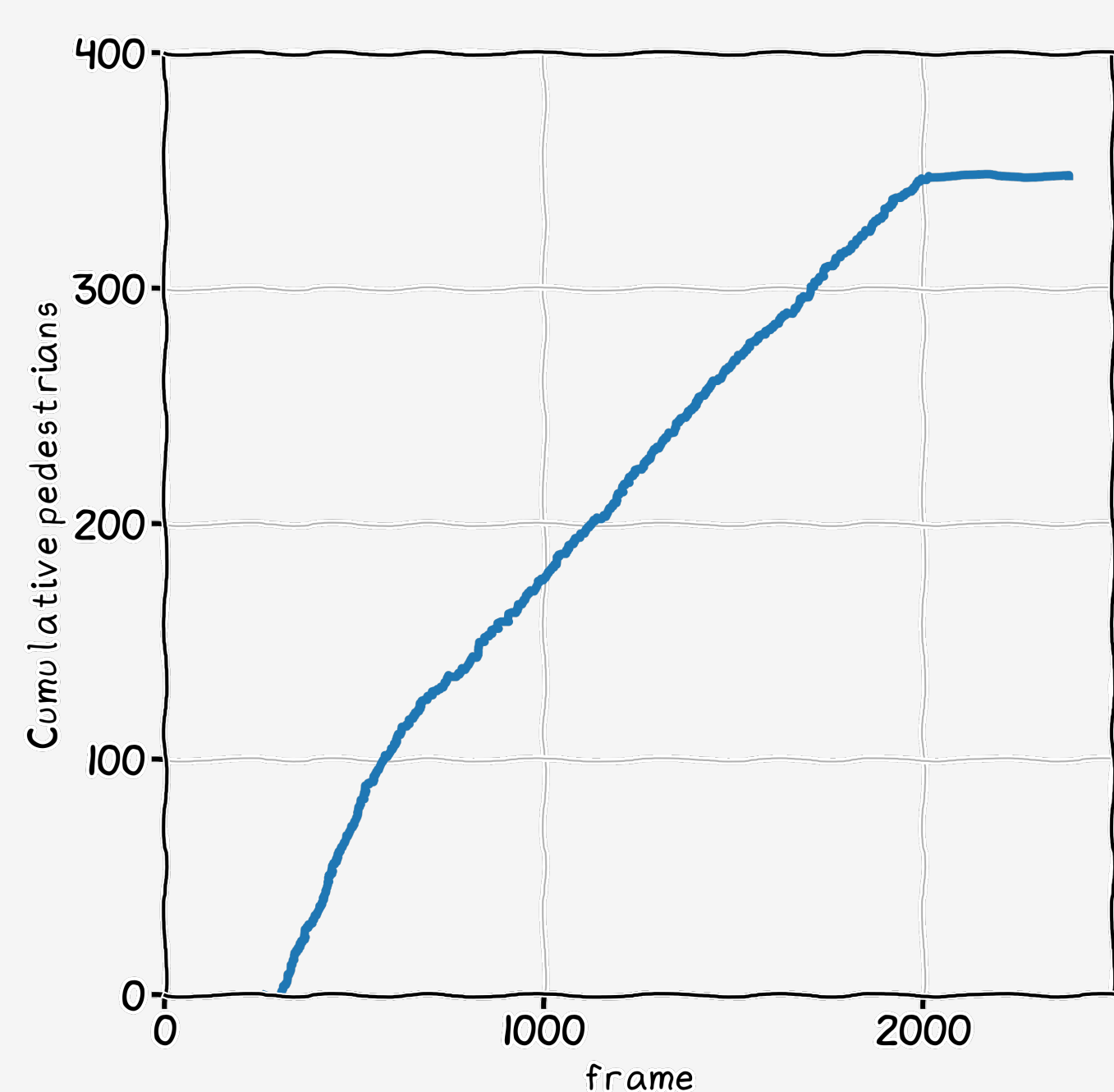
