

PROFESSIONAL PROFILE 2016

1. RESEARCH

1.1. Papers.

- (1) (with Narutaka Ozawa) *A characterization of completely one-complemented subspaces of noncommutative L_1 -spaces*, Pacific Journal of Mathematics, volume 205, no 1, (2002), 171-195.
- (2) (with Takahiro Sudo) *On the stable rank of algebras of operator fields over an N -cube*. Bulletin of the London Mathematical Society (2004), 36:3; 358-364.
- (3) (with Takahiro Sudo) *On the stable rank of algebras of operator fields over a metric space*. Journal of Functional Analysis, 220 (2005), 228-236.
- (4) (with Dan Kucerovsky) *Infinite stable rank for a continuous field algebra with fibres being K* . Journal of Operator Theory, vol. 54, no. 2, (2005), 379-388.
- (5) (with Dan Kucerovsky) *Decomposition rank and absorbing extensions of type I C^* -algebras*. Journal of Functional Analysis, 221 (2005) 25-36.
- (6) *Simple real rank zero algebras with locally Hausdorff spectrum*. Proceedings of the American Mathematical Society, 134, (2006), 2223-2228.
- (7) (with Dan Kucerovsky) *An abstract Pimsner-Popa-Voiculescu Theorem*. Journal of Operator Theory, 55, (2006), 1, 169-183.
- (8) (with Dan Kucerovsky) *The corona factorization property, and approximate unitary equivalence*. Houston Journal of Mathematics. 32, (2006), no. 2, 531-550.
- (9) *The corona factorization property*. In "Operator Theory, Operator Algebras, and Applications", Contemporary Mathematics. 414, American Mathematical Society, (2006), 97-111.
- (10) *AFD multiplier algebras*. International Journal of Mathematics, vol. 17, no. 9, (2006), 1091-1102.
- (11) *Amenability of the sequence of unitary groups associated to a C^* -algebra*. Indiana U. Math. J., vol. 55, (2006), no. 4, 1389-1400
- (12) (with Dan Kucerovsky) *S -regularity and the corona factorization property*. Mathematica Scandinavica, vol. 99, (2006), no. 2, 204-216.
- (13) (with W. Winter) *A note on subhomogeneous C^* -algebras*. C. R. Math. Acad. Sci. Soc. R. Can. (i.e., Mathematical reports of the Academy of Science of the Royal Society of Canada), vol. 28, (2006), no. 3, 91-96.
- (14) (with Dan Kucerovsky) *AF-skeletons and the corona factorization property for simple real rank zero algebras*. Canadian Mathematical Bulletin, vol 50, (2007), no. 2, 227-233.
- (15) (with Bernhard Burgstaller) *Stability of a σ_P -unital continuous field algebra*. Journal of Functional Analysis, vol. 248, (2007), no. 2, 303-316.
- (16) (with Dan Kucerovsky) *Nonregular ideals in $\mathcal{M}(A \otimes K)$* . Houston Journal of Mathematics, vol. 33, (2007), no. 4, 1117-1131.

- (17) (with E. Ruiz) *Extending maps in K -theory*. International Journal of Pure and Applied Mathematics, vol. 41, (2007), no. 3, 419-442.
- (18) (with Efrén Ruiz) *The automorphism group of a tracially AI -algebra*. Communications in Mathematical Physics, vol. 280, (2008), no. 2, 427-444.
- (19) *The multiplier algebra of a nuclear quasidiagonal C^* -algebra*. Bulletin of the London Mathematical Society, vol. 40, (2008), 827-837.
- (20) (with Wilhelm Winter) *Commutative subalgebras of simple stably finite real rank zero C^* -algebras*. Indiana University Mathematics Journal, 257 (2008), no. 7, 3209-3239.
- (21) (with Zhuang Niu and Efrén Ruiz) *Simple unital C^* -algebras with the stable locally finite dimensional property*. J. of Operator Theory, 61 (2009) no. 1, 147-169.
- (22) (with Dan Kucerovsky) *Amenability of the unitary group of the multiplier algebra of a stable AH -algebra*. J. of Operator Theory, 61 (2009) no. 1, 133-145.
- (23) (with Efrén Ruiz) *The structure of the unitary groups of certain simple C^* -algebras*. Houston Journal of Mathematics, 35 (2009) no. 4, 1203-1233.
- (24) (with Dan Kucerovsky) *A simple C^* -algebra with perforation and the corona factorization property*. J. of Operator Theory, 61 (2009) no. 2, 227-238.
- (25) *A Double commutant theorem for purely large C^* -subalgebras of real rank zero corona algebras*. Studia Mathematica, 190 (2009), no. 2, 135-145.
- (26) (with V. Kaftal and S. Zhang) *Strong sums of projections in von Neumann factors*. J. Funct. Anal., 257 (2009) no. 8, 2497-2529.
- (27) (with Dan Kucerovsky) *Completely positive maps into corona algebras*. Math. Proc. Cambridge Philos. Soc., 147 (2009), no. 2, 323-337.
- (28) (with Francesc Perera and Dan Kucerovsky) *Purely infinite corona algebras of simple C^* -algebras*. Mathematische Annalen 346 (2010), no. 1, 23-40.
- (29) (with W. Winter) *Nuclear dimension and the corona factorization property*. International Mathematics Research Notices, (2010) 2010: 261-278.
- (30) *Nonstability of the ideals of the corona algebra of a separable stable prime C^* -algebra*. International Journal of Mathematics 21 (2010) no. 1, 133-143.
- (31) (with Efrén Ruiz) *Simplicity of the projective unitary group of the multiplier algebra of a simple stable nuclear C^* -algebra*. Rocky Mountain Journal of Mathematics 40 (2010) no. 5, 1649-1665.
- (32) (with Dan Kucerovsky) *Nuclearity through absorbing extensions*. C. R. Math. Acad. Sci. Soc. R. Can. (i.e., Mathematical reports of the Academy of Science of the Royal Society of Canada) 32 (2010) no. 4, 106-119.
- (33) *On the unitary group of the Jiang-Su algebra*. Journal of Operator Theory 65 (2011) no. 1, 157-185.
- (34) (with V. Kaftal and S. Zhang) *Positive combinations and sums of projections in purely infinite simple C^* -algebras and their multiplier algebras*. Proc. Amer. Math. Soc. 139 (2011) 2735-2746.
- (35) (with Z. Denton and A. S. Vatsala) *Quasilinearization method via lower and upper solutions for Riemann-Liouville fractional differential equations*, Nonlinear dynamics and Systems Theory, 11(3) (2011) 239-251.
- (36) (with V. Kaftal and S. Zhang) *Positive combinations of projections in von Neumann algebras and purely infinite simple C^* -algebras*. SCIENCE CHINA Mathematics, 54 (2011) no. 11, 2383-2393.

