

CERTIFICATE

In the context of the Erasmus+ project

„The Development of Doctoral Education and
Research Capacities of Kyrgyzstan Academy“ (DERECKA)
№ 609918-EPP-1-2019-1-KG-EPPKA2-CBHE-JP

PROF. DR. MICHAEL GILLE

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Hamburg, 15.12.2022

Hereby it is certified that

Zhyldyz Mamadalieva

has participated in the Seminar

“Good academic practice and scientific literature review”

during the period of 28.11.2022-23.12.2022

at the University of Applied Sciences Hamburg.

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**PROF. DR.-ING. MARINA
TROPMANNFRICK**
Professor for Data Science

Hamburg, 15.12.2022

Hereby it is certified that

Zhyldyz Mamadalieva

has participated in the seminars

“Systematic literature review” and

“Python for Data Analysis: Data wrangling with
Pandas, NumPy, Matplotlib, and Jupyter”

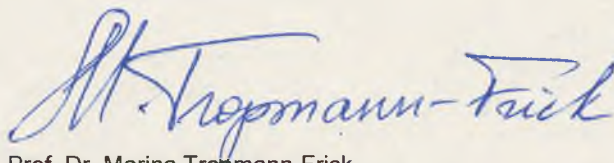
during the period of 28.11.2022-23.12.2022

at the University of Applied Sciences Hamburg.

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