

Matthew B. de Stadler

www.mech.kth.se/~matds • www.linkedin.com/in/mdestadler

Experience

- Postdoctoral Research Associate**, Mechanics Department 09/2013-09/2014
Royal Institute of Technology (KTH), Stockholm, Sweden
- Coordination of R&D projects in the areas of fluid dynamics and applied aerodynamics
 - Project planning and writing of technical proposals (awarded 1.1 million CPU hours from PRACE)
- Research Associate**, Mechanical and Aerospace Engineering Department 09/2007-09/2013
University of California San Diego, La Jolla, CA
- Coordination and execution of R&D projects in the areas of fluid dynamics, environmental engineering and naval hydrodynamics
 - Performed large-scale CFD computations using thousands of cores
 - Published articles in top journals and presented research findings to audiences ranging from top international conferences to local teenage students
 - Designed and executed test suite for verification and validation of scientific software
 - Supervised and mentored junior PhD students in my research group
- Gordon Scholar**, Jacobs School of Engineering 09/2010-09/2013
University of California San Diego, La Jolla, CA
- Participated in engineering leadership development program including courses, workshops, forums and hands-on activities to develop leadership and communication skills
- Science & Engineering Technical Scholar**, Institute for Scientific Computing Research Summer 2007
Lawrence Livermore National Laboratory, Livermore, CA
- Developed a numerical simulation for fluid flow in a gas centrifuge
- Research Associate**, Mechanical and Aerospace Engineering Department 02/2005-05/2007
University of Virginia, Charlottesville, VA
- Investigated optimal geometries for a heat sink using CFD

Education

- Ph.D. Engineering Sciences (Mechanical Engineering), University of California San Diego 2013
- M.S. Engineering Sciences (Mechanical Engineering), University of California San Diego 2009
- B.S. Aerospace Engineering, University of Virginia. With highest distinction. 2007

Skills and Competencies

Technical expertise: Fluid mechanics, heat transfer, turbulence, computational fluid dynamics, scientific computing numerical methods, modeling and simulation, verification and validation, software development, parallel computing, proposal writing, project management

Programs: Fortran, C, C++, Matlab, Python, Visual Basic, MPI, Linux, bash, Subversion, XMGrace, Tecplot, Latex, HTML, CSS, SolidWorks, Fluent, Star-CD, OpenFOAM, COMSOL

Languages: Swedish (Intermediate), French (Intermediate)