

Jo Smith

Student Civil Engineer

Contact:

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EDUCATION

2011-2016 **Master of Engineering (Civil)**

School of Engineering
University of Edinburgh

Degree average: 75.5%
(1st-class in U.K., 4.0 GPA in U.S.)

2007-2011 **High School Diploma**

Belmont High School
Belmont, MA 02478
USA

High Honor-Roll

Key courses:

- Port design & maritime construction
- Coastal structures
- Computational geo-mechanics & hydraulics
- Structural dynamics
- Climate change science
- Renewable energy technology

Key projects:

- Final year thesis in climate change influence on overtopping hazards at seawalls
- Deep-water port design
- Interdisciplinary hydropower scheme design
- Wind turbine foundation design
- Tunnel-excavation temporary works design

TRAINING / RESEARCH

06/2015 - 09/2015 **Researcher at HR Wallingford** *Wallingford, U.K.*

Designed and conducted physical model tests of vertical blockwork breakwaters. Assessed failure-mechanisms and post-collapse wave transmission characteristics. Developed the conceptual framework, model design, experimental methodology, and set-up data acquisition systems. Built, tested, and analysed the structural and hydraulic performance of the model. Currently co-author of all related internal and external reports and papers.

Developed project management skills, technical and commercial knowledge of maritime engineering, communication skills, and complex problem-solving.

06/2014 **Team leader at maritime engineering conference** *Caen, France*

Selected and given a bursary to represent my university at a four-week European conference at the French engineering school ESITC Caen. Volunteered to be project manager of a team of 10 international students for the duration of the conference, where we simulated a bid for a design-build contract of a new deep-water port. Organized team meetings, delegated tasks, and coordinated progress using MS Project. This culminated in a final presentation of our bid and a technical report. My team earned the highest mark of the three competing teams. Conference also provided lectures in dredging technology, port typology, coastal defense, dolphin design, ship mooring, and numerical modeling of wave propagation and agitation. Used programs NSO Fastrudl, TOMAWAC, OPTIMOOR, K-REA, OpenFoam, and Artemis

Developed command of hydraulic, structural, and geotechnical engineering, communication and leadership skills.

08/2010-06/2011 **Researcher at Harvard Medical School** *Boston, U.S.A.*

Researched molecular biology in the Ruvkun Lab during high school. Assisted postdoctoral researcher with exploration of micro-RNA pathways in *C. elegans*. Balanced this work with full-time studies, varsity athletics, and commuting to and from downtown Boston.

Developed data and time management skills, ability to adapt and learn in a new and challenging environment.

2007-2014 **Sailing instructor and racer** *Northeast Harbor, U.S.A.*

Instructed courses at well-regarded New England sailing school. Prepared and delivered safe lesson plans, supervised land and sea activities, and managed a fleet of Mercury sailboats and small powerboats. Worked closely with co-instructors to teach classes of up to 100 children at a time.

Maintained and crewed on 38' Swan racing yacht in weekly regattas. Learned vessel maneuvers, navigation, rigging, engine maintenance, inventory, rope-work, and racing techniques.

Developed leadership, communication and teamwork skills, as well as seamanship.

EXTRACURRICULAR

2012-2016 **Student government** *University of Edinburgh, U.K.*

Senior student representative for undergraduate civil engineering programme. Collect feedback, liaise with staff, and chair bi-annual meetings. Helped redesign the course feedback system and resolved many course-specific issues.

2015-2016 **Hydraulics tutor** *University of Edinburgh, U.K.*

Tutor for introductory hydraulics for 2nd year engineers.

08/2010 **Outward Bound wilderness course** *Oregon, U.S.A.*

Mastered river navigation and mountaineering in Oregon. Practiced safe navigation, rescue procedures, routes planning, and wilderness safety. Developed leadership and communication skills through daily practice and group discussions.

2007-present **Sports** *Worldwide.*

Captained varsity lacrosse and played varsity soccer in high school. Muay-Thai kickboxer at American Martial Arts Center, MA, for four years. Sailed 420s for Northeast Harbor Fleet in two Junior Olympic Sailing Festivals (Northeast) and crewed on yachts in many regattas. Avid soccer, basketball, and rugby player.

2008-present **Spanish language learner** *Worldwide.*

Four-years in high-school, one-semester at university, multiple stays in Spain, and involvement in student language exchange programme. B1 level (uncertified).

06/2013 **American Red Cross CPR, AED, and First-aid certified** *Waltham, USA*

References

Contact details available upon request

Past employer

Professor J. Watson
Manager
HR Wallingford
Tel: 0181100800
United Kingdom

Director of studies

Professor R Jones
School of Engineering
University of Edinburgh
Tel: 0131100100
United Kingdom