

Sergio Chaves García-Mascaraque Swansea University Lattice QCD - Non-zero temperature QCD Mesons at non-zero temperature QCD

About me:	Data Intensive Skills and interests:
About me: I am a Spanish PhD student who studied a physics degree at Universidad Autónoma de Madrid, in Spain. Moreover, I got a master's degree in Nuclear Physics in the same organization. Related to physics, I am mainly focused on theoretical high energy physics, but I am opened to related areas such as condensed matter physics or statistical physics. Besides physics, I have always liked engineering areas such as computer science or data analysis. Since my brother is an aerospace engineer, I also take an interest in fluid mechanics. Outside academia, I am really interested in the video-game industry and studying social trends using data analysis.	 Data Intensive Skills and interests: I know statistics and probability theory, as well as a wide range of mathematics. I really like coding, my main languages being Python and C++. I also know a little bit of Javascript, PHP and SQL, therefore I have a little bit of knowledge of web programming and database administration. During my first year as a PhD student in Swansea, I had to write my own code to fit non-linear functions to large amount of data. The code uses bootstrap iterations and implements a Nelder-Mead algorithm. It is parallelized using MPI to save time. I know shell scripting, which I widely use to automate most everyday tasks. I am a big fan of Linux, my main work tool.
I would describe myself as independent and open for new ideas. My curiosity is wide, facing any 'challenging' problem offers tremendous opportunities to learn.	community, being able to extrapolate all my knowledge to those fields of computer science. You can check out my github account:
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Science/ Research information:	https://github.com/schavesgm
I am currently working in QCD at non-zero temperature using a lattice field theory approach. Using the lattice enables you to calculate non-perturbative physical observables related to the quark-gluon plasma. All of them require Monte Carlo simulations, as well as complex data analysis.	A webpage I wrote about MPI parallelization: https://schavesgm.github.io/

Future goals and desires:

As an open minded and curious person, I would like to try different areas, related to computer science. Learning about what it is being done in industry will help me to guide my choices.