

Department of Mathematics

University of Houston

# Analysis Seminar

**FRIDAY** **March 1, 2019**

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**13:00-14:00** – Room 646 PGH

**Speaker:** Brian Simanek (Baylor University)

**Title:** Blaschke Products, Numerical Ranges, and the Zeros of Orthogonal Polynomials

**Abstract:** Our main object of interest will be the location of zeros of orthogonal polynomials on the unit circle. After recalling some fundamental results, we will discuss more recent developments that relate these zeros to Blaschke products, numerical ranges of matrices, algebraic curves, and quadrature measures. Some open problems will be mentioned along the way.