- (37) (with V. Kaftal and S. Zhang) *Projection decomposition in multiplier algebras*. *Mathematische Annalen*, 352 (2012) no. 3, 543–566.
- (38) (with V. Kaftal and S. Zhang) *Finite sums of projections in purely infinite simple C^* -algebras with torsion K_0* . *Proceedings of the American Mathematical Society*, 140 (2012) no. 9, 3219–3228.
- (39) (with E. Ruiz) *On the structure of the projective unitary group of the multiplier algebra of a simple stable nuclear C^* -algebra*. *J. Operator Theory*, 68 (2012) no. 2, 549–565.
- (40) *Commutators in the Jiang-Su algebra*. *International Journal of Mathematics*, 23 (2012) no. 11, 1250113, 29pp.
- (41) (with H. Halpern, V. Kaftal and S. Zhang) *Finite sums of projections in von Neumann algebras*. *Transactions of the American Mathematical Society*, **365** (2013) no. 5, 2409–2445.
- (42) (with T. Giordano) *Some consequences of von Neumann algebra uniqueness*, *J. Funct. Anal.*, **264** (2013) no. 4, 1112–1124.
- (43) (with Alin Ciuperca, Thierry Giordano and Zhuang Niu) *Amenability and uniqueness*. *Advances in Mathematics*, **240** (2013) 325–345.
- (44) (with E. Ruiz) *The automorphism group of a simple Z -stable C^* -algebra*. *Transactions of the American Mathematical Society*, **365** (2013) no. 8, 4081–4120.
- (45) *Commutators in $C_r^*(\mathbb{F}_\infty)$* . *Houston Journal of Mathematics*, **40**, (2014) no. 2, 421–446.
- (46) *The kernel of the determinant map on certain simple C^* -algebras*. *Journal of Operator Theory* **71** (2014), no. 2, 341–379.
- (47) (with V. Kaftal and S. Zhang) *Commutators and linear spans of projections in certain finite C^* -algebras*. *Journal of Functional Analysis* **266** (2014), no. 4, 1883–1912.
- (48) (with V. Kaftal and S. Zhang) *Strict comparison of projections and positive combinations of projections in certain multiplier algebras*. *Journal of Operator Theory* **73** (2015), no. 1, 187–210.
- (49) *A generalization of the Brown–Pearcy Theorem*. *Operators and Matrices* **9** (2015), no. 1, 57–82.
- (50) (with H. Lin) *The corona algebra of stabilized Jiang–Su algebra*. *J. Funct. Anal.* **270** (2016), no. 3, 1220–1267.
- (51) (with L. Robert) *Sums of commutators in pure C^* -algebras*. *Muenster Journal of Mathematics* **9** (2016), 121–154.
- (52) (with V. Kaftal and S. Zhang) *Strict comparison of positive elements in multiplier algebras*. Accepted for publication at the Canadian Journal of Mathematics. Published electronically at <http://dx.doi.org/10.4153/CJM-2016-015-3>.
- (53) *Closed convex hulls of unitary orbits in $C_r^*(\mathbb{F}_\infty)$* . Accepted for publication at *Integral Equations and Operator Theory*. Published electronically at <http://link.springer.com/article/10.1007/s00020-016-2312-3>.
- (54) (with L. Robert) *The kernel of the determinant map on pure C^* -algebras*. Accepted for publication at *Houston Journal of Mathematics*.
- (55) (with T. Robin) *Density of a normal subgroup of the invertibles certain multiplier algebras*. Preprint.

