Rory Geeson

2019 cohort

Department of Computer Science and Technology

I joined the CDT in 2019 after completing the MEng in Chemical Engineering (via Engineering) at the University of Cambridge. My time in undergrad included a summer research project within the Boies group performing a measurement campaign on air particulate levels and a final year research project exploring the use of quantised state system solvers for molecular dynamics simulations.

The aim of my research is to develop techniques for the optimisation of multi-step modelling through the use of machine learning techniques. Much of my work will focus on graph based techniques and how these representations may lead to more efficient process formulation. Further work will explore the use of relational inference for determining bulk scale properties from cheap, small scale experimentation.

I was drawn to the Syntech CDT by its truly interdisciplinary focus and opportunities for exploring a wide range of subject and problem areas within chemistry and computer science. I hope my time on the course will lead to my development as a well-rounded researcher, capable of tackling modern, interesting problems.