Leonel R. Robert Gonzalez

Contact INFORMATION	Department of Mathematics University of Louisiana at Lafayette Lafayette, LA 70504-1010 USA			
	Phone (office): 337-482-6772 Cell: 337-414-9545 Email: Irobert@louisiana.edu			
Personal INFORMATION	Born May 5, 1975, Camagüey, Cuba. Citizen of Canada.			
EDUCATION	Ph.D. in Mathematics, University of Toronto (2006) M.Sc. in Mathematics, University of Havana (2001) B.Sc. in Mathematics, University of Havana (1998)			
Employment	Aug. 2016-presentAssociate Professor, University of Louisiana at LafayetteAug. 2011-May 2016Assistant Professor, University of Louisiana at LafayetteSept. 2010-July 2011Postdoc, University of CopenhagenSept. 2008-August 2010Postdoc , York UniversityAug. 2006-Aug. 2008NSERC Postdoc, The Fields Institute			
Scholarships and awards	NSERC Postdoctoral Fellowship (2006-2008) Blythe Fellowship, University of Toronto (2006) DeLury Teaching Award, University of Toronto (2005) University of Toronto Scholarship (2001-2005)			
Research interests	Operator algebras; classification and structure of C*-algebras.			
PUBLICATIONS	 R. Archbold, L. Robert, A. Tikuisis, The Dixmier property and tracial states for C*-algebras, J. Funct. Anal., 273 (2017), no. 8, 2655–2718. L. Robert, Normal subgroups of invertibles and of unitaries in a C*-algebra, J. reine angew. Math. DOI: 10.1515/crelle-2017-0020 (to appear). 			
	3. P. W. Ng, L. Robert, P. Skoufranis, Majorization in C [*] -algebras, Trans. of the Amer. Math. Soc. DOI: https://doi.org/10.1090/tran/7163 (to appear).			
	 On the Lie ideals of C*-algebras, J. Operator Theory 75 (2016), no. 2, 387–408. 			
	 Nuclear dimension and Z-stability of non-simple C*-algebras, with A. Tikuisis Trans. of the Amer. Math. Soc., 369 (2017) 4631-4670. 			
	 Sums of commutators in pure C*-algebras, with P. W. Ng., Münster J. of Math. 9 (2016) 121-154. 			
	 The kernel of the determinant map on pure C*-algebras, with P. W. Ng, Houston J. Math. Vol. 43, No. 1 (2017) 139-168. 			
	8. Remarks on Z -stable projectionless C*-algebras, Glasgow Mathematical Journal, 58 (2016) 273-277.			

- 9. *Nuclear dimension and sums of commutators*, Indiana Univ. Math. J. 64 (2015) 559 - 576.
- 10. *Similarity of perturbations of the shift and a different product of rational functions*, Operators and Matrices, 8 (2014), no. 1, 89–98.
- 11. *The Cuntz semigroup of some spaces of dimension at most two*, C. R. Math. Acad. Sci. Soc. R. Can., 35 (2013), no. 1, 22–32.
- 12. *Divisibility properties for C*-algebras*, with M. Rørdam, Proceedings of the London Mathematical Society, (2013) 106 (6): 1330-1370.
- 13. *The cone of functionals on the Cuntz semigroup*, Mathematica Scandinavica, 113 (2013), No 2, 161–186.
- 14. *Classification of inductive limits of 1-dimensional NCCW complexes*, Advances in Mathematics, 231 (2012), no. 5, 2802–2836.
- An algebraic approach to the radius of comparison, with B. Blackadar, A. Tikuisis, A. Toms, and W. Winter, Transactions of the American Mathematical Society, 364 (2012), no. 7, 3657–3674.
- 16. *Nuclear dimension and n-comparison*, Münster Journal of Mathematics, 4 (2011), 65–72.
- 17. *Hilbert C*-modules over commutative C*-algebras*, with Aaron Tikuisis, Proceedings of the London Mathematical Society, 102 (2011), 229–256.
- 18. The cone of lower semicontinuous traces of a C*-algebra, with G. A. Elliott and L. Santiago,

American Journal of Mathematics, Vol 133 (2011), no 4, 969–1005.

- 19. Classification of C*-homomorphisms from $C_0(0, 1]$ to a C*-algebra, with L. Santiago, Journal of Functional Analysis 258, (2010), no. 3, 869–892.
- The Cuntz semigroup of ideals and quotients and a generalized Kasparov Stabilization Theorem, with A. Ciuperca and L. Santiago, Journal of Operator Theory, Vol 64 (2010), no. 1, 155–169.
- 21. On the comparison of positive elements of a C*-algebra by lower semicontinuous traces, Indiana University Mathematics Journal, 58 (2009), no. 6, 2509–2515.
- Expanding maps of the circle rerevisited: Positive Lyapunov exponents in a rich family, with E. Pujals and M. Shub, Ergodic Theory and Dynamical Systems, Vol. 26 (2006), 1931–1937.
- 23. *Similarity of perturbations of Hessenberg matrices*, Journal of Operator Theory, Vol. 54 (2005), no. 1, 125–136.
- 24. *Figures of constant width on a chessboard*, with J. Hernández, American Mathematical Monthly, 112, no. 1 (2005), 42–50.
- 25. On a class of Sobolev scalar products, with L. Santiago, Journal of Approximation Theory, 125 (2003), no. 2, 169–189.
- 26. *The finite sections method for Hessenberg matrices*, with L. Santiago, Journal of Approximation Theory 123 (2003), no. 1, 69–88.