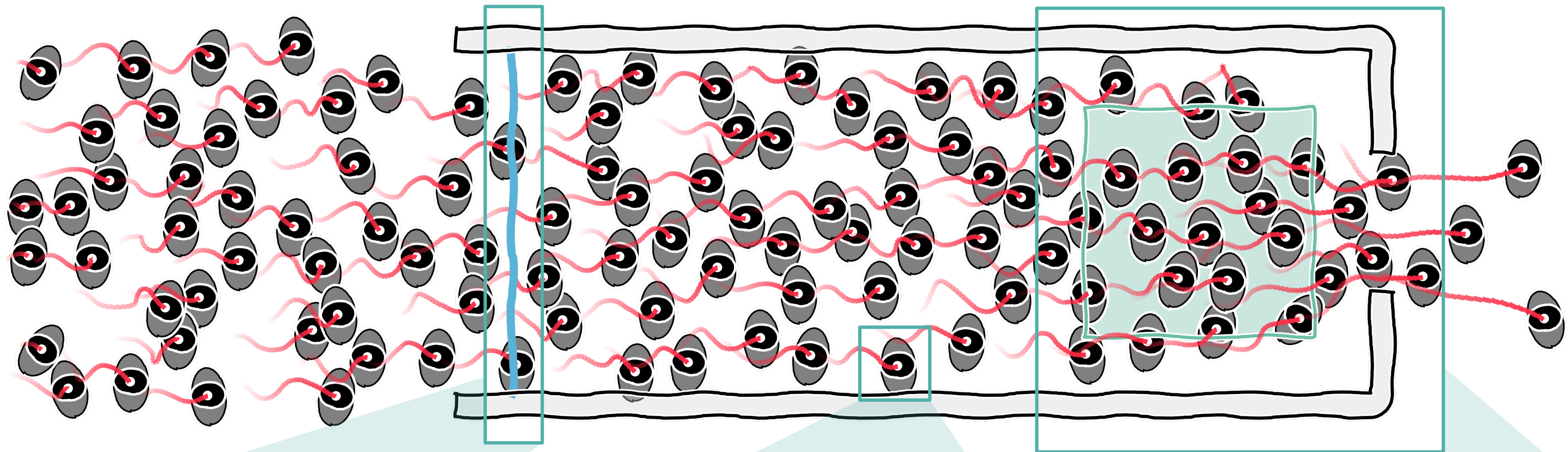


