Dawid Stasiak

Swansea University

Research Area: Theoretical Physics

About me:

I was born in Poland in 1995, arrived in the UK when I was 11 and studied Theoretical Physics for 4 years at a London Russell Group University.

Science/ Research information:

I use Mathematica as a programming tool to model the “melting” of tiny particles produced inside hadron colliders where they are subject to very high temperatures.

In my model, I specify a system of either 2 or 3 particles that are held together by a strong force. I then impose on that system the effects of being inside a very dense medium, this then allows me to obtain information about our system at the critical point of melting.

Data Intensive Skills and interests:

I have a general knowledge of programming and data analysis that stems from the work undertaken at under and post-graduate level. Mathematica is my main working environment which I use as a platform to understand general programming concepts, my secondary programming language is Python.
I have been trained in Machine Learning, Bayesian statistics and Data Visualisation as part of a CDT program.
I can also use Excel and other relevant microsoft packages as data analyisng tools.

I am interested in machine learning techniques and its applications.

Future goals and desires:

Future goal is to be working in a challenging field where I can apply the skills I obtained throughout my academic career.