Logan Stokols, PhD Curriculum Vitae

PERSONAL DETAILS

UC Berkeley

$Department \\ Position \\ Advisor \\ Email \\ Website$	University of Texas at Austin Teaching Assistant Alexis Vasseur lstokols@math.utexas.edu ma.utexas.edu/users/lstokols		
EDUCATION	I		
PhD in Mathematics (University of Texas at Austin) Graduated spring 2020.			
BA in Mathematics (University of California at Berkeley) Graduated with Honors.			
PUBLICATIONS			
L ² -type Contract (L F Stokols) Preprint	tion of Viscous Shocks for Large Family of Scalar Conservation L	aws <u>2019</u>	
(L F Stokols, A Va	ty up to the Boundary for Critical SQG on Bounded Domains sseur) see for Rational Mechanics and Analysis	2019	
(L F Stokols)	ty for a Family of Nonlocal Hypoelliptic Kinetic Equations Journal on Mathematical Analysis	2018	
De Giorgi Method Applied to Hamilton-Jacobi Equations with Unbounded Right-Hand Side (L F Stokols, A Vasseur) Published in Communications in Mathematical Sciences			
On Structural Decompositions of Finite Frames (A Chan, M Copenhaver, S Narayan, L F Stokols, A Theobold) Published in Advances in Computational Mathematics			
AWARDS AN	ND HONORS		
Research and Training Grant (RTG) Fellowship $\underline{\text{UT Austin}}$			
Frank Gerth III Graduate Excellence Award $\underline{\text{UT Austin}}$			
Percy Lionel Davis Award for Excellence in Scholarship in Mathematics			

TALKS

N.B. Talks with dates struckthrough have been postponed due to the Covid-19 pandemic			
Atlanta, Georgia (Special Session on Nonlinear Models in Kinetic Theory, AIMS Conference on Dynamical Systems, Differential Equations and Applications)			
Purdue (Special Session on Analysis of PDE in Fluid Dynamics, AMS Sectional Meeting) April 2020 "Surface Quasigeostrophic Equation on Bounded Domains"			
$ \begin{array}{c} \textbf{University of Virginia} \ (Special \ Session \ on \ Nonlocal \ PDE, \ AMS \ Sectional \ Meeting) \ \dots \ \underline{\underline{\text{March-2020}}} \\ \text{"Surface Quasigeostrophic Equation on Bounded Domains"} \end{array} $			
Iowa State University (Computational and Applied Mathematics Seminar)			
University of Florida (Special Session on Fluid Dynamics, AMS Sectional Meeting) November 2019 "Surface Quasigeostrophic Equation (SQG) on Bounded Domains"			
Cetraro, Italy (CIME Summer School on Progress in Mathematical Fluid Dynamics) <u>June 2019</u> "SQG on Bounded Domains: continuity at the boundary"			
The University of Ohio (Contributed Talk, AMS Sectional Meeting)			
UT Austin (Candidacy Talk, Analysis Seminar)			
Baltimore, Maryland (Joint Mathematics Meeting)			

TEACHING

Teaching Assistant

Fall 2014-Spring 2019

Taught for 7 semesters in 5 years, including calculus 5 times, differential equations, and graduate functional analysis. Responsibilities included leading discussion sections 4 hours per week, grading homeworks and exams, holding office hours and proctoring exams. Have experience with "flipped classroom" approach.

DRP Reading Courses

Fall 2015 - Fall 2019

Mentored four different undergraduate students through one-on-one reading courses on undergraduate and early graduate level mathematics. Each course lasted between one semester and two years, culminating each semester in a public presentation at special undergraduate symposium.

Supplemental Instruction Leader

Spring 2018

Weekly collaboration with peer instructors and education specialists to discuss teaching methods in practice and theory. Emphasis on inclusive and collaborative learning strategies in calculus. Activities included teaching observations, reading and discussing modern pedagogical research, experimenting with and discussing specific unfamiliar teaching techniques, and soliciting in-depth student feedback.

Sanger Review

September 2018, December 2018

Led beginning- and end-of-semester calculus reviews, 6 hours each with \sim 20-50 students. Attended by students from many different classes with non-standardized curricula.

Inclusive Classrooms Leadership Certificate

November 2019

Participated in week-long seminar with discussions about strategies for developing and sustaining an inclusive classroom climate. Explored elements of course design and processes that can broaden the intellectual scopes of students.

OUTREACH AND SERVICE

Organizer: Directed Reading Program

Spring 2016 - Spring 2019

Ran program which paired UT math graduate students with motivated undergrads for a semester-long mentorship and reading course, the largest program of its kind in the country. Oversaw a significant expansion of the program ($\sim 50\%$ more participants), and worked with administrators to help secure funding and write grants related to the project. The program is dedicated to fostering diversity and equal opportunity within the mathematics community.

Graduate Student Assembly Representative

Fall 2018 - Spring 2020

Represented math department in biweekly meetings, disseminating information about programs and organizations to the graduate students and responding to their complaints and interests. GSA appropriates a ~\$60k budget per year and directs the administration to issues of concern for the graduate student body.

DRPN conference May 2018

Represented UT at conference to help other schools across the country create and maintain their own DRP programs. Led several group discussions.

Outreach Talk March 2016

Gave lecture entitled "An Ode to Holder's Inequality" to UT's undergraduate Math Club. Concentrated on how to think about functions from an abstract functional-analytic perspective, aimed at students with little background in analysis.

CONFERENCES

University of Florida
ICMAT June 2019 Summer School on Fluid Mechanics
Cetraro, Italy June 2019 CIME Summer School on Progress in Mathematical Fluid Dynamics
Penn State June 2018 XVII Inernational Conference on Hyperbolic Problems
MIT <u>May 2018</u> <u>DRP Workshop</u>
The University of Ohio
Northwestern University

University of Chicago	June 2017
Chicago Summer School in Analysis	
UC Berkeley	May 2017
Calculus of Variations and Nonlinear Partial Differential Equ	ations
ICERM	January 2017
Current Developments in Mathematical Fluid Dynamics	
Fields Institute	Summer 2016
Focus Program on Nonlocal PDE	
University of Minho, Portugal	December 2015
Particle Systems ad PDEs IV	
San Antonio, Texas	January 2015
Joint Mathematics Meeting	
Baltimore, Maryland	January 2014
Joint Mathematics Meeting	