

# MarcusMo

## Contact

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## Programming

C, C++

OpenMP, MPI  
Nvidia CUDA

HTML5, CSS3  
JavaScript, jQuery

## Profile

Becoming a post-graduate allowed for further specialism in exciting areas such as high performance computing, data mining, and advanced numerical analysis; building upon the theoretical knowledge gained from studying Mathematics. Outside of academia, my passions involve experimenting with modern web technologies to develop performant and engaging experiences.

## Education

2012–2013	<b>MSc Scientific Computing</b> <i>Parallelisation of Simultaneous Eigenvector Computations</i> Explored parallelisation techniques with respect to finding newforms via simultaneous Hecke eigenspaces; relating to the construction and tabulation of elliptic curves. A multi-threaded strategy was built, with Boost libraries, on top of an existing open-source C++ serial implementation: Eclib.	The University of Warwick
2009–2012	<b>BSc Mathematics</b> First CLass (Hons.)	The University of Warwick
2007–2009	<b>A-Level</b> A-Level: AAA; AS-Level: A	Alcester Grammar School, Sixth Form
2002–2007	<b>GCSE</b> AS-Level: A; GCSE: A*A*A*A*A*A*A*A; GNVQ: Distinction	St. Benedict's Catholic High School

## Experience

2009–Present	<b>LaTeX Tutorials</b> <i>Designer, Developer, Chief Editor</i> Developed an interactive tutorial website, by compiling a database of common mathematical statements, for others to learn the typesetting language. Later collaborated with peers to provide online documentation on LaTeX, with a focus on simplicity and low-entry level experience. The site was used as an interactive teaching aid during seminars provided by the Warwick Maths Society.	latex tutorials.co.uk
2011–Present	<b>Virtual Futures</b> <i>Designer, Developer</i> Collaborated with organisers and artists to develop an online archive for past and future conferences; built with Wordpress.	virtualfutures.co.uk
2010–2012	<b>TEDxWarwick</b> <i>Media Team Member, Design Consultant</i> Designed yearly event motifs, programmes and other marketing materials. Developed the TEDxWarwick 2011 website, and Facebook marketing pages for TEDxWarwick 2012.	tedxwarwick.co.uk
2011–2012	<b>Warwick Student Cinema</b> <i>Chief Editor</i> Organised and coordinated volunteers for copy-writing and graphics sourcing; contributing to the termly film programme. Provided training and support for QuarkXPress.	

## Interests

**professional:** software development, high performance computing, parallel programming, web development and performance **personal:** badminton, mathematics, UX design, Go, typography.