## **Student Expectations**

Thank you for your interest in Ocean / Atmosphere Time Series analysis at the University of Hamburg. Please read through this document closely before applying.

- 1. The course runs March 17–28, 2025, Monday through Friday, 10:00–3:00 PM, five hours per day, inclusive of a lunch break.
- 2. The course is in person with no option for remote or hybrid attendance.
- The course will be very intensive, as there will also be work assigned outside of class time. Students are expected to clear their schedules during that time to the extent possible. Planning to keep up with other major responsibilities during the course time (e.g. research deadlines or teaching) is not realistic.
- 4. It may be possible to work out minor conflicts with course times. These should be communicated to the instructor at the time of application, or as soon as they are known.
- 5. Students can choose to work in either Python or Matlab. Thus, some familiarity with one (or both) of these two languages is a prerequisite.
- 6. Because some of the course time will be lab time involving coding assignments, students are expected to bring a laptop to class each day with one of those two languages running.
- 7. Students are expected to bring a dataset of their choice to analyze, and are expected to show up on the first day prepared to begin working with that dataset in either Python or Matlab.
- 8. Since there will also be algebra and drawing assignments, students are expected to bring a notebook and a pen or pencil.
- 9. The final project consists of both an oral presentation and a written report, illustrating the application of the methods studied to the student's dataset. These are expected for all participants.
- 10. The course takes a "from the ground up" approach, and therefore, no prior experience in time series analysis is required. Nevertheless, some previous exposure to complex numbers and matrix algebra is assumed. Applicants lacking such experience are expected to familiarize themselves with these topics prior to the start of the course.
- 11. In the two weeks before the course starts, the instructor will send details to the participants regarding software package installation and other preparations for the

course. The students should plan to be available and responsive during this time, or else communicate this with the instructor ahead of time so that other arrangements can be made.

- 12. This course is oriented for current PhD students or postdoctoral researchers in oceanography, atmospheric science, or climate studies. Master's students, and students from other fields, are welcome to apply and should explain the rationale for their participation at the time of application.
- 13. Occasionally there are students with more advanced backgrounds who may already be familiar with some of the material. Such students very welcome to attend, but are still expected to fully participate; partial attendance is not an option. This is because the "group mind" or communal experience is an important part of this course. Any such more advanced students should endeavor to help others during group exercises, and to challenge themselves to understand the material as well as teaching methods more deeply.