SUBMITTED AND IN PREPARATION

- 1. *Model Theory of nuclear C*-algebras*, with I. Farah, B. Hart, M. Lupini, A. Tikusis, A. Vignati, and W. Winter (submitted).
- 2. *Maximally unitarily mixed states on a C*-algebra*, with R. Archbold, A. Tikuisis (submitted).
 - 3. The extended Cuntz semigroup revisited, with L. Santiago (in preparation).

	 Techniques in C*-algebras, with G. A. Elliott. Book in preparation, under contract with Springer, aimed at their GTM series. 		
GRANTS	Agency: Simons Foundation Program: Collaboration Grant for Mathematicians Title: Dixmier sets of C*-algebras and their duals. Amount: \$42000		
	Duration: Sep. 1, 2017–Aug. 31, 2022		
	Agency: Board of Regents of the State of Louisiana Title: The Cuntz Semigroup and the Classification of C*-algebras Amount: \$79,392 Duration: June 1, 2012–June 30, 2015		
	Agency: NSF, Conferences and Workshops in the Mathematical Sciences Role: Co-Pi Conference title: Fifteenth East Coast Operator Algebras Symposium.		
	Amount: \$2800 Duration: Oct 7–8, 2017.		
	Agency: NSF, Conferences and Workshops in the Mathematical Sciences Role: Co-Pi		
	Conference title: Classification of C*-algebras, flow equivalence of shift spaces, and graph and Leavitt path algebras. Amount: \$40,610 Duration: May 11–15, 2015.		
Visiting positions	1. Centre de Recerca Matematica, Barcelona, Mar. 11–Mar 25, 2017.		
	2. Mittag-Leffler Institute, Feb. 15–Mar. 13, 2016.		
	3. Fields Institute, May 26–Jun. 28, 2013		
	4. Fields Institute, Jun. 23–Jul. 6, 2012		
	5. Centre de Recerca Matematica, Barcelona, Jun. 1–Jun. 30, 2011		
	6. University of Nottingham, Apr 27–Mar. 1, 2011		
	7. Centre de Recerca Matematica, Barcelona, May 15-May 30, 2010		
Conference talks	1. International Workshop on Operator Theory and Applications, East China Normal University, Shanghai. July 23-27, 2018 (upcoming). Invited speaker.		
	 Future Targets in the Classification Program for Amenable C*-algebras, Banff, Sep. 3– Sep. 8, 2017. Invited speaker. 		
	 2nd Mathematical Congress of the Americas, Classification of amenable C*-algebras Session, Montreal, Jul. 24–28, 2017. Invited speaker. 		
	 Operator Algebras and Dynamical Systems, Centre de Recerca Matematica, Barcelona, Mar. 20–24, 2017. Invited speaker. 		
	 Workshop Classification and dynamical systems I: C*-algebras, Mittag-Leffler Institute, Feb. 22–26, 2016. Invited speaker. 		
	 International conference on C*-algebras and Dynamical systems		
	 Dynamics and C*-algebras: amenability and soficity, Banff, Canada, Oct. 20–24, 2014. Invited speaker. 		

- 8. East Coast Operator Algebras Symposium, Fields Institute, Oct. 11–Oct 12, 2014. Invited speaker.
- 9. Canadian Operator Algebras Symposium, Toronto, May 27–May 31, 2013. Invited speaker.
- The structure and classification of nuclear C*-algebras, ICMS, Edinburgh, Apr. 15–Apr. 19, 2013. Invited speaker.
- 11. C*-Algebras, Dynamics, and Classification, Oberwolfach Workshop, Oct. 28–Nov. 3, 2012. Invited participant.
- 12. Canadian Mathematical Society, 2011 Winter Meeting, Operator Algebras session, Ryerson and York University, Dec. 10–12, 2011. Invited speaker.
- 13. East Coast Operator Algebras Symposium, Purdue University, Oct. 15–16, 2011. Invited speaker.
- 14. Conference on Structure and Classification of C*-Algebras, Universitat Autonoma de Barcelona, June 6–10, 2011. Invited speaker.
- 15. Classification of amenable C*-algebras, Banff International Research Station, Sept. 19– 24, 2010. Invited speaker.
- 16. Workshop on C*-algebras, University of Nottingham, Sept. 7–10, 2010. Invited speaker.
- 17. Masterclass on the Classification of C*-algebras, Copenhagen, Nov. 16–27, 2009. Invited speaker.
- AMS Sectional Meeting, Fall Western Section Meeting, Riverside, Nov. 7–8, 2009. Contributed talk.
- 19. Cuntz semigroup Workshop, American Institute of Mathematics, Palo Alto, Nov. 2–6, 2009. Invited speaker.
- 20. Canadian Mathematical Society Summer Meeting, St. John's, June 6–8, 2009. Contributed talk.
- 21. 7th Annual Workshop in Topology, Nipissing University, May 18–22, 2009. Invited speaker.
- 22. Second Canada-France Congress, Montreal, Jun. 1–6, 2008. Contributed talk.
- 23. 36th Canadian Operator Symposium, University of Toronto, May 20–24, 2008. Contributed talk.
- 24. Workshop on Structure of C*-Algebras, Fields Institute, Nov. 12–16, 2007. Contributed talk.
- 25. 35th Canadian Operator Symposium, University of Guelph, Jun. 5–9, 2007. Contributed talk.
- 26. Functional Analysis and Operator Algebra Symposium, Saint John, Oct. 15–17, 2004. Contributed talk.
- "Classification by the Cuntz semigroup", 4x40min lectures part of the "3rd Summer school in Operator Algebras and Noncommutative Geometry", Shijiazhaung, China, June 26–July 1.
 - 2. Mini-course "Pure C*-algebras", 3x1hr lectures, Jilin University, China, Jul. 4–Jul. 9, 2015.
 - 3. "Introductin to the Jiang-Su algebra", Intensive mini-course in Operator Algebras, 3x1hr lectures, Fields Institute, Dec. 8–9, 2011.

