

# COLM BASTON

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## EDUCATION

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OCT 2016 – PRESENT	<p>THE UNIVERSITY OF NOTTINGHAM <i>PhD Computer Science</i></p> <ul style="list-style-type: none"><li>– I am supervised by Dr Venanzio Capretta and Dr Natasha Alechina.</li><li>– Broadly, I am interested in functional programming and am a member of the Functional Programming Lab. More precisely, my research interests are in mathematical logic and dependent type theory, specifically in epistemic logics and how they can be modelled within a dependently-typed setting by utilising coinductive types.</li></ul>
SEPT 2012 – JUNE 2016	<p>THE UNIVERSITY OF NOTTINGHAM <i>MSci (Hons) Computer Science</i></p> <ul style="list-style-type: none"><li>– I graduated with a first-class degree on 16<sup>th</sup> July 2016.</li><li>– My full degree transcript can be made available upon request.</li></ul>
SEPT 2005 – JUNE 2012	<p>ST. RICHARD GWYN, FLINT, FLINTSHIRE <i>GCSEs and A Levels</i></p>

## EMPLOYMENT

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FEB 2015 – PRESENT	<p>THE UNIVERSITY OF NOTTINGHAM <i>Lab Assistant, Tutor, and Marker (Casual)</i></p> <ul style="list-style-type: none"><li>– I've provided teaching assistance to the convenors of the following undergraduate modules within the School of Computer Science.</li><li>– Advanced Functional Programming (for four years)</li><li>– Mathematics for Computer Scientists (for two years)</li><li>– Programming Paradigms (for two years)</li><li>– C++ Programming (for one year)</li><li>– Computer Fundamentals (for one year)</li><li>– Programming and Algorithms (for one year)</li></ul>
JUNE 2013 – SEPT 2013	<p>REMSDAQ LTD. <i>IT Assistant</i></p> <ul style="list-style-type: none"><li>– I worked closely with the manager of the IT department in transitioning to a virtualised server environment. My role also involved general domain administration as well as providing technical support to many of the other departments on-site.</li></ul>

## ACCOMPLISHMENTS & INVOLVEMENTS

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- During my second and third years of study at The University of Nottingham, I was involved with the *Computer Science Guru Programme* as a guru: a student volunteer who aids with the integration of first year students into university life and into their studies.
- During my second year of study at The University of Nottingham, I was a member of the group awarded the *School Prize for Best Group Project 2013/14* for our project *Football Facsimile*, a 2D graphical football simulation viewed from a top-down perspective.
- During my time at St. Richard Gwyn, I was awarded a *Bronze Duke of Edinburgh's Award* for engaging in a number of extracurricular activities. These included membership of a local archery club, taking a Japanese language and culture course, volunteering at a local charity shop, and participating in a two-day expedition with a group of fellow students from the school.

## SKILLS

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- I have experience with a wide range of software systems and programming languages. I choose to employ Haskell for the majority of my day-to-day programming tasks, but I also have experience with ARM Assembly, C, C++, Java, Python, R, and SQL. I am familiar with mathematical logic and formal reasoning, particularly using the type-theoretic proof assistants Agda and Coq.
- I am most comfortable when working in UNIX-like environments and with the complement of tools that accompany them. I am proficient with version control systems, especially Git, and also with typesetting documents (such as this one) using L<sup>A</sup>T<sub>E</sub>X.