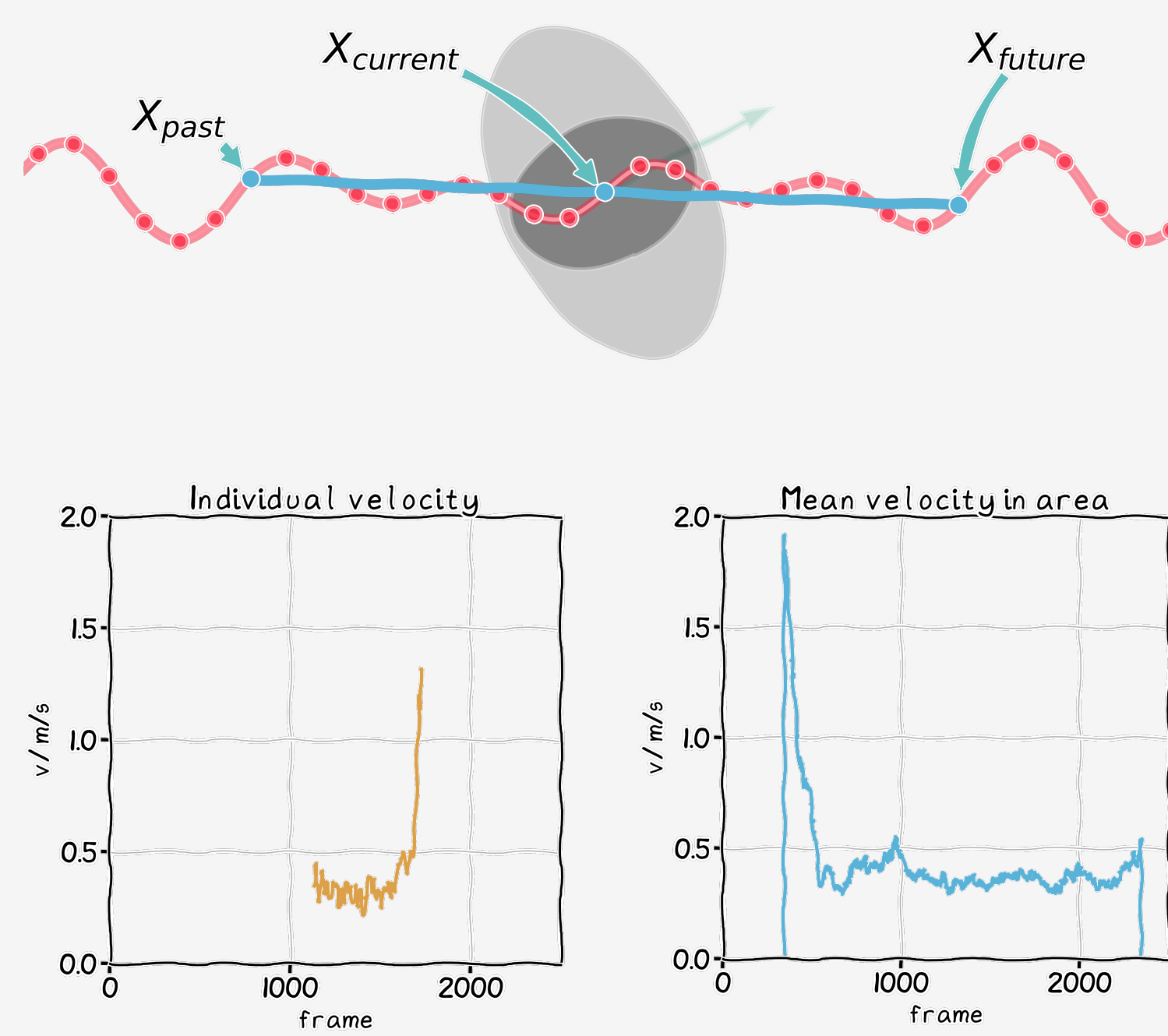
A Python Toolbox for Pedestrian Dynamics Analysis

