

## Darren King

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CONTACT INFORMATION	Department of Mathematics The University of Texas at Austin 2515 Speedway, PMA 8.100 Austin, TX 78712	(508)216-6984 <a href="mailto:king@math.utexas.edu">king@math.utexas.edu</a> <a href="https://web.ma.utexas.edu/~king">https://web.ma.utexas.edu/~king</a>
CITIZENSHIP	Jamaican, American	
INTERESTS	Calculus of Variations, Geometric Measure Theory	
EDUCATION	<i>Ph.D. in Mathematics</i> The University of Texas at Austin Adviser: Prof. Francesco Maggi	2016–2021 (expected)
	<i>B.Sc. in Economics, Minor in International Relations</i> The University of the West Indies	2007–2010
PUBLICATIONS & PREPRINTS	<i>Smoothness of collapsed regions in a capillarity model for soap films</i> (with F. Maggi and S. Stuvard), submitted.  <i>Collapsing and the convex hull property in a soap film capillarity model</i> (with F. Maggi and S. Stuvard), accepted by Ann. Inst. H. Poincaré Anal. Non Linéaire.  <i>Plateau's problem as a singular limit of capillarity problems</i> (with F. Maggi and S. Stuvard), accepted by Comm. Pure. Appl. Math.	
INVITED TALKS	AMS Southeastern Sectional Meeting: Special Session on Nonlinear Elliptic PDE (November 2019)	
AWARDS	2016–2017     Mentoring Fellowship, College of Natural Sciences, UT Austin	
TEACHING & MENTORSHIP	Fall 2020     Teaching Assistant, Real Analysis Fall 2018     Teaching Assistant, Differential Equations with Linear Algebra Spring 2018     Teaching Assistant, Differential Equations with Linear Algebra Fall 2017     Teaching Assistant, Differential Calculus  Completed the <i>Concentration in Teaching and Mentoring</i> offered by the Texas Institute of Discovery Education in Science.  Mentored five undergraduate students (all from underrepresented minorities) as part of the Directed Reading Program of the Department of Mathematics at UT Austin.	