

# UNIVERSITY OF ALBERTA

*Certifies by this document to all whom it may concern that*

**YANG YU**

*having completed all the statutory requirements  
has been granted the degree of*

**MASTER OF SCIENCE**

**in Photonics and Plasmas**

**Department of Electrical and Computer Engineering**

*and awarded all the rights and privileges pertaining to this degree.*

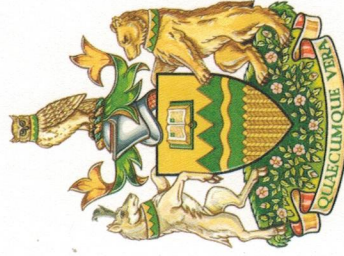
*Given at this university on the nineteenth day of November, two thousand and fourteen  
in the one hundred and eighth year of the University of Alberta.*

*Ralph R*

CHANCELLOR

*Deey Lee*

CHAIR OF THE BOARD



*Indira Samarasinghe*  
PRESIDENT

*Lisa M. Collins*  
REGISTRAR