- (56) (with P. Skoufranis) *Closed convex hulls of unitary orbits in certain simple real rank zero C^* -algebras*. Preprint.
- (57) (with L. Robert and P. Skoufranis) *Majorization in C^* -algebras*. Preprint.

1.2. Conferences attended, schools attended, universities visited, talks given etc.

- (1) 1997 West Coast Operator Algebra Symposium. University of California at Santa Barbara. Attended.
- (2) 1998 West Coast Operator Algebra Symposium. California State University at San Bernardino. Attended.
- (3) 1999 Great Plains Operator Theory Symposium. Iowa State University. Gave a talk with title: *Completely contractive projections on preduals of injective von Neumann algebras*.
- (4) September 1999 - December 1999. Attended the semester long Seminar on Free Probability and Operator Spaces at Institut Henri Poincare (IHP) in Paris, France.
- (5) 2000 Canadian Operator Theory Symposium. University of Toronto. Gave a talk with title: *Completely contractive projections on R_** .
- (6) World Mathematical Year 2000 Symposium on the Legacy of John Charles Fields. University of Toronto. Attended.
- (7) September 2000. Attended the workshop on Simple C^* -algebras and Non-commutative Dynamical Systems, which was part of 2000-2001 program on Operator Algebras at the MSRI in Berkeley, California.
- (8) January 2001. Gave a talk at the Free Probability and Non-commutative Banach Spaces workshop, which was part of the 2000-2001 program on Operator Algebras at the MSRI in Berkeley California. Title of talk: *On completely one-complemented subspaces of noncommutative L_1 -spaces*.
- (9) April 2001. Attended the Canadian Symposium on Operator Algebras, which was held at the MSRI during the 2000-2001 program on Operator Algebras.
- (10) 2001 Great Plains Operator Theory Symposium. University of New Hampshire. Gave a talk with the title: *Stable rank, nilpotent groups, noncommutative tori*.
- (11) November 2001. Attended the AMS Sectional Meeting at the University of California at Irvine. Attended the special session on Operator Spaces, Operator Algebras, and Applications.
- (12) May 2002. Attended the Canadian Operator Algebra Symposium, which was held in Thunder Bay, Ontario. Gave a talk with the title: *On the stable rank of algebras of operator fields over a metric space*.
- (13) December 2002. Attended the Canadian Mathematical Society Winter Meeting in Ottawa, Canada.
- (14) May 2003. Attended the Canadian Operator Algebra Symposium, which was held at the University of New Brunswick at Fredericton. Gave a talk with the title: *Simple real rank zero algebras with locally bounded irreducible representations*.
- (15) May - June 2003. Attended the Great Plains Operator Theory Symposium at the University of Illinois at Urbana-Champaign.
- (16) October 2004. Attended the Functional Analysis and Operator Algebra Symposium in the APICS 28th Annual Conference, at the University of

- New Brunswick, St. John's. ("APICS" abbreviates "Atlantic Provinces Council on the Sciences"). Gave a talk with the title *Amenability of the unitary group of the multiplier algebra of a stable AH-algebra*.
- (17) October 30 - November 4, 2004. Attended the workshop, "The structure of amenable systems", at the Banff International Research Station for Mathematical Innovation and Discovery (BIRS). Gave a talk with the title *When stability is a stable property*.
 - (18) May 2005. Visited the Department of Mathematical Sciences at the University of New Brunswick at Saint John. Gave a talk with the title *The Banach-Tarski paradox*.
 - (19) June 7- June 12, 2005. Attended the Great Plains Operator Theory Symposium at the University of Central Florida (in Orlando, Florida). Gave a talk with the title *Nuclearity through absorbing extensions*.
 - (20) June 19- June 24, 2005. Attended the Canadian Operator Symposium at the University of Ottawa (in Ottawa, Ontario, Canada). Gave a talk with the title *Nuclearity through absorbing extensions*.
 - (21) August 15- August 19, 2005. Attended the Northwest Dynamics Symposium at the University of Victoria, Victoria, British Columbia. This symposium is supported by the Pacific Institute for the Mathematical Sciences (PIMS).
 - (22) August 2005. Visited the University of Oregon to discuss mathematics with Huaxin Lin, and regularly attended the UBC (University of British Columbia) probability seminar.
 - (23) January 13, 2006. Visited the University of California at Los Angeles to discuss mathematics with Effros.
 - (24) January 25, 2006. Visited the University of Victoria department of mathematics and statistics. Gave a talk with the title *(Simple real rank zero) nuclear stably finite C^* -algebras*.
 - (25) March 5-10, 2006. Visited Giordano, Handelman and Pestov at the University of Ottawa to discuss mathematics. Also discussed mathematics with C. K. Fong (Carleton) Claus Koestler (Carleton) and Matthias Neufang (Carleton). Gave a talk at the Ottawa-Carleton joint analysis seminar with the title *Amenable multiplier algebras*.
 - (26) March 2006. Gave a talk at the University of Toronto Operator Theory seminar with the title *Amenable multiplier algebras*.
 - (27) May 29-June 2 2006. Attended the Canadian Operator Symposium (COSY 2006). Gave a talk with the title *Stability of a σ_P -unital continuous field algebra*.
 - (28) August 2006. Attended the Texas A and M workshop on analysis and probability theory. Gave a talk with the title *Stability of a σ_P -unital continuous field algebra*.
 - (29) November 2006. Visited University of Cincinnati to work on a research project with Professor V. Kaftal and Professor S. Zhang. Gave two talks. The first talk had the title *Amenable multiplier algebras*. The second talk had the title *The stable rank of the C^* -algebras of certain discrete nilpotent groups*.

