

**Faculty of Civil Engineering** 

## **Declaration of independent authorship**

I, hereby, confirm that I have completed the submitted work without any inadmissible help from third parties or the use of any aids beyond those specified. Content, text passages and ideas taken directly or indirectly from external sources, including the internet, online translators or other digital sources, must identified as such without exception.

Furthermore, I confirm that arguments, text passages, program codes, pictorial and other representations (figures, diagrams, overviews, tables, etc.) as well as other content-based results created by generative Artificial Intelligence (AI) or with the help of programs based on generative AI have been labeled as such by me without exception, and the sources (including program, date of access, input data) have been indicated. Digital spelling, grammar and paraphrasing aids are an exception, as long as they only edit texts produced by me and do not generate any new content.

I confirm that I adhere to the Guidelines for Good Scientific Practice at TU Dresden.

I also certify that the paper version I have submitted is identical to the digital version and that this academic work has not been submitted to any other examining authority in Germany nor abroad in the same or a similar form, nor has it already been published.

Dresden, xx. March 2025 -Signature of the Student-

John Doe