

THE TRUSTEES OF
COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME GREETING
BE IT KNOWN THAT

SHUNAN LIU

HAVING COMPLETED THE STUDIES AND SATISFIED THE REQUIREMENTS
FOR THE DEGREE OF

MASTER OF SCIENCE

HAS ACCORDINGLY BEEN ADMITTED TO THAT DEGREE WITH ALL THE
RIGHTS PRIVILEGES AND IMMUNITIES THEREUNTO APPERTAINING IN
WITNESS WHEREOF WE HAVE CAUSED OUR CORPORATE SEAL TO BE HERE
AFFIXED IN THE CITY OF NEW YORK ON THE FOURTEENTH DAY OF FEBRUARY
IN THE YEAR TWO THOUSAND AND EIGHTEEN


DEAN OF THE FACULTY OF
PROFESSIONAL STUDIES




PRESIDENT