

MARIN LAUBER

Born 28th August 1994 ◊ Swiss ◊ Living in Southampton, UK

Contact: (0044) · 0747 · 8278 · 616 ◊ M.Lauber@soton.ac.uk

EDUCATION

Integrated PhD in Next Generation Computational Modelling *September 2018 - Present*

University of Southampton, Maritime Engineering Group

Title: Flexible Sheets in Turbulent Flows

Taught Year: Lectures in Simulation and Modelling, Numerical Methods, Statistical Analysis, Computational Methods, Advanced Finite-Element Analysis, Partial Differential Equations, Integral Transform Methods.

Experience Gained: Developpement of a Finite-volume Cartesian grid solver (Fortran) to simulate thin flexible sheets/membrane in an unsteady flow. Developpement of a coupling with an open-source Finite-Element framework.

MSc in Maritime Computational Fluid Dynamics *September 2017 - September 2018*

University of Southampton

Thesis: Acquisition of Manoeuvring Characteristics of Ships using RANS CFD

Overall grade: *First Class*. Lectures in: Turbulence, Computational Fluid Dynamics, Aeroelasticity, Ship Resistance and Propulsion, Finite-Element Analysis, Hydrodynamics, Structures in Fluid.

BEng in Yacht & Powercraft Design *September 2014 - June 2017*

Southampton Solent University

Final Year Project: Preliminary Design of a Mini 6.50 with a Foil CFD Investigation

Award: The 2017 RINA - BAE Systems Student Naval Architect Award - Final Year Project

Overall grade: *First Class with Honours*

EXPERIENCE

Teaching Assistant *September 2019 - Present* *Univeristy of Southampton* *Southampton, UK*

- Teaching assistance for lectures/labs in Marine Hydrodynamics, Programming (Python), Computational fluid dynamics (Fluent).

Design of a 6m electric boat *September 2020 - January 2021* *AComposite.ch* *Aubonne, Switzerland*

- Design of a 6m electric boat aimed at a rental company in Geneva. Hull design, structural and stability assessment for registration, design of mould for CNC milling.

Shore Team during the 2015 C-Class world championship *September 2015* *Team Norgador* *Geneva, Switzerland*

- The work performed ranged from lamination to rigging, covering all aspects of high-performance sailing yacht maintenance.

Sailing Instructor *June 2010 - September 2016* *Société Nautique Rolloise* *Rolle, Switzerland*

- Sailing instructor during summer camps (8 weeks) with children aged 8 to 18.

SKILLS

Languages	French (native), English (proficient user), German (independent user)
Computer Languages	Python, Fortran (OpenMP, MPI), <i>C</i> , Matlab
Modelling	Autocad, Rhinoceros 5, Maxsurf (modeller, stability, seakeeping, structure), Solidworks
CFD	Star-CCM+, Ansys Fluent, Ansys CFX, OpenFOAM
FEA	ABAQUS, Ansys APDL
Experimental	Towing Tank (resistance, seakeeping)
Other	HullScant (ISO 12215), WinDesign (VPP)

ADDITIONAL INFORMATION

Interests	Sailing, kite surfing, skiing
Driving Licence	A1, B , Sailing & motor yachts (Swiss)