The successor of JPSreport

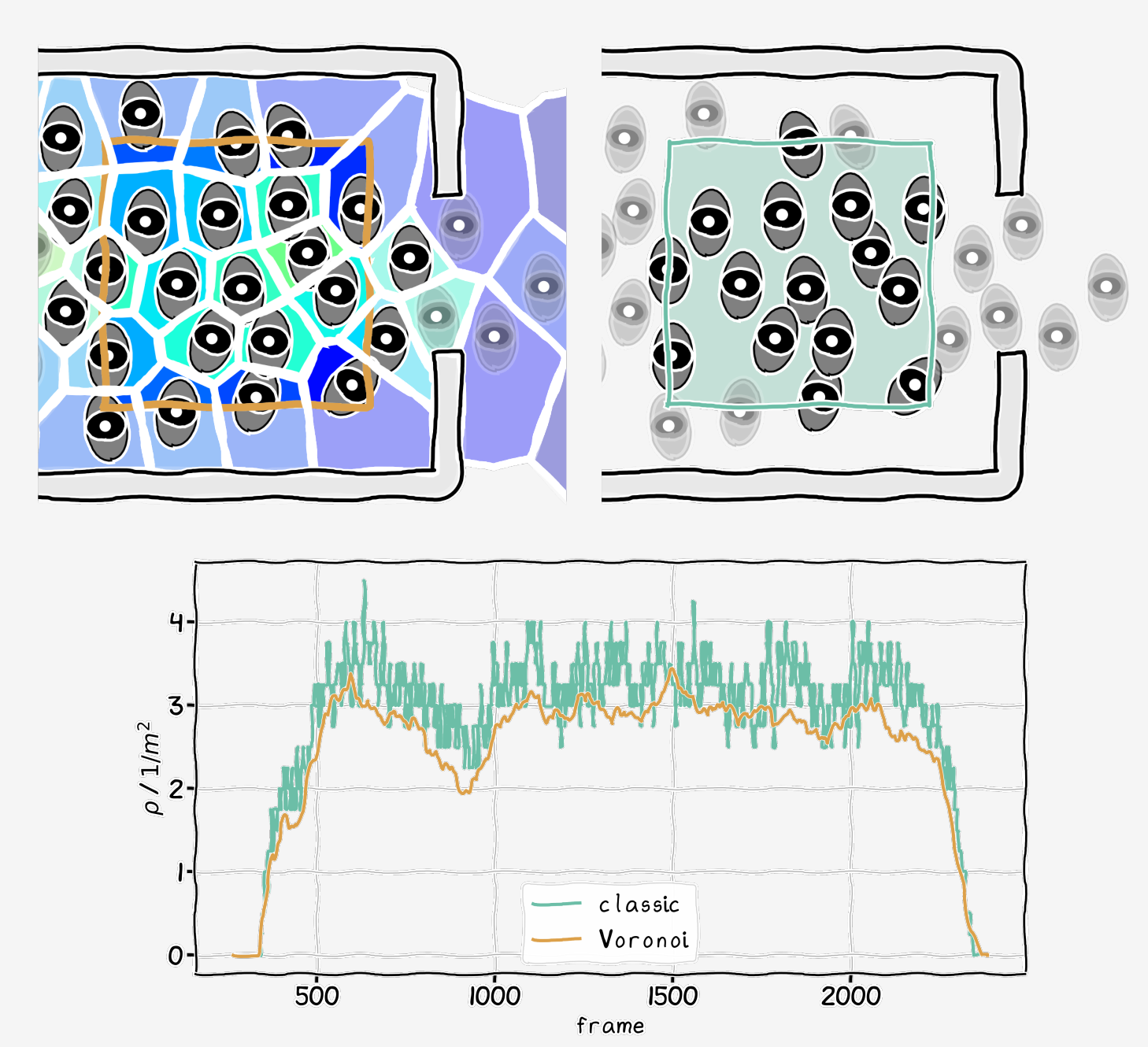
Tobias Schrödter, Juliane Adrian, Maik Boltes and Mohcine Chraïbi