- (30) January 2007. Attended the American Mathematical Society and Mathematical Association of America Joint Meeting in New Orleans. Worked on research project with my collaborator Efren Ruiz.
- (31) May 2007. Attended the Great Plains Operator Theory Symposium at the University of Nebraska-Lincoln. Gave a talk with the title: *A measure-theoretic uniqueness theorem and the unitary group of an injective type III factor*.
- (32) June 2007. Attended the Canadian Operator Symposium at the University of Guelph. Gave a talk with the title: *A measure-theoretic uniqueness theorem and the unitary group of an injective type III factor*.
- (33) June-August 2007. Visited the Fields Institute in Toronto, Canada. Here, I met and did research with my collaborators. I also attended the Operator Algebra Seminar and gave talks on my research during the seminar.
- (34) November 12-16 2007. I attended the workshop on Structure of C^* -algebras being held at the Fields Institute, Toronto, Ontario. This workshop is part of the 2007 Thematic Program in Operator Algebras. Here, I met and did research with collaborators.
- (35) February 22-March 1 2008. I visited the Department of Mathematics at the Universitat Autònoma de Barcelona in Barcelona, Spain. I did research with my collaborators Perera Ara, Dan Kucerovsky and Francesc Perera. I also gave a talk with the title *Nuclearity and weak uniqueness*.
- (36) May 19-May 25 2008. Attended the Canadian Operator Symposium at the University of Toronto. I did research with collaborators (among them, Alin Ciuperca and Thierry Giordano). I gave a talk with the title *Nuclearity and weak uniqueness*.
- (37) June 11-June 22 2008. I visited the University of Cincinnati and attended the Great Plains Operator Theory Symposium (which was at University of Cincinnati). I did research with collaborators Victor Kaftal and Shuang Zhang. I also gave a talk with the title *Nuclearity and weak uniqueness*.
- (38) June 26- July 26, 2008. I visited the Fields Institute in Toronto, Ontario, Canada.
- (39) July 4- July 8, 2008. I visited Thierry Giordano at the University of Ottawa, in order to work on a research project.
- (40) August 3 - August 9, 2008. I attended the Analysis and Probability Workshop at Texas A and M University. During the workshop, I worked with Wilhelm Winter on a research project.
- (41) October 6-7, 2008. I visited the Mathematics Department of the University of Houston. I gave a talk at the Departmental Analysis Seminar. The title of the talk was *The corona factorization property and related results*.
- (42) October 11-12, 2008. I attended the East Coast Operator Algebras Symposium at Penn State University, State College, Pennsylvania. I did research with my collaborators Thierry Giordano and Wilhelm Winter.
- (43) December 6-8, 2008. I attended the Canadian Mathematical Society 2008 Winter meeting at Carleton University, Ontario, Canada. I gave a talk with the title *Projection Decomposition in Operator Algebras*. I also did research with my collaborator Thierry Giordano.
- (44) June 2-6, 2009. I attended the Great Plains Operator Theory Symposium (which was held at the University of Colorado at Boulder). I did research

