

## Thomas Dickson

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tajd.github.io

<b>OBJECTIVE</b>	To work as part of a team exploring, modelling and communicating uncertainty in scientific models to solve practical problems.
<b>EDUCATION</b>	<p><i>PhD</i>, Uncertainty in Marine Weather Routing; An application into Polynesian Seafaring University of Southampton, Southampton, UK, 2016-2020</p> <p><i>MEng</i>, Ship Science University of Southampton, Southampton, UK, 2011-2016</p>
<b>TECHNICAL SKILLS</b>	<p><i>Languages &amp; Software</i>: Python (numpy, matplotlib, pandas, plotly, scikit-learn), C++, Julia, Matlab, Common Lisp, Excel VBA, MySQL, continuous integration, version control (git)</p> <p><i>Operating Systems</i>: Linux, Windows, Unix.</p> <p><i>Numerical Analysis</i>: Optimization, Machine Learning, Linear Algebra, Calculus, Monte Carlo Methods, Iterative Methods, Parallel Programming, Data Structures, Uncertainty analysis, Sensitivity analysis</p>
<b>EXPERIENCE</b>	<p><i>English Institute of Sport Research Fellow</i>      December 2019- November 2020 Performance Sport Engineering Laboratory, University of Southampton</p> <ul style="list-style-type: none"><li>• Implemented scientific models to improve accuracy of sports analysis for Team GB.</li><li>• Delivered web apps to communicate results.</li><li>• Developed integrated hardware and software systems for experimental equipment.</li></ul> <p><i>Naval architect</i>      September 2013 - August 2014, Summer 2015 DSTL, Portsmouth, UK</p> <ul style="list-style-type: none"><li>• Developed analysis tools in Excel VBA to cost complex engineering projects.</li><li>• Communicated technical analysis to diverse stakeholders.</li></ul>
<b>EXTRA-CURRICULAR ACTIVITIES</b>	<p>Elected treasurer University of Southampton Salsa Society Sailor, offshore yacht racing and inshore regattas</p>