ONDŘEJ KINCL

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EDUCATION

Doctoral (ongoing)   **2020-**

- *Faculty of Mathematics and Physics, Charles University*
- *Thesis:* Numerical methods and mathematical modeling fit to non-equilibrium thermodynamics
- *Supervisor:* Michal Pavelka

Master   **2018-2020**

- *Faculty of Mathematics and Physics, Charles University*
- *Thesis:* Thermodynamic modeling of rolling fluid turbine
- *Supervisor:* Michal Pavelka

PUBLICATIONS

a Ondřej Kincl, David Schmoranzer, and Michal Pavelka. Simulation of superfluid fountain effect using smoothed particle hydrodynamics. Physics of Fluids 35.4 (2023).

b Ondřej Kincl, and Michal Pavelka. Globally time-reversible fluid simulations with smoothed particle hydrodynamics. Computer Physics Communications 284 (2023): 108593.

c Ondřej Kincl, et al. Unified description of fluids and solids in Smoothed Particle Hydrodynamics. Applied Mathematics and Computation 439 (2023): 127579.

d Ondřej Kincl, et al. Theoretical Analysis of Rolling Fluid Turbines. SIAM Journal on Applied Mathematics 82.1 (2022): 313-329.

PROJECTS

- **SmoothedParticles.jl,** https://github.com/OndrejKincl/SmoothedParticles.jl

COMPUTER SKILLS

Languages:	**Julia, C#, Python, HTML**
Frameworks:	**LaTeX, Fenics, GMSH, Git**

LANGUAGE SKILLS

English (advanced), Czech (native), French (pre-intermediate)

OTHER EXPERIENCE

- Vice president of SIAM Student Chapter Prague (organization of educational activities for students)
- Internship in Trento, Italy (supervisor: Ilya Peshkov)
- Teaching tutorials of Mathematical Analysis at Charles University