

## Thomas Dickson

---

tajd@protonmail.com  
tajd.github.io

**OBJECTIVE** To work as part of a team exploring, modelling and communicating uncertainty in numerical models to solve practical problems.

**EDUCATION** *PhD*, Uncertainty in Marine Weather Routing; An application into Polynesian Seafaring  
University of Southampton, Southampton, UK, 2016-2020 (Expected)

*MEng*, Ship Science  
University of Southampton, Southampton, UK, 2011-2016

**TECHNICAL SKILLS** *Languages & Software:* Python (numpy, matplotlib, pandas, plotly, scikit-learn), Julia, Docker, Heroku, AWS (EC2), Matlab, Common Lisp, Excel VBA, MySQL, CI/CD pipelines, test development, version control (git), Jekyll, Hugo  
*Operating Systems:* Linux, Windows, Unix  
*Numerical Analysis:* Optimization, Machine Learning, Linear Algebra, Calculus, Monte Carlo Methods, Iterative Methods, Parallel Programming, Data Structures, Uncertainty analysis, Sensitivity analysis

**EXPERIENCE** *English Institute of Sport Senior Research Assistant* December 2019-April 2020  
Performance Sport Engineering Laboratory, University of Southampton

- Implemented novel data driven modelling tools and analysis.
- Experimental analysis and communication.
- Interactive online dashboard.
- Developed integrated hardware and software systems for experimental equipment.

*Naval architect* September 2013 - August 2014, Summer 2015  
DSTL, Portsmouth, UK

- Developed analysis tools in Excel VBA to cost complex engineering projects.
- Communicated technical analysis to diverse stakeholders.

**References on request**