- with collaborators Zhuang Niu and Victor Kaftal. I also gave a talk with title *Projection decomposition in operator algebras*.
- (45) June 8–15, 2009. I visited the Mathematics Department at the University of Cincinnati to do research with my collaborators Victor Kaftal and Shuang Zhang.
 - (46) Nov. 1–7, 2009. I attended the American Institute of Mathematics (AIM) Cuntz semigroup workshop in Palo Alto, California. Here I did research with a large number of my collaborators (e.g., Ciuperca, Lin, Niu, Perera, Winter etc.)
 - (47) June 6–12, 2010. I visited the Mathematics Department of the University of Cincinnati to do research with my collaborators Victor Kaftal and Shuang Zhang.
 - (48) June 12–17, 2010. I attended the Great Plains Operator Theory Symposium (which was held at the University of Denver). I did research with my collaborators Ramesh Garimella and Thierry Giordano. I also gave a talk with the title *On purely infinite corona algebras*.
 - (49) June 19–28, 2010. I visited East China Normal University (in Shanghai China). I attended the 2010 Special Week on Operator Algebras Workshop. While there, I did research with my collaborator Zhuang Niu. I also gave a talk with the title *Purely infinite corona algebras*.
 - (50) June 28–August 2, 2010. I visited the Fields Institute (in Toronto, Ontario, Canada). While there, I did research with my collaborator Zhuang Niu. I also discussed mathematics with George Elliott and various students and postdocs in the Operator Algebra group.
 - (51) July 11–20, 2010. I visited the University of Ottawa (in Ottawa, Ontario, Canada) to attend the Workshop on Groups and Group Actions in Operator Algebra Theory. When there, I did research with collaborators Thierry Giordano and Zhuang Niu. I also gave a talk with the title *On the structure of certain topological groups associated with operator algebras*.
 - (52) **NOTE:** July 23–27, 2010. I did not go to this conference but one of my collaborators did. My coauthor Shuang Zhang (who is at the University of Cincinnati Math Department) attended the conference on “Operator Algebras and Related Topics” at the Academy of Mathematics and Systems Science, Chinese Academy of Sciences. This was a conference in honour of Richard Kadison (University of Pennsylvania). When there, Shuang Zhang gave a talk on our joint work with Halpern and Kaftal.
 - (53) September 3–11, 2010. I visited the University of Nottingham (in Nottingham, United Kingdom) to attend the London Mathematical Society Midlands Regional Meeting and the C^* -algebra theory workshop coming after that.
 - (54) October 28–31, 2010. I attended the Institute on Teaching and Mentoring, which was held at the Marriott Tampa Waterside in Tampa, Florida.
 - (55) April 1–9, 2011. I attended the Workshop on Dynamics and C^* -algebras, which is part of the half-year Research Program on the Cuntz Semigroup and the Classification of C^* -algebras, at the CRM (Centre de Recerca Matemàtica) in Barcelona Spain. While there, I gave a talk at the Workshop. The title of my talk was *Finite sums of projections in simple purely*

- infinite C^* -algebras.* (The CRM is located at the Universitat Autònoma de Barcelona (UAB).)
- (56) May 17–21, 2011. I attended the 2011 Great Plains Operator Theory Symposium (GPOTS) which was held at Arizona State University (in Arizona, USA). While there, I gave a talk with the title *Finite sums of commutators in the Jiang–Su algebra.*
 - (57) May 22–28, 2011. I attended the 2011 Canadian Operator Symposium (COSY) at the University of Victoria (in B.C., Canada).
 - (58) June 1–30, 2011. I attended the Research Program on the Cuntz Semigroup and the Classification of C^* -algebras, at the CRM (Centre de Recerca Matemàtica) in Barcelona, Spain.
 - (59) July 17–23, 2011. I visited the Memorial University of Newfoundland in St. John's, Newfoundland, Canada. While there, I collaborated with my coauthor Zhuang Niu.
 - (60) July 9–16, 2011. I visited the University of Cincinnati in Ohio, USA. While there, I collaborated with my coauthors Victor Kaftal and Shuang Zhang.
 - (61) October 14–16, 2011. I attended the American Mathematical Society (AMS) Sectional Meeting at the University of Nebraska–Lincoln, Lincoln, Nebraska. While there I gave a talk at the Special Session on Dynamical Systems and Operator Algebras. The title of the talk was: *Algebraic and quasiequivalence of type III representations of simple nuclear C^* -algebras.*
 - (62) December 9–12, 2011. I attended the 2011 Winter Meeting of the Canadian Mathematical Society (CMS) in Toronto, Ontario, Canada. While there, I gave a talk at the Operator Algebra Session. The title of the talk was *Commutators in the Jiang–Su algebra.*
 - (63) May 17–31, 2012. I attended the 2012 Operator Algebras Program in the Research Center for Operator Algebras at East China Normal University, Shanghai, China. While there, I collaborated with Professor Huaxin Lin and gave a talk with the title *The determinant map on certain simple C^* -algebras.*
 - (64) July 2–14, 2012. I visited the Fields Institute in Toronto, Ontario, Canada to do research. While there, I attended the Operator Algebras Seminar and collaborated with the students and postdocs of the Operator Algebra group.
 - (65) July 14–22, 2012. I visited the University of Ottawa, Ontario, Canada. While there, I collaborated with my coauthor Professor Thierry Giordano.
 - (66) August 3–8, 2012. I visited the University of Cincinnati. While there, I did research with my coauthors Professor Victor Kaftal and Professor Shuang Zhang.
 - (67) October 28–Nov. 3, 2012. I attended the conference C^* -Algebras, Dynamics, and Classification, at the Mathematisches Forschungsinstitut Oberwolfach (the Mathematical Research Institute of Oberwolfach) in Oberwolfach, Germany. While there, I did research with my collaborators Professor Thierry Giordano and Professor Huaxin Lin.
 - (68) Dec. 16–22, 2012. I visited the University of Cincinnati. While there, I did research with my coauthors Professor Victor Kaftal and Professor Shuang Zhang.

