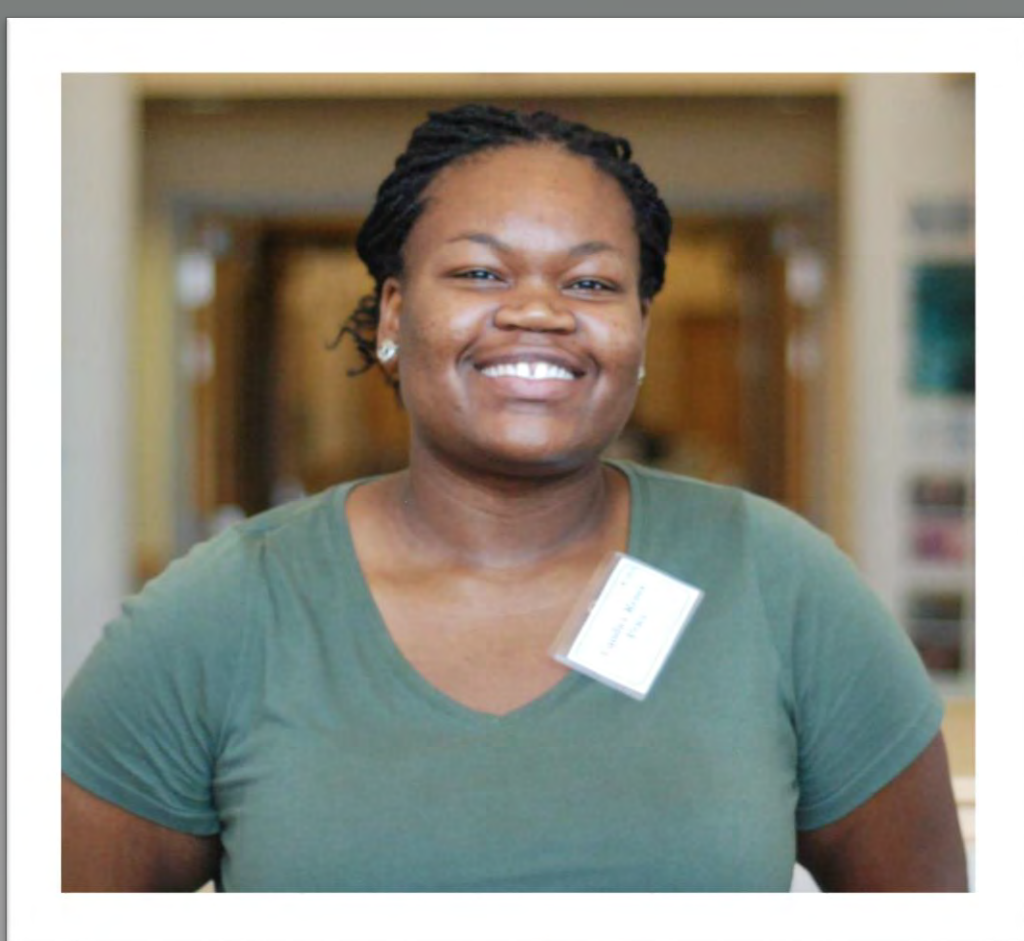


# MATHEMATICS SEMINAR

## APPLICATIONS OF KNOT THEORY: USING KNOT THEORY TO UNRAVEL BIOCHEMISTRY MYSTERIES

*Although knots have been used since the dawn of humanity, the mathematical study of knots is only a little over 100 years old. Not only has knot theory grown theoretically, the fields of physics, chemistry and molecular biology have provided many applications of mathematical knots.*

*In this talk, I provide an overview of some connections between knot theory and DNA-protein interaction, outlining specifics of the biological mechanisms of DNA replication while providing an overview of related knot invariants.*



**Candice Price, PhD.**  
Department of Mathematics  
University of San Diego

**FRIDAY, APRIL 14TH**

**3:30 PM – 4:30 PM**

**SEIDLER HALL 220**

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