

Roger Hill

Centre for Complexity Science, University of Warwick, West Midlands, CV4 7AL, UK.
Email: r.hill.3@warwick.ac.uk. Website: www.warwick.ac.uk/rogerhill.

Education

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
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.
2008–2010	A Levels, Queen Elizabeth's Grammar School, Alford Mathematics A, Further Mathematics C, Business Studies C.
2006–2008	GCSEs, Monks' Dyke Technology College 3 As, 4 Bs, 2 Cs.

Experience

2019	Website development: Louth Methodist Church and personal website. <ul style="list-style-type: none">• Created from base up a website to advertise the Churches rooms to rent.• Liaised with client to understand the extent of their requirements.• Organised feedback sessions to ensure the client was satisfied with outcomes.
2017-2019	Teaching, University of Warwick. <ul style="list-style-type: none">• Taught mathematical computation and coding to 1st year students with little to no coding experience.• Communicated complex material to large groups.• Organised and facilitated experimental mathematics lessons.
2014-2015	Salsa Team Captain, University of Nottingham. <ul style="list-style-type: none">• Choreographed and taught a dance routine.• Organised multiple trips to compete across the country.• Lead he team to the most successful year since it's founding.
2013-2014	Teaching assistant, Grove School, Market Drayton. <ul style="list-style-type: none">• Worked with failing students to gain the levels of progress required.• Ran extra morning and evening study sessions for students.• Facilitated activities at lunch times and after school for the students who struggled with behaviour to have a safe place to use up energy.
2011-2012	Men's 1st team captain, Keele University. <ul style="list-style-type: none">• Lead the team to safely retain their league position.• Communicated with the coach in order to improve the team.• Engaged in conflict management between team members.

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).

References

Available upon request.