Curriculum Vitae

Betul Orcan-Ekmekci

	Rice University Department of Mathematics 6100 Main St, Houston, TX 77005	Voice: (512) 590 4452 E-mail: orcan@rice.edu WebPage: http://math.rice.edu/	$^{\prime}\sim$ bo2/	
Academic Positions	Rice University, Houston, Texas USA			
1 03660163	G.C. Evans Instructor		Fall 2011-Current	
	\mathbf{MSRI} , Berkeley, California USA	Α		
	Postdoctoral Fellow Spring 2011 Free Boundary Problems, Theory and Applications Spring 2011			
	University of Texas at Austi	${\bf n}$, Austin, Texas USA		
	Teaching Assistant	2010 a	and Fall 2005- Spring 2008	
	Assistant Instructor		Fall 2008	
	Research Assistant		2009	
	Bogazici (Bosphorus) University, , Istanbul, TURKEY			
	Teaching Assistant		2003-2005	
Education	University of Texas at Austin , Austin, Texas, USA			
	Ph.D. Mathematics, December 2010			
	Advisor: Prof. Luis Caffarelli Dissertation Title: About the Largest Subsolution for a Free Boundary Problem in \mathbb{R}^2 : Elliptic Case			
	Bogazici (Bosphorus) University, , Istanbul, TURKEY			
	M.S., Mathematics, May 2005			
	Advisor: Prof. Alp O. Eden			
	Thesis Title: Some Fixed Point Theorems with some Applications to Differential Equations			
	Bogazici (Bosphorus) University, , Istanbul, TURKEY			
	B.S., Mathematics, May 2003			
Grants	AMS-Simons Travel Grant		2012-2014	
Awards	University of Texas at Austin , Austin, Texas USA			
	Professional Development Au	ard	Fall 2009	
	David Bruton jr. Fellowship	Sprin	ng 2006 and Summer 2006	
	Deans Excellence Fellowship		Fall 2005 and Spring 2006	

Research Interests	Partial Differential Equations, Free Boundary Problems and Applications, Homogenization Problems in Periodic and Stationary Ergodic Cases, Geometric Variational Problems in Random Media		
Papers & Preprints	 B. Orcan-Ekmekci, On the Largest Subsolution for a Free Boundary Problem in R²: Elliptic Case, accepted to Calculus of Variations and Partial Differential Equations 		
	2. B. Orcan-Ekmekci, Homogenization results for a Free Boundary problem with Stationary Er- godic Free Boundary in R ² : In the Form of Layers, <i>Submitted</i>		
	3. L. Caffarelli, R. Hardt, and B. Orcan-Ekmekci, On the highly osc Preprint	cillatory Plateau problem,	
	4. A. Mellet, and B. Orcan-Ekmekci, Capillary Drop Motion on a Rand Preprint	om Inhomogeneous Plane,	
	5. B. Orcan-Ekmekci, Optimal Regularity Results for Parabolic Integro-Differential Equation with Obstacle, <i>Preprint</i>		
	Electronic versions of my papers are available at http://math.rice.edu/ $\sim {\rm bo2/}$.		
Academic Talks	2013 AMS and MAA Joint Mathematics Meetings, San Diego, California USA		
in Conferences	Talk at AMS Session on Ergodic Theory, Dynamics, and Harmonic Analysis January 12, 2012		
	Young Women in PDE, Bonn, Germany		
	Contributed Talk	May 11, 2012	
	On Geometry and Regularity Properties of Viscosity Solutions for Free Boundary Problems		
	AMS Spring Western Section Meeting, Las Vegas, Nevada, USA		
	Invited Speaker at Special Session on Geometric Analysis	April 30, 2011	
	On Geometry and Non-Degeneracy of Largest Subsolutions for Free Boundary Problems		
	33rd Annual Texas Partial Differential Equations Conference, Austin, Texas USA		
	On the Regularity of Integral Variational Obstacle Problems	April 10, 2010	
	2010 AMS and MAA Joint Mathematics Meetings, San Francisco, California USA		
	Talk at AMS Session on Differential and Difference Equation	January 15, 2010	
	Homogenization of the Laplace Equation with Oscillating Stationary Ergodic Free Boundary		
	Abstract:http://www.ams.org/amsmtgs/2124_abstracts/1056-35-1793.pdf		
	SAGE: Symposia on Analysis of Geometric Evolution, Austin, Texas USA		
	Flame Propagation and Homogenization http://www.ma.utexas.edu/users/danknopf/SAGE08.htm	April 29, 2008	
	Continuum Mechanics Seminar, University of Texas at Austin, Austin, Texas USA		
	Existence results for Navier-Stokes equations	October 19, 2007	
	Fundamental Equations for the Newtonian Fluids	October 17, 2007	

Academic Talks in	Geometry-Analysis Seminar- Rice University	Fall 2012		
Department	Analysis Seminar-University of Texas at Austin	Spring2012		
Seminars	PDE Seminar- University of Houston	Fall 2011		
	Geometry-Analysis Seminar- Rice University	Fall 2011		
	PDE Seminar- University of California-Berkeley	Spring 2011		
Service	Panelist in careers in the Mathematical Sciences at Rice AWM event	Nov 2012		
	Co-organizer of Minimal Surfaces Seminar	Fall 2012		
	Co-organizer of Current Mathematics Seminar	Fall 2012		
	Co-organizer of Graduate Teaching Seminar	Fall 2011-Spring 2012		
	Co-organizer of Stochastic Differential Equations Seminar	Spring 2012		
	Co-organizer of Multi-valued Functions Seminar	Fall 2011		
•	Rice University - Instructor			
Experience	Math 423- Partial Differential Equations (Upper & Graduate Level) Math 111- Fundamental Theorem of Calculus Math 382 - Complex Analysis (Upper Level) Math 102 - Single Variable Calculus II Math 111- Fundamental Theorem of Calculus	Fall 2012 Fall 2012 Spring 2012 Spring 2012 Fall 2011		
	University of Texas at Austin			
	Assistant Instructor			
	Math 305- Elementary Functions and Coordinate Geometry-2 secti	ions Fall 2008		
	Teaching Assistant			
	• <i>Graduate Level Courses</i> : Methods of Applied Mathematics, Stochastic Processes and Applications, and Real Analysis(2 semesters)			
	 Upper Level Courses : Applied Linear Algebra, Scientific Computation in Numerical Analysis, Advanced Calculus for Applications, and Methods of Applied Mathematics Lower Level Courses : Differential and Integral Calculus 			
	Bogazici (Bosphorus) University - Teaching Assistant	2003-2005		
	Upper Level Courses: Ordinary Differential Equations, Real Analysis	I, and Real Analysis II		
References	Professor Luis Caffarelli: University of Texas at Austin, E-mail: caf	farel@math.utexas.edu		
	Professor Robert Hardt: Rice University, E-mail: hardt@rice.edu			
	Professor Ovidiu Savin: Columbia University, E-mail: savin@math.columbia.edu			
	Professor Michael Wolf: Rice University, E-mail: mwolf@math.rice.edu			
	Professor Tim D. Cochran: Rice University, E-mail: cochran@rice.edu (Teaching Mentor)			