LECTURE SERIES

Conferences co-organized	1. Fifteenth East Coast Operator Algebras Symposium, University of Louisiana at Lafayette, Oct. 7–8, 2017.			
	 Classification of C*-algebras, Flow equivalence, and Graph and Leavitt path algebras, University of Louisiana at Lafayette, May 11–15, 2015. 			
	 Topological and algebraic regularity properties of nuclear C*-algebras (NSF/CBMS Regional Conference), University of Louisiana at Lafayette, May 11–15, 2012. 			
	4. Masterclass on nuclear dimension, University of Copenhagen, Nov. 14–18, 2011.			
TEACHING	<i>At the University</i> Fall 2016	of Louisiana at Lafayette: Calculus I MATH 270		
	Spring 2016	Real and functional analysis MATH 573 (graduate course) Complex Analysis MATH 576 (graduate course) Introduction to analysis (independent study)		
	Fall 2015	Calculus III MATH 302		
	Spring 2015	Complex Analysis MATH 375 (graduate course) Calculus I MATH 270 Advanced Calculus MATH 494		
	Fall 2014	Calculus I MATH 270		
		Transition to Advanced Mathematics MATH 360		
		Introduction to C*-algebras MATH 677		
	Summer 2014	Calculus I MATH 270		
	Spring 2014	Real and functional analysis MATH 574 (graduate course)		
	Fall 2013	Real and functional analysis MATH 573 (graduate course)		
		Calculus MATH 270		
	Spring 2013	Complex Analysis MATH 576 (graduate course)		
		Graph theory & Calculus on Manifolds (independent studies)		
	Fall 2012	Survey of Calculus MATH 550 Complex Applysic MATH 575 (graduate course)		
		Complex Analysis MATH 575 (graduale course) Continued fractions HONB 499 (honors research)		
	Spring 2012	Number theory MATH 463		
	-1- 5 -	Real and functional analysis MATH 574 (graduate course)		
	Fall 2011	Survey of Calculus MATH 250		
		Real and functional analysis MATH 573 (graduate course)		
	At the University of Copenhagen:			
	Spring 2011 Int	troduction to K-theory (TA)		
	Fail 2010 Op	oment problems (TA)		
	At Vork University:			
	Spring 2010 Calculus MATH 1013 (TA)			
	Fall 2009 Su	ubstitute instructor for Calculus		
	Su	ubstitute instructor for Functional Analysis (Graduate course)		
	At the University of Toronto:			
	Fall 2007 Ca	Iculus for Engineering Science (instructor and course coordinator)		
	2005–2006 Ca	Iculus and Linear Algebra (TA)		
	2004-2005 CO 2003-2004 Ca	Inplex Analysis and neal Analysis (TA) Inplus (TA)		
	2002–2003 Ca	Iculus and Abstract Concepts in Mathematics (TA)		
	2001–2002 Ca	Iculus and Abstract Concepts in Mathematics and Linear Algebra (TA)		

- OTHER 1. Referee for Transactions of the American Mathematical Society, Journal of Functional SERVICES Analysis, Proceedings of the London Mathematical Society, Mathematica Scandinavica, Journal of Operator Theory.
 - 2. Co-organizer of the Functional Analysis Seminar, UL Lafayette, 2011-present.
 - 3. Co-organizer of the Math Club, UL Lafayette, 2011–present.
 - 4. W. L. Putnam competition coaching at UL Lafayette, 2016.
 - 5. Organizer of the Geometry and Functional Analysis Seminar, York University, 2008–2010.
 - 6. Math Mentor, U of T Mentorship Program for high school students, 2001–2007.
 - 7. Math Mentor and Coordinator, U of T Mentorship Program for high school students, 2002–2006.
 - 8. Co-organizer of the Graduate Student Seminar, U of T, 2001–2003.
- LANGUAGES English (fluent), Spanish (native).