

Roger Hill

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Profile

I am a PhD researcher in the Centre for Complexity Science at the University of Warwick. My project aims to understand the impact of circadian timing in relation to patient outcome and drug toxicity, in collaboration with the Chronotherapy laboratory at Warwick Medical School.

Current position

2016–Present	PhD researcher, Centre for Complexity Science, University of Warwick, UK. Thesis title: Mathematical pharmacokinetics/pharmacodynamics with respect to circadian rhythms. Supervisors: Annabelle Ballesta (Inserm Ile-de-France) & Francis Lévi (University of Warwick). Award: Full EPSRC Scholarship
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Education

2015–2016	MSc in Mathematics of Real-World Systems with Merit, University of Warwick, UK. Research project: Convex optimisation in communications systems. Research project: Predictive modelling and treatment optimisation for colorectal cancer. Award: Full EPSRC Scholarship.
2014–2015	MSc in Mathematical Medicine and Biology with Merit, University of Nottingham, UK. Research project: The rise and behaviour of multiple antimicrobial plasmid mediated resistance within a slurry lagoon system.
2010–2013	BSc in Mathematics with 1st Class Honours, Keele University, UK.

Skills

Modelling	Mathematical modelling and analysis using various mathematical techniques, including ODE and PDE methods.
Coding	I am well versed in both Matlab and <i>Python</i> . I have produced numerous models in these languages, I also have published code which was produced during a group project in my MSc at the University of Warwick (https://github.com/cvxgrp/cvxpy/tree/master/examples)
Communication	Excellent communication skills developed through presentations to both academic and non-academic audiences, and through working with non-mathematical collaborators.
Team work	The ability to work well within a multi-disciplinary team, as demonstrated by completing successful projects throughout my MSc at University of Nottingham and the University of Warwick.

Teaching

2016-2019	Teaching assistant for Maths by Computer (Undergraduate Module).
2016-2019	Teaching assistant for Experimental Maths (Undergraduate Module).
2016	Teaching assistant for Introduction to Systems Biology (Undergraduate Module).