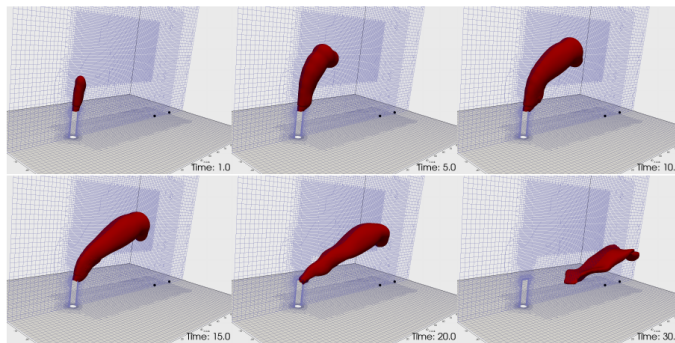


## Bachelor-/Masterthesis

### Simulation of exhaust gas dispersion

Within this work, the gas dispersion on special testcases have to be simulated using CFD. The exhaust gas concentration near a ship or around industrial buildings have to be evaluated using experimental data.

contour of CO<sub>2</sub> concentration=1%



Following tasks have to be adressed:

1. Working with Linux and OpenFOAM
2. Building a 3D model for simulation analysis and its careful meshing
3. Definition of boundary conditions
4. Simulation of velocity and concentration fields for different wind speeds and angles
5. Writing a technical report

**Requirements:** Interest in numerical simulation and fluid dynamics (CFD)

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