



# SUNY POLYTECHNIC INSTITUTE

**SUNY Polytechnic Institute**  
**College of Nanoscale Science and Engineering**

The **dissertation** submitted by \_\_\_\_\_, under the title, \_\_\_\_\_  
" \_\_\_\_\_"  
has been read by the undersigned. It is hereby recommended for acceptance to the Faculty of the University in partial fulfillment of the requirements for the degree of Doctor of Philosophy.

### Dissertation Committee Members

<u>Printed Name</u>	<u>Signature</u>	<u>Date Approved</u>
		12/8/2022
(SUNY Poly Committee Member)		
		12/8/2022
(SUNY Poly Committee Member)		
	<i>Karsten Beckmann</i>	12/8/2022
(SUNY Poly Committee Member)		
	<i>Danett Rose</i>	12/8/22
(External Committee Member)		

*As chair of the student's dissertation committee, I confirm that all required edits have been made and the thesis document is accepted in final, approved condition.*

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(Dissertation Committee Chair) Date

Recommendation submitted on behalf of SUNY Polytechnic Institute College of Nanoscale Science and Engineering by:

J. Andres Melendez 12/09/2022

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Dean of College,  
SUNY Polytechnic Institute Date

Krista Thompson 12/12/2022

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Assistant Dean of Graduate  
Studies SUNY Polytechnic  
Institute Date