## Pumagrass October 30, 2020

# Speaker: Anlong Chua <br> Title: Positive polynomials and sums of squares 


#### Abstract

Is a positive (real) polynomial necessarily a sum of squares? The answer, given by Emil Artin in 1927, illustrates a surprising connection between logic and algebra. I will attempt to explain this concept and its generalization to the Positivestellensatz, which can be viewed as a real analogue of the famous Nullstellensatz.


