Betul Orcan-Ekmekci

Curriculum Vitae

	Rice University Department of Mathematic 6100 Main St, Houston, TX 77005	Voice: (512) 590 4452(Cell) s E-mail: orcan@rice.edu Webpage: http://math.rice.edu/ ~ bo2/	
Academic Positions	2019-	Assistant Teaching Professor Rice University, Houston, Texas USA	
	2014-2019	Instructor Rice University, Houston, Texas USA	
	Summer '16,'17,'18,'19	Instructor of Mathematics Rice Emerging Scholars Program	
	Summer '16,'17	Instructor of Mathematics Rice Excellence in Math Instruction	
	Summer '15	Visiting Instructor of Mathematics Middle East Technical University, Ankara, TR	
	2011-2014	G.C. Evans Instructor Rice University, Houston, Texas USA	
	2011 (Spring)	Postdoctoral Fellow MSRI, Berkeley, California USA Free Boundary Problems, Theory and Applications	
	2008 (Fall)	Assistant Instructor University of Texas at Austin, Austin, Texas USA	
Education	December 2010 Ph.D. Unive	Mathematics ersity of Texas at Austin, or: Prof. Luis Caffarolli	
	May 2005 M.S., Boga	Mathematics zici (Bosphorus) University	
	May 2003 B.S., Boga	mathematics zici (Bosphorus) University	
Grants	2019 Co-PI of Ja 2019 Co-PI of NS 2012-2014 AMS-Simon	mes S. McDonnell Fdn grant "Teachers as Learners" (Under Review) SF grant "Impact of Noyce on Teacher Retention" (Under Review) s Travel Grant	

Awards	Fall 2009Pr2006Do2005Do	rofessional Development Award, UT-Austin avid Bruton jr. Fellowship, UT-Austin eans Excellence Fellowship, UT-Austin		
Research Interests	Nonlinear Partial Differential Equations, Free Boundary Problems and Applications, Ho- mogenization Problems in Periodic and Stationary Ergodic Cases, Geometric Variational Problems in Random Media, Fluid Dynamics.			
Publications	 B. Orcan-Ekmekci, On the Largest Subsolution for a Free Boundary Problem in R²: Elliptic Case, Calculus of Variations and Partial Differential Equations, March 2014, Volume 49, Issue 3 - 4, pp 937 - 962. 			
	 V. Hoang, B. Orcan-Ekmekci, M. Radosz, and H. Yang, Blowup with vorticity control for a 2D model of the Boussinesq equation, <i>Journal of Differential Equations, June</i> 2018, Volume 264, Issue 12, pp 7328 - 7356. 			
	3. B. Orcan-l tionary Er	Ekmekci, Homogenization results for a Free Boundary problem with Sta- godic Free Boundary in \mathbf{R}^2 : In the Form of Layers, <i>Submitted</i>		
	4. B. Orcan-l tionary Er	Ekmekci, Homogenization results for a Free Boundary problem with Sta- godic Free Boundary in \mathbf{R}^2 : Elliptic Case, <i>Preprint</i>		
	5. R. Hardt Preprint	, and B. Orcan-Ekmekci, On the highly oscillatory Plateau problem,		
	6. B. Orcan Equation v	-Ekmekci, Optimal Regularity Results for Parabolic Integro-Differential with Obstacle, <i>Preprint</i>		
Conference Talks	Sep 2019 May 2019 Apr 2019 Oct 2, 2015 June 17, 2013 May 28-31, 2 December 7, January 12, 2 May 11, 2012 April 30, 201 April 10, 201 January 15, 2 April 29, 200	 AMS Fall Central Sectional Meeting, Madison, WI Topics in Geometric Analysis, 2019 IAS-WAM, Princeton, NJ AWM Research Symposium 2019, Houston, TX IOU AIDA Joint Workshop at Schlumberger, Houston, TX Webinar talk for Schlumberger Mathematics Community, Houston, TX Special Workshop for Women in Analysis and PDE, IMA, Twin Cities, MN 2013 2013 SIAM PDE, Lake Buena Vista, FL 2013 2013 AMS and MAA Joint Mathematics Meetings, San Diego, CA Young Women in PDE, Bonn, Germany AMS Spring Western Section Meeting, Las Vegas, NV 0 33rd Annual Texas PDE Conference, Austin, TX 2010 2010 AMS and MAA Joint Mathematics Meetings, San Francisco, CA Symposia on Analysis of Geometric Evolution, Austin, TX 		
Seminar Talks	Fall 2012 6 Sp 2012 A Fall 2011 F Fall 2011 C Sp 2011 F Fall 2007 C	Geometry-Analysis Seminar- Rice University Analysis Seminar-UT-Austin PDE Seminar- University of Houston Geometry-Analysis Seminar- Rice University PDE Seminar- University of California-Berkeley Continuum Mechanics Seminar Austin, TX		