- (69) May 27–31, 2013. I attended the 2013 Canadian Operator Symposium at the University of Toronto (in Toronto, Ontario, Canada). While there, I gave a talk with the title “The corona algebra of the stabilized Jiang–Su algebra”.
- (70) July 3–22, 2013. I visited the Research Center for Operator Algebras at East China Normal University (in Shanghai, China). While there, I collaborated with my coauthor Professor Huaxin Lin.
- (71) July 22–27, 2013. I visited Jilin in Changchun, China, to attend the conference “C*-algebras, structures and classification” (which was hosted by Jilin University). While there, I gave a talk with the title “Commutators in $C_r^*(\mathbb{F}_\infty)$ ”.
- (72) July 31–August 7, 2013. I visited the University of Cincinnati (in Cincinnati, Ohio). While there, I did research with my coauthors Professor Victor Kaftal and Professor Shuang Zhang.
- (73) October 11–12, 2013. I attended the 2013 East Coast Operator Algebras Symposium at the University of Cincinnati (in Cincinnati, Ohio). While there, I gave a talk with the title “Commutators in $C_r^*(\mathbb{F}_\infty)$ ”.
- (74) November 24–29, 2013. I visited the University of Waterloo (in Waterloo, Ontario, Canada). While there, I gave a talk with the title “Sums of projections in certain simple purely infinite C*-algebras.” I also collaborated with Professor Laurent Marcoux.
- (75) April 4–6, 2014. Attended the “Special Session on Progress in Noncommutative Analysis” of the American Mathematical Society (AMS) Sectional Meeting, at the University of New Mexico, Albuquerque, New Mexico, USA. Gave a talk with the title *Commutators in $C_r^*(\mathbb{F}_\infty)$* .
- (76) April 27–May 3, 2014. Visited the University of Cincinnati, Cincinnati, Ohio, in order to do research with my coauthors, Professors Victor Kaftal and Shuang Zhang.
- (77) July 3–July 31, 2014. Visited the Research Center for Operator Algebras, at East China Normal University in Shanghai, China, to do research with Professor Huaxin Lin. While there, I gave a talk with the title *Simple C*-algebras with quasicontinuous scale*.
- (78) August 29–Sept. 6, 2014. Attended the conference on “Classification, Structure, Amenability and Regularity”, at the University of Glasgow, in Glasgow, Scotland, United Kingdom (Britain). While there, I gave a talk with the title *Simple C*-algebras with quasicontinuous scale*.
- (79) Oct. 19–24, 2014. Attended the workshop “Dynamics and C*-algebras: Amenability and Soficity”, at the Banff International Research Station (BIRS) for Mathematical Innovation and Discovery, in Alberta, Canada. While there, I did research with my coauthors Professors Huaxin Lin and Thierry Giordano.
- (80) December 14–20, 2014. Visited the University of Cincinnati, Cincinnati, Ohio in order to do research with coauthors, Professors Victor Kaftal and Shuang Zhang.
- (81) April 2–4, 2015. Visited Texas A and M University. Gave a talk at the Analysis Seminar with the title “The corona algebra of the stabilized JiangSu algebra”.

- (82) June 4–7, 2015. Attended the Canadian Mathematical Society meeting at Charlottetown, Prince Edward Island, Canada. Gave a talk at the operator algebras session with the title “Purely infinite corona algebras”.
- (83) June 7–13, 2015. Attended the NSFCBMS Conference in Laramie, Wyoming. (“NSF” abbreviates “National Science Foundation”. “CBMS” abbreviates “Conference Board of the Mathematical Sciences”.) Gave a talk with the title “Purely infinite corona algebras”.
- (84) August 8–15, 2015. Visited the University of Cincinnati to collaborate with my coauthors Professors Victor Kaftal and Shuang Zhang.
- (85) October 31–November 4, 2015. Visited the University of Oregon to collaborate with my coauthor Huaxin Lin. Gave a talk at the Analysis Seminar with the title “Closed convex hulls of unitary orbits of certain C^* -algebras”.
- (86) December 15–22, 2015. Visited the University of Cincinnati to collaborate with my coauthors Professors Victor Kaftal and Shuang Zhang.
- (87) May 2–19, 2016. Visit Research Center for Operator Algebras at the East China Normal University, Shanghai, China. Give a talk with the title “Real rank zero for purely infinite corona algebras” at the Spring Operator Algebras program. Collaborate with colleagues Professor Huaxin Lin and others.
- (88) May 29–June 13, 2016. Visit the University of Ottawa in Ontario, Canada. Participate in two workshops (both Fields Institute Workshops) there: (a) Workshop on Dynamical Systems and Operator Algebras, and (b) Workshop on New Directions in Inverse Semigroups. Give a talk with the title “Closed convex hulls of unitary orbits of certain C^* -algebras”. Collaborate with colleagues Professors Thierry Giordano and Vladimir Pestov.
- (89) June 13–18, 2016. Participate in the Canadian Annual Symposium on Operator Algebras and their Applications (COSy) at the Centre de Recherches Mathématiques (CRM) in Montreal, Quebec, Canada. Give a talk with the title “Real rank zero for purely infinite corona algebras”. Collaborate with colleagues.
- (90) July 3–8, 2016. Participate in the conference “International conference on structure of C^* -algebras and tracial approximation” at the Hebei Normal University, in Shijiazhuang, Hebei, China. Give a talk with the title “Closed convex hulls of unitary orbits of certain C^* -algebras”.
- (91) July 9–23, 2016. Visit Research Center for Operator Algebras at the East China Normal University, Shanghai, China. Participate in the Summer School on Operator Algebras and Noncommutative geometry. Collaborate with colleagues.
- (92) July 30–Aug. 6, 2016. Visited the University of Cincinnati (Cincinnati, Ohio) to collaborate with coauthors Professor Kaftal and Professor Zhang.
- (93) September 30–Oct. 2, 2016. Visit Loyola University Chicago (Chicago, Illinois) to attend the East Coast Operator Algebras Symposium. While there, I will collaborate with coauthor Professor Paul Skoufranis.
- (94) October 14–16, 2016. Visit the University of Wyoming (Laramie, Wyoming) to attend the West Coast Operator Algebras Seminar. While there, I will collaborate with coauthor Professor Zhuang Niu.

