



# NATIONAL CHENG KUNG UNIVERSITY

*on the recommendation of the faculty of  
the Graduate Institute of Biomedical Engineering,  
College of Engineering  
has conferred upon*

**TRAN DUONG THUY (陳雲玉)**

*the degree of*

**Doctor of Philosophy**

*together with all the honors, rights and privileges belonging to that degree.*

*In witness whereof, this diploma is issued with the university seal on March 2023.*

Certificate No.: 202304-8040

Student ID : P88067047

*Meng-Ru Shen*

*Meng-Ru Shen, Dr.*

*President*