This folder contains data and methods required to recreate the
OpenFOAM simulations presented in this paper.

OF_workflow.pdf:
This file contains 3 images depicting various stages of the micromodel
simulation development. The first image shows the construction of the
cylinders in Blender which were exported as a .obj file. The second
image shows the geometry constructed after running snappyHexMesh in
OpenFOAM. The rectangles here correspond to the resolution of the
simulation. The third image named shows the full flow field after
running the SimpleFoam solver.

OF_sample_case:
This folder (uploaded as a series of files here) contains a sample
case file that can be run to obtain the simulation results produced in
the paper. The script used to run the simulation is titled
"OF_Pronghorn_script". All files are uploaded as txt files, but
the .txt extension needs to be removed to run the simulation. The
folder structure needed to run the simulation is:

```
Parent_Dir
        – 0
                – p
                – U
                – uniform
                        – time
        – constant
                – transportProperties
                – turbulenceProperties
                – geometry
                        – cylinders.obj (uploaded here as
cylinders.txt)
                        – cylinders.emesh (not able to upload here)
        – system
                – blockMeshDict
                – controlDict
                – decomposeParDict
                – fvSchemes
                – fvSolution
                – meshQualityDict
                – snappyHexMeshDict
                – surfaceFeaturesDict
```