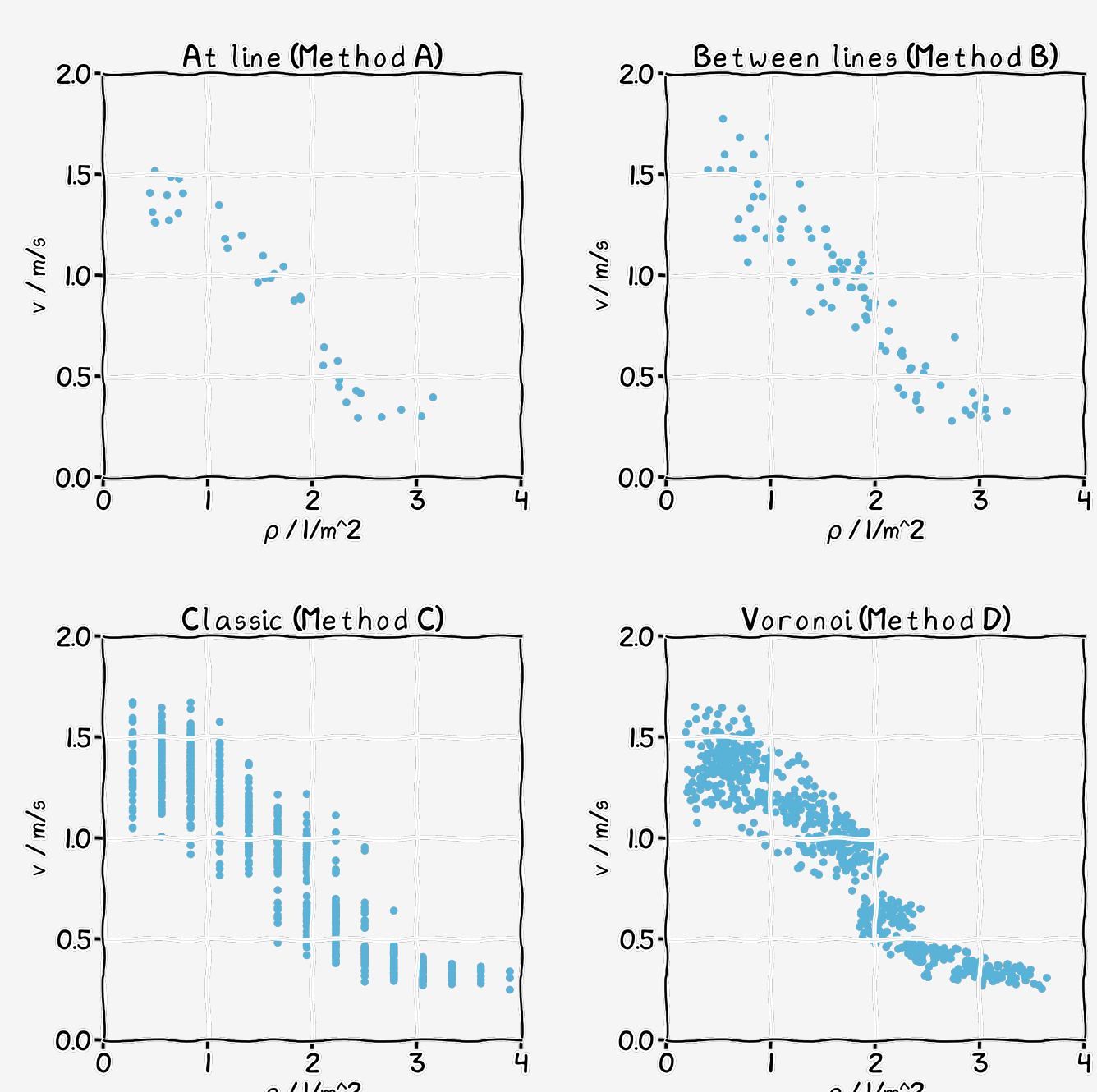
Flow



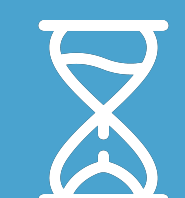
