

Landau,

06.03.2025

Reference Letter Dider Hossain

I supervised **Mr. Md. Dider Hossain**, during his internship at Rheinland-Pfälzische Technische Universität (RPTU) from September 20, 2023, to January 16, 2024. During his internship he first translated functioning python code to simulate a food-web community into functioning R code and thereafter worked on statistical models and machine learning methods to understand how physio-chemical properties may affect the distribution of chemicals.

Both projects were of considerable complexity and Dider Hossain learned the necessary theory to understand both these complex projects. Specifically, the food-web model is based on trait-specific approach and includes the effects of temperature on ecosystem functioning. The project concerning chemicals included experimental data and a data-analysis part for which Dider Hossain independently decided which analysis are best to use.

Dider Hossain worked independently during this time, we met a few times to discuss the goals of the project after those meetings Dider Hossain would independently work on the solution of these problems. Dider Hossain was highly motivated and open to try new things and experiment with problems he hasn't seen before. He showed good knowledge of both R and Python programming language.

Dider Hossain demonstrated strong proficiency in Python programming, R programming, data analysis, and machine learning. He exhibited a high level of motivation, curiosity, and dedication throughout the internship, consistently seeking opportunities to learn and improve his skills. In addition, Dider Hossain's behaviour towards his superiors and colleagues was exemplary. He maintained a professional attitude, collaborated effectively with team members, and consistently delivered high-quality work.

Best regards,



Dr. Jürg W. Spaak