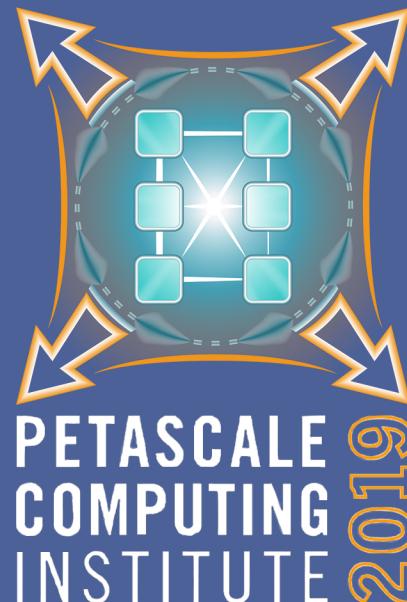


CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE IS PRESENTED TO

Ignasius Anugraha

*This is to certify that Ignasius Anugraha
has completed the Petascale Computing
Institute 2019 held August 19-23, 2019 at
the NCSA.*



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08-23-2019

Scott Lathrop

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PROGRAM MANAGER