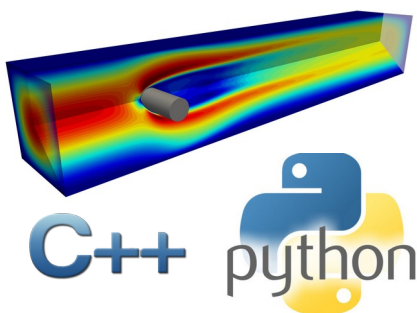
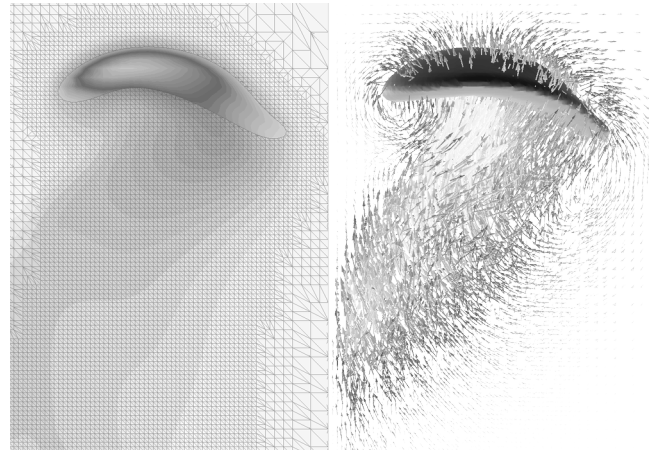


Student assistant in the field of numerics of partial differential equations

Background

Many physical problems can be described by partial differential equations. At the Institute of Numerical and Applied Mathematics (NAM) modern finite element methods are investigated to solve these problems efficiently. This includes the development of new methods, the numerical analysis of these methods and their efficient implementation. One focus is the research on numerical methods for problems in time-dependent domains and problems in fluid mechanics. For support in research and teaching we are looking for committed student assistants.

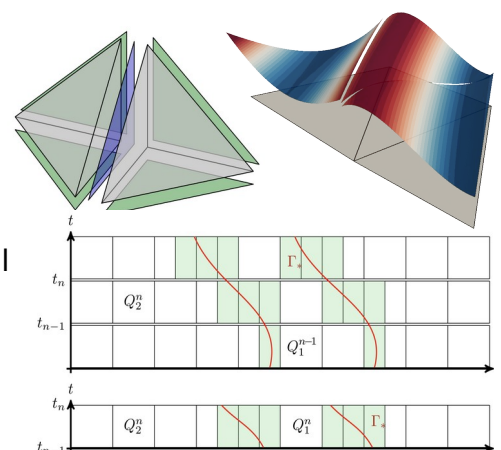


Your profile / your interests

- Ma. student of mathematics, comp. science or physics
- Knowledge of numerical methods for the solution of ordinary and partial diff. equations (especially FEM)
- Interest in numerical methods for PDEs
- Knowledge in programming (python / C++)

Your tasks

- Implementation of modern Finite Element Methods (Hybride DG, Unfitted FEM, ...) in the Finite Element library NGSolve
- Application of numerical methods for PDEs in physical simulations
- Support for Code development, maintenance and documentation.



If you are interested, please send an (informal) application by e-mail to

Contact:

Jun.-Prof. Dr. Christoph Lehrenfeld
lehrenfeld@math.uni-goettingen.de

Address:

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und Angewandte Mathematik
Lotzestr. 16-18, 37032 Göttingen