Christian Pardillo Laursen

Education

2020-2021 **MPhil Advanced Computer Science**, *University of Cambridge*.

- L11 - Algebraic Path Problems
- L18 - Automated Reasoning
- L304 - Multicore Semantics and Programming
- L310 - Mobile Robot Systems
- L41 - Advanced Operating Systems

2017-2020 **BSc Computer Science**, *University of York*, First Class Honours (with Distinction).

- 3rd Year - 88.5%
  IET Award - Best Performance in the Third Year
  Dissertation: Integrating Theorem Proving with Computational Algebra Systems
  Wrote a plug-in for the Isabelle theorem prover that allows it to obtain symbolic solutions to ordinary differential equations.
- 2nd Year - 85%
  Departmental Award for Best Performance in the Second Year
- 1st Year - average: 78%

Experience

June–August 2020 **Research intern**, *YorRobots, University of York*.
Developed a method for verifying a model of a robotic control algorithm and soundly refining it to a C program using the Isabelle proof assistant.

Skills

Languages — Fluent in Spanish, English and Danish. B1 in German.

Programming — Experienced in Haskell, Python, Java and a variety of other languages.

Computing theory — Experienced in the design and analysis of algorithms in various areas of computer science, as well as system modelling and refinement.

Linux — Adept at using the terminal and a wide range of utilities to manage Linux systems and work efficiently.

Formal methods — Gained experience during my education in how to apply formal methods to software engineering, using a variety of tools such as the Isabelle proof assistant and the FDR4 model checker.

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