1.3. Places visited for research, talk and/or conference in 2016.

- (1) Centre de Recherches Mathematiques (CRM), University of Montreal, Quebec, Canada.
- (2) Hebei Normal University, Hebei, China.
- (3) Loyola University Chicago, Illinois, USA.
- (4) University of Cincinnati, Ohio, USA.
- (5) University of Ottawa, Ontario, Canada.
- (6) University of Wyoming, Wyoming, USA.
- (7) Research Center for Operator Algebras, East China Normal University, Shanghai, China.

2. TEACHING EXPERIENCE AT THE UNIVERSITY OF LOUISIANA AT LAFAYETTE

- (1) 2006-2007 school year. At the University of Louisiana of Lafayette:
 - (a) Both semesters, I taught a differential and integral calculus course for Biology and Business majors.
 - (b) I also taught the year-long first year graduate course in Real and Functional Analysis. There were both Master's and PhD students. There were a wide variety of students on different tracks (pure mathematics, applied mathematics, statistics) and they came from various backgrounds. The students were reasonably well-prepared - all of them had at least one undergraduate course in analysis.
The topics of this course were roughly: metric spaces, measure theory, Lebesgue integral, Banach spaces, Hilbert spaces, L_p -spaces, Fourier series. The main reference for the course was my lecture notes (though students were encouraged to also consult standard texts like Folland, Royden, Rudin etc.).
NOTE: Each semester (from 2006–2010) there were 15–19 students enrolled in the graduate analysis course (573, 574, 575 or 576) that I taught that semester.
 - (c) Summer 2007. I was the committee chair for the Real and Functional Analysis Comprehensive exam for graduate students.
 - (d) Summer 2007. I was the committee chair for the the Complex Analysis Comprehensive exam for graduate students.
- (2) Fall 2007. At the University of Louisiana at Lafayette:
 - (a) I taught a differential calculus course for students in engineering and the physical sciences.
 - (b) I am taught the year-long first year graduate course in Complex Analysis. This is a standard first year graduate course in Complex Analysis. The main reference for this course is my lecture notes though I encourage students to refer to standard texts like Alhfors, Rudin, Conway etc.
- (3) Spring 2008. At the University of Louisiana at Lafayette:
 - (a) I continued to teach the year-long first year graduate course in Complex Analysis.
 - (b) I taught the upper division undergraduate course in ordinary differential equations. The students were mainly engineering students, and students from the mathematical and physical sciences.

- (4) Summer 2008. At the University of Louisiana at Lafayette: I was the committee chair for both the Real and Functional Analysis and Complex Analysis comprehensive exams for graduate students.
- (5) Fall 2008. At the University of Louisiana at Lafayette:
 - (a) I taught the year-long first year graduate course in Real and Functional Analysis (Math 573). This is the same as the Real and Functional Analysis course that I taught in the 2006-2007 academic year.
 - (b) I taught an advanced Functional Analysis course (Math 677). The prerequisite for this course is the Real and Functional Analysis course. The ultimate goals of the course are (a) spectral theory for bounded self-adjoint operators (b) basics of the theory of unitary (group) representations.
 - (c) I taught a graduate level research methods course.
- (6) Spring 2009. At the University of Louisiana at Lafayette: I continued to teach the Real and Functional Analysis course (Math 574 that semester) and the advanced Functional Analysis course (Math 678 that semester).
- (7) Summer 2009. I was the committee chairs for the Complex Analysis and Real and Functional Analysis comprehensive exams.
- (8) Fall 2009. At the University of Louisiana at Lafayette: I taught the first year undergraduate Calculus course (Math 270) and the first year graduate course in Complex Analysis (Math 575).
- (9) Spring 2010. At the University of Louisiana at Lafayette: I taught the upper level Ordinary Differential Equations course (mainly for scientists and engineers; Math 350), and taught the second semester of the graduate Complex Analysis course (Math 576).
- (10) Summer 2010. I am the committee chairs of the Complex Analysis comprehensive exam and the Real and Functional Analysis comprehensive exam.
- (11) Fall 2010. I am teaching two graduate courses. The first is the first semester in the year-long Real and Functional Analysis course (Math 573). The second is an advanced Functional Analysis course (Math 677).
- (12) Spring 2011. I taught two graduate courses, one undergraduate course and two reading courses (for a total of five courses). The first graduate course is the second semester of the year-long Real and Functional Analysis course (Math 574). The second graduate course is an advanced Functional Analysis course (Math 678; 4 students). The undergraduate course is a course in ordinary differential equations (Math 350). The two reading courses are in analysis.
- (13) Fall 2011. I taught four courses. I taught two sections of the Differential Calculus course (mainly for engineers and scientists) Math 270 (sections 1 and 2). I taught the first semester of the year-long graduate course in Complex Analysis, Math 575. I also taught Advanced Functional Analysis, Math 677.
- (14) Spring 2012. I taught the second semester of the year-long graduate course in Complex Analysis, Math 576. I also taught Math 678.
- (15) Fall 2012. I taught Math 573, the first semester of the year-long graduate course in Real and Functional Analysis. I also taught Math 250 and taught a reading course Math 497. I also supervised the research of one graduate student (Math 699, nine hours).

