



Pacific Institute *for the*
Mathematical Sciences

PIMS - SUMMER LECTURE

ERIKA CAMACHO

Friday, July 26, 2019 - Earth Science Building, 2207 Main Mall

Reception: 2:30 - 3:00 pm - Room 4133

Lecture: 3:00 - 4:00 pm - Room 1013

USING MATHEMATICS TO HELP END BLINDNESS



Erika Camacho

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Abstract

Computer (in silico) experiments in this area have given researchers invaluable insights and in some cases re-directed experimental research and theory. With mathematics and in silico experiments we will explore the experimentally observed photoreceptor death and rescue in retinal degeneration and provide a framework for future physiological investigations and potential ways to circumvent blindness.

Biography

Dr. Erika T. Camacho grew up in East Los Angeles and was taught by Jaime Escalante at Garfield High School. She received her B.A. in Mathematics and Economics from Wellesley College. After earning her Ph.D. in applied mathematics at Cornell University, she spent a year as a researcher at Los Alamos National Laboratory. She then held a tenure-track faculty position at Loyola Marymount University before joining the faculty at ASU in 2007. She was the recipient of the 2014 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM) and was only the 4th female mathematician to have been bestowed this honor. She is also the recipient of the 2019 AAAS mentor award. She was a 2013-2014 MLK Visiting Assistant Professor of Mathematics at MIT. She co-founded the Applied Mathematical Sciences Summer Institute (AMSSI) and co-directed other summer programs dedicated to the recruitment of undergraduate women, underrepresented minorities, and those that might not otherwise have the opportunity.

This event is free, however, for logistical and catering purposes, registration is required:

WEBSITE: [HTTP://WWW.PIMS.MATH.CA/SCIENTIFIC-EVENT/190726-PSPLEC](http://www.pims.math.ca/scientific-event/190726-PSPLEC)



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