Service	2018-	Faculty Associate of Duncan College
	Fall '19-	Differential Equations and Linear Algebra (Math 211) course coordinator
	Fall '19-	Undergraduate Committee member
	Summer '19-	Teaching Mentor for Instructors and graduate students at Mathematics Dept
	F11, Sp12, '	19 Co-organizer of Graduate Teaching Seminar at Rice University
	Fall '18-	Diversity Committee member
	Apr 2019	Organizer of a session at AWM Research Symposium 2019 at Rice University
	2018-	Co-organizer of Mathematical Perspectives for Prospectives at Rice University
	Sep 2018	Presenter at Katy Math Circle at Texas
	Aug 2018	Reviewer at CONACYT Collaborative Research Grants at UT System
	Oct 2015	Panelist at Academic Fellows and Mentors Meeting at Rice University
	Dec 2013	Co-organizer of a mini-lecture series at SIAM PDE 2013, FL
	Nov 2012	Panelist in careers in the Mathematical Sciences at Rice AWM event
	Fall'12	Co-organizer of Minimal Surfaces Seminar at Rice University
	Fall'12	Co-organizer of Current Mathematics Seminar at Rice University
	$\mathbf{Sp'12}$	Co-organizer of Stochastic Differential Equations Seminar at Rice University
	Fall'11	Co-organizer of Multi-valued Functions Seminar at Rice University
Superaistic	Fall 2019	Participant of Center for Teaching in Excellence Reading Group
Activities	May 2019	Selected participant of "Topics in Geometric Analysis," IAS-WAM, Princeton, NJ
1100000000	May 2019	Selected participant of "Active Learning for Busy Skeptics" Workshop, UT-Austin
	'17,'18,'19	Invited faculty sponsor for "Pancakes for Parkinson"
	Mar 2019	Participant of CTE workshop: Inclusive Teaching Practices
	Sp 2019	Participant of Center for Teaching in Excellence Reading Group
	Jan 2019	Participant of 6th Annual Symposium on Teaching & Learning
	Feb 2018	Panelist at 'Why Does My Teacher Suck? ' at Rice University
	Jan 2018	Participant of 5th Annual Symposium on Teaching & Learning
	Sp 2018	Selected participant of CTE Teaching & Innovation Colloquy
Teaching	Rice Universi	$\mathbf{t}\mathbf{y}$

Teaching Experience

Graduate Level Courses:

Math 517- Complex Analysis Math 515- Integration Theory Math 423- Partial Differential Equations

Undergraduate Research:

Spring 2020 - Supervised-Reading Course on PDEs Summer 2019 - 8 week program on PDEs and geometric properties of fluid dynamics Spring 2019 - Supervised-Reading Course on Convex Analysis

Undergraduate Courses:

Math 382 - Complex Analysis Math 212-Multi Variable Calculus Math 211-Ordinary Differential equations Math 111- Fundamental Theorem of Calculus Math 102 - Single Variable Calculus II Math 101 - Single Variable Calculus I

UT-Austin-Assistant Instructor

Math 305- Elementary Functions and Coordinate Geometry-2 sections

UT-Austin-Teaching Assistant

Graduate Level Courses:

Methods of Applied Mathematics Stochastic Processes and Applications Real Analysis(2 semesters)

Undergraduate Courses:

Applied Linear AlgebraScientific Computation in Numerical AnalysisAdvanced Calculus for ApplicationsMethods of Applied Mathematics

Bogazici University-Teaching Assistant

2003-2005 Ordinary Differential Equations, Real Analysis I, and Real Analysis II