

Indiana Chiunsitu

Graduate School

To all who may read these letters, Greeting:

hereby it is certified that upon the recommendation of the Haculty, the Trustees of Indiana University have conferred upon

> Kai Zhen the degree of

Doctor of Philosophy

in recognition of the fulfillment of the requirements for this degree. In Mitness Mhereof, this diploma is given at Bloomington, Indiana, May 7, 2021.



Michael A. Makobbie Hresident Lauren K. Robel



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