Paul McKenney

Contact Information	Department of Mathematical Sciences Carnegie Mellon University 5000 Forbes Avenue Pittsburgh, Pennsylvania 15213 USA	pmckenne@andrew.cmu.edu (864) 275-2606 http://www.math.cmu.edu/~pmckenne/			
Research Interests	Combinatorial set theory and its applications to operator algebras – especially forc- ing axioms and principles that hold in the constructible universe, and their various influences on corona algebras and ultrapowers of C*-algebras.				
Education	Carnegie Mellon University				
	 Ph.D. Candidate, Mathematics (expected Dissertation Topic: Set theory and con Advisor: Ernest Schimmerling B.S. in Mathematics and Computer Scient Minor in Physics 	l May 2013) rona algebras nce, May 2008			
Publications	Endomorphisms of the Calkin Algebra. In preparation.				
	Reduced products of UHF algebras under forcing axioms. Submitted, available at arXiv:1303.5037 [math.LO].				
	Homeomorphisms of Čech-Stone remainders: the zero-dimensional case (with I. Farah). Submitted, available at arXiv:1211.4765 [math.LO].				
	Some Calkin algebras have outer automorphisms (with I. Farah and E. Schimmerling). Accepted for publication in the Archive for Mathematical Logic.				
Workshop and conference talks	Automorphisms of corona algebras, workshop on applications to operator algebras, the Fields Institute for Research in Mathematical Sciences. (September 2012)				
	Automorphisms of Calkin algebras, set theory seminar, the Fields Institute for Research in Mathematical Sciences. (March 2012)				
Seminar talks	Forcing axioms and rigidity of corona algebras I, II, and II, logic seminar, Carnegie Mellon University. (March 2013)				
	Definable automorphisms of $\mathscr{P}(\omega)/fin$, student set theory and topology seminar, the University of Toronto. (October 2012)				
	Automorphisms of Calkin algebras, sogic seminar, Carnegie Mellon University. (February 2012)				
	Automorphisms of $\mathscr{P}(\omega)/fin \ I \ and \ II$, logic seminar, Carnegie Mellon University. (September 2010)				
	C^* -algebras and set theory I-V, logic semina February 2010)	r, Carnegie Mellon University. (January –			

Extended Professional Travel	Fall Fall	2012 2009	Thematic Program on Forcing and its Applications, the Fields In- stitute, Toronto, Canada Semester on Model Theory and Set Theory, Institute Mittag- Leffler, Stockholm, Sweden
Other Skills	Programming experience in $C/C++$, Perl, SML		
Teaching	Spring	2013	Teaching Assistant, Vector Analysis
Experience	Summer	2012	Lecturer, Matrices and Linear Transformations
	Fall	2011	Teaching Assistant, Matrix Theory
	Fall	2011	Grader, Measure and Integration
	Spring	2011	Teaching Assistant, Analysis II
	Spring	2011	Grader, Principles of Real Analysis II
	Fall	2010	Teaching Assistant, Analysis I
	Fall	2010	Grader, Measure and Integration
	Summer	2009	Lecturer, Calculus II
	Spring	2009	Teaching Assistant, Matrix Algebra
	Fall	2008	Teaching Assistant, Calculus II
		2006-	Tutor in Mathematics and Computer Science
		2008	

Automorphisms of the Calkin algebra, Institut Mittag-Leffler. (September 2009)