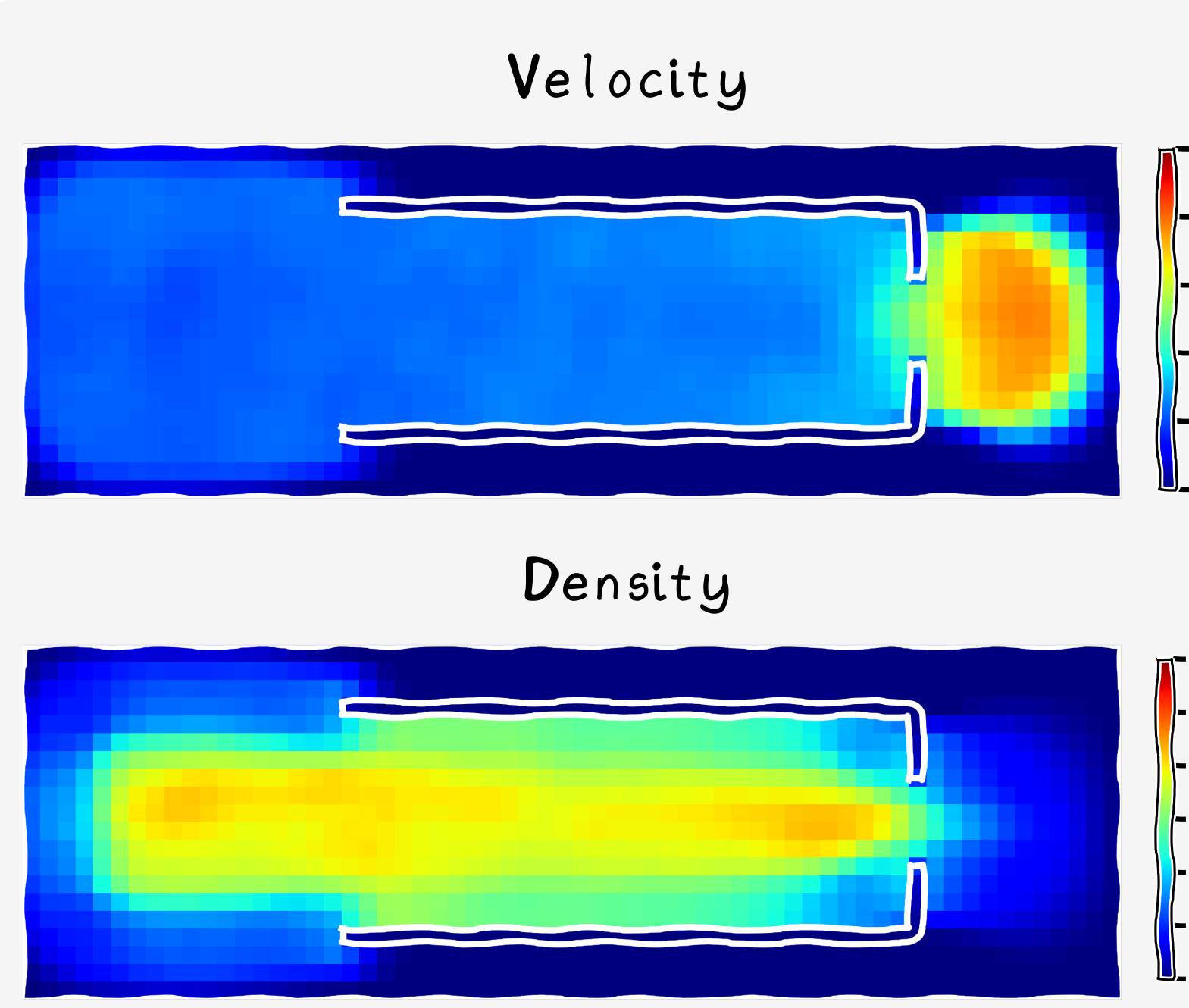
Velocity



