



Applied Data Science in Digital Psychology

“Applied Data Science in Digital Psychology” is funded by the Bavarian State Ministry for Science and Art. Its aim is to equip students who want to learn skills at the intersection of Psychology and Data Science, do better research and improve their prospects on the competitive employment market.



„Applied Data Science in Medicine & Psychology“ (ADS) covers basic statistical knowledge and hands-on Python exercises. We will start with relevant knowledge from both disciplines (statistics and programming), which will allow you to analyze your data more efficiently. Since this is a course for students from many different disciplines (life sciences, psychology, medical engineering, etc.) we will gradually build up your knowledge which will allow you to cover more complex ideas as we move through the course.



This course will also complement the seminars „Digital Health Psychology“ (DiPsy) and „Digitalization in Clinical Psychology“ (CliPsy), as prior knowledge of Python and data analysis will enhance the benefit of both seminars for you. In these seminars we will answer real-life research questions, planning and conducting small studies and learning how to analyze data from questionnaires, biosignals, and wet biomarkers.

The module “Best Practices in Open Science” (BPOS) will cover the topics that researchers and (young) scientists should know about the Open Science movement. We will start by explaining the importance of open and reproducible science and how researchers, institutions and the general public benefit from it. We will discuss the Pros and Cons as well as best and worst practices and case studies. After completing this course, you will have gained an overview over the steps to take for more accountability in their own research and how “good (enough) practices” will allow for better use of resources and benefits for all through more evidence-based interventions.

Psycholog*innen können die beiden Module „Applied Data Science in Medicine & Psychology“ und „Best Practices in Open Science“ im Bachelor- oder Masterstudium als Nebenfach (Ergänzungsbereich) belegen. Das Seminar Digital Health Psychology (DiPsy) kann als Projektseminar belegt werden.