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Cohort 2016
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Research project: Ergodic properties and response theory for models in geophysical fluid dynamics of intermediate complexity

I studied Mathematics in the University of Bologna in Italy for five years, even if I am from the Italian eastern coast! My degree program was fairly broad, from pure to more applied, and I always enjoyed both aspects of Mathematics, even if mathematical physics and probability were (and are) my favourite topics. I finished my bachelor cum laude and my final project was on fluids models and their instabilities. I did a two years master, 6 months of which I spent in Paris at the university Paris Diderot for an Erasmus exchange.

I graduated from Bologna University cum laude with a dissertation on stochastic processes and dynamical systems. This project helped me understand how important dynamical systems are in modelling several behaviours we can witness in reality. At the same time I developed a deep concern and interest about climate change, its causes and consequences so I looked for an opportunity to tackle this problem with what I studied so far. I did not want to do just a PhD in Mathematics, I wanted my two passions to intersect as much as possible. That is why I was very enthusiastic when I got to know about this program. I came here without a specific project in mind but passion so I found extremely helpful the possibility to choose among a very wide number of first class supervisors, tailoring the project on my capabilities and interests and using cutting-edge mathematics.

Becoming a student of MPE CDT is really more about entering the MPE community, wherein students and academics collaborate in a very positive way and we are trained as a cohort. In particular I find getting to know students from different scientific and personal backgrounds mind opening. Moreover, I admire the effort in outreach and delivering science and that we are strongly encouraged to work on our communication skills, to be proactive and always curious. I never considered myself an excellent science communicator but I believe my experience within the MPE CDT will help improve my skills. "