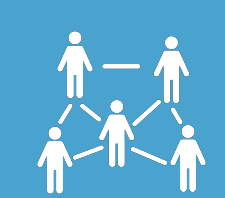
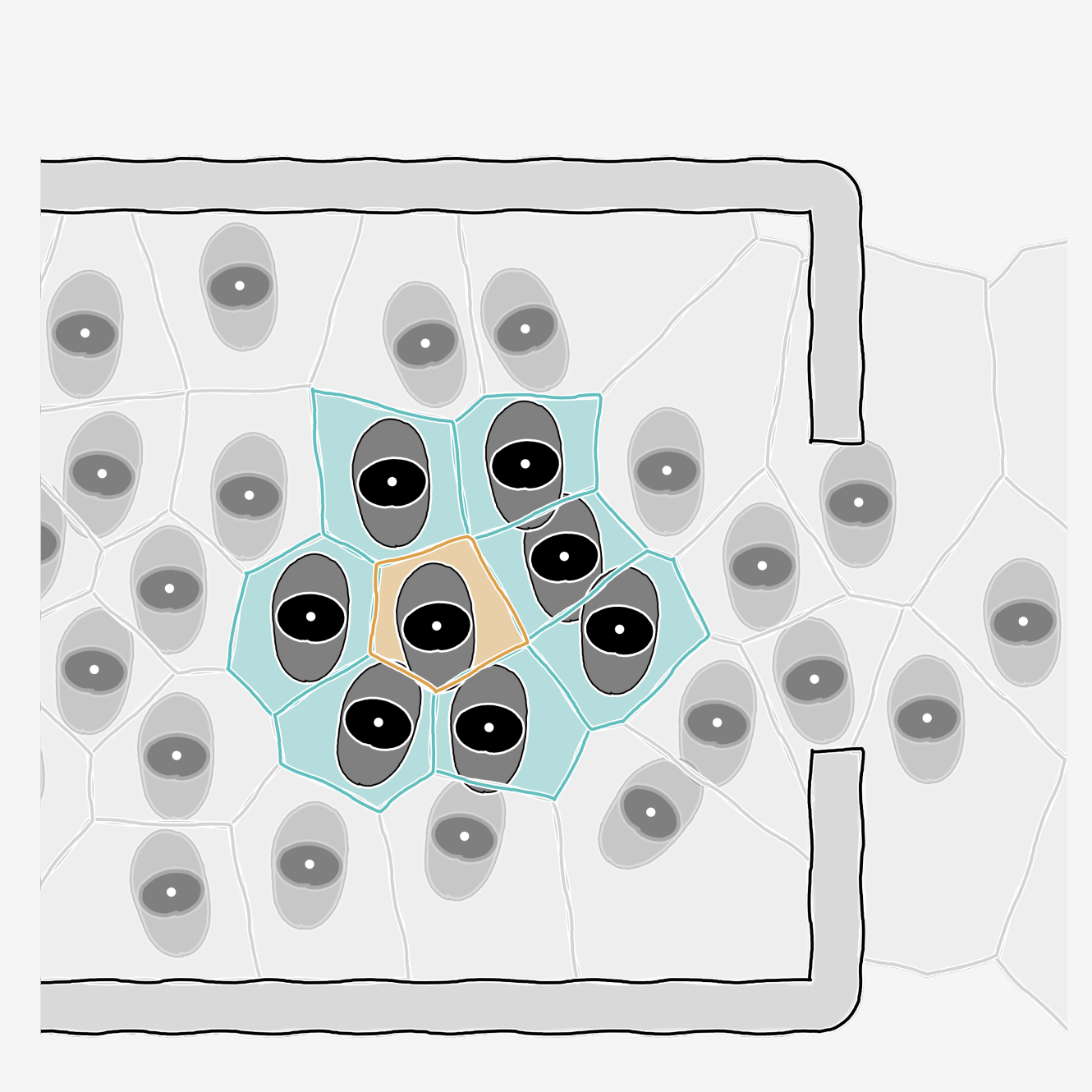
Density



FD



Profiles



Neighborhood

Install PedPy locally:

```
pip install PedPy
```

Run example notebooks remotely with Binder:

Introduction:



Methods A-D:



Try it out!

- Python library for analyzing pedestrian trajectories
- Open Source (GitHub, MIT-Licence)
- Re-implementation of JPSreport [1]
- produces the same results as JPSreport (Method A-D) [2]

Help us to make a great tool for the community!
Use it! Contribute!

Summary

[1] Zhang, J., Klingsch, W., Schadschneider, A. & Seyfried, A. Transitions in pedestrian fundamental diagrams of straight corridors and T-junctions. J. Stat. Mech. 2011, P06004 (2011).
[2] Chraïbi, Mohcine. JuPedSim/jpsreport: v0.9.0. (2022) doi:10.5281/zenodo.7319511.
[3] Schrödter, Tobias & The PedPy Development Team. PedPy - Pedestrian Trajectory Analyzer. (2023) doi:10.5281/zenodo.7756770.

References