



CHAMPS

Chemistry and Mathematics in Phase Space CHAMPS Tutorial Series: Applying Machine Learning in Chemistry and Dynamics

Friday 22nd September 2017

University of Bristol, School of Mathematics, University Walk, Bristol, BS8 1TW.

Applications of machine learning are exploding in many fields. In this two-part tutorial, we will introduce some of the basic tools and techniques and then show how they can be applied with a series of applications.

<i>10.00am - 10.30am</i>	<i>Welcome Session</i>
<i>10.30am - 12.30pm</i>	<i>Morning Session: Introduction to the python data science pipeline.</i>
<i>12.30pm - 2.00pm</i>	<i>Lunch (provided)</i>
<i>2.00pm - 5.00pm</i>	<i>Afternoon Session: Some simple examples of machine learning applications</i> <ul style="list-style-type: none">• Rob Arbon: learning to classify handwritten digits• Silvia Amabilino: learning potential energy surfaces• Mike O'Connor: learning body coordinates in VR

Prerequisites: Participants will need to bring with them to the tutorial a laptop computer (with internet capability) that has the latest Anaconda Python distribution (python version 3). Some elementary knowledge of Python will be useful. There is no cost for the tutorial, however **spaces are limited to the first 20 people that register**. You can register through the following link: [FORM](#)