- (16) Spring 2013. I taught Math 574, the second semester of the year-long graduate course in Real and Functional Analysis. I also taught Math 677, the first semester of the Advanced Functional Analysis course. I also taught a reading course Math 498, and I supervised the research of two graduate students (Math 699, 6 and 9 hours each).
- (17) Fall 2013. I taught Math 575, the first semester of the year-long graduate course in Complex Analysis. I also taught Math 678, the second semester of Advanced Functional Analysis. I taught a reading course Math 497, and I supervised the research of two graduate students (Math 699, 6 and 9 hours each).
- (18) Spring 2014. I taught Math 576, the second semester of graduate Complex Analysis. I also supervised the research of two graduate students (Math 699, 6 and 9 hours each).
- (19) Fall 2014. I taught Math 270 and Math 573. I gave out a reading course Math 497 to one student. I also supervised the research of two graduate students (Math 699, 6 and 9 hours each).
- (20) Spring 2015. I taught Math 250 and Math 574. I taught a reading course Math 597. I also supervised the PhD research of one graduate student (Math 699 for 6 hours).
- (21) Fall 2015. I taught Math 493 (Advanced Calculus) and Math 677. I also supervised the PhD thesis research of one graduate student (699 for 6 hours) and the Master's thesis research of another graduate student (Math 599 for 3 hours).
- (22) Spring 2016. I taught Math 250, Math 494 and Math 678. I also supervised the PhD thesis research of one graduate student (Math 699, 9 hours) and the Master's thesis research of another graduate student (Math 599, 3 hours).
- (23) Fall 2016. I am teaching two sections of Math 250. I am teaching a reading course Math 597. I am also supervising the PhD thesis research of one graduate student (Math 699, 9 hours).
- (24) Other teaching experiences:
 - (a) I was the faculty mentor for a graduate student who was awarded a Board of Regents/SREB Diversity Fellowship for doctoral study in mathematics.
 - (b) I have given out twelve reading courses to graduate students. These courses are all on advanced aspects of analysis – usually advanced functional analysis.
 - (c) I have taught the Math 677–678 (Advanced Topics in Analysis I and II) sequence at least 4 times. This is a second year graduate sequence, and I usually teach advanced functional analysis in these courses. These fundamental courses serve a broad audience – consisting of a wide range of students in pure and applied mathematics, as well as those who wish to specialize in functional analysis. During the last time that I taught the Math 677-678 sequence (Fall 2015–Spring 2016), there were six graduate students each semester.
 - (d) I was in the Master's Degree Committees of thirty six students. I was the Chair of ten of these committees.
 - (e) I am in the PhD Oral Exam Committee of twenty-one students.
 - (f) I was the Chair of one of these committees.

- (g) I was in the PhD Thesis committee of ten students.
- (h) I was the Chair of one of these committees.
- (i) I have written reference letters in support of at least twenty three students.
- (j) Since 2006, I have been in the PhD Comprehensive Exam Committees of all Real and Functional Analysis and all Complex Analysis PhD comprehensive exams at the ULL Math Department. I have been the Committee Chair for at least two thirds of all such exams.

3. PROFESSIONAL AND UNIVERSITY SERVICE

I am a referee for the following journals:

Bulletin of the Canadian Mathematical Society, Bulletin of the Malaysian Mathematical Sciences Society, Canadian Journal of Mathematics, Illinois Journal of Mathematics, Integral Equations and Operator Theory, Journal of Functional Analysis, Journal of Operator Theory, Missouri Journal of Mathematical Sciences, Turkish Journal of Mathematics.

From Fall 2013 to the Spring 2015, I was Colloquium Chair for the Mathematics Department of the University of Louisiana at Lafayette. (45 speakers.)

From Fall 2012 to now (2016), I have been in the Graduate Admissions and the Graduate Recruitment Committees of the Math Department.

From Fall 2006 to the Spring 2014, I was in the Library Committee of the Mathematics Department of the University of Louisiana at Lafayette.

I was in the conference committee for the 2010 Lloyd G. Roeling – Southern Regional Algebra Conference (which was hosted by the Mathematics Department of the University of Louisiana at Lafayette).

Spring 2015: Member of the Math Department Hiring Committee. (Hired in the subjects of Mathematical Biology and Topology.)