

# Marius Dadarlat

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## Education

1990 - 1991	<b>Ph.D. in Mathematics</b> <i>University of California, Los Angeles</i> ADVISOR: Prof. Edward Effros THESIS: <i>Homotopy invariants for operator algebras</i>
1982 - 1983	<b>M.Sc. in Mathematics</b> <i>University of Bucharest</i> ADVISOR: Prof. Dan Voiculescu THESIS: <i>Traces of commutators of integral operators</i>
1978 - 1982	<b>B.Sc. in Mathematics</b> <i>Babes-Bolyai University of Cluj-Napoca</i>

## Professional Experience

1984-90	Junior Researcher, Institute of Mathematics of the Romanian Academy of Science
1991-92	Postdoctoral Fellow University of Maryland at College Park
1992-96	Assistant Professor Purdue University
1996-2001	Associate Professor Purdue University
2001–	Professor Purdue University
1996 (May)	Invited Associate Professor University of Marseille, Luminy
2000-2001	Visiting Research Professor MSRI, Berkeley, CA
2005–	Honorary member of the Institute of Mathematics of the Romanian Acad. of Science
Fall 2007	Visiting Professor Fields Institute, Toronto
Spring 2016	Program Organizer at Mittag-Leffler institute, Stockholm.
Summer 2017	Visiting Member at The Isaac Newton Institute, Cambridge UK.

## Research Interests

Operator Algebras (K-Theory, noncommutative topology, geometric group theory)

## Research Support

- (1) Travel grant from the International Math. Union to attend the International Math. Congress, Kyoto, 1990, \$2,000.
- (2) Invariants of Operator Algebras, \$60,266 - National Science Foundation, 3 year continuing grant, 6/1/93 - 5/31/96.
- (3) Travel Support from Amer. Math. Soc. to attend the International Congress of Mathematicians, Zürich, 1994, \$1,450.
- (4) Invariants of Operator Algebras, \$60,600 - National Science Foundation, 3 year continuing grant, 6/1/96 - 5/31/99.
- (5) Noncommutative Dynamical Systems, \$34,500 - National Science Foundation 05/15/98 - 07/31/99. (Thesis enhancement award for my student, Nate Brown.)
- (6) Noncommutative Dynamical Systems, \$20,000 - Purdue Research Foundation - 1998-2000.
- (7) Research on the classification of nuclear  $C^*$ -Algebras, \$84,000, National Science Foundation 3-year grant, 1999-2002.
- (8)  $C^*$ -algebras, K-theory and Groups, \$240,000, National Science Foundation 3-year grant, 2002-2005.
- (9) Operator algebras, K-theory and groups, \$274,227, National Science Foundation 3-year grant, 2005-2008.
- (10) Operator algebras and K-theory, \$295,000 National Science Foundation 3-year grant, 2008-2011.
- (11) Operator Algebras and Topological Invariants, \$319,569, National Science Foundation 3-year grant, 2011-2014.
- (12) Twisted continuous trace  $C^*$ -algebras and  $C^*$ -algebras not isomorphic to their opposites, \$104,000, US-Israel, Binational Science Foundation 4-year grant, 2011-2015 (Co-PI with I. Hirshberg and C. Phillips).
- (13) Invariants of noncommutative spaces, \$15,750 - Purdue Research Foundation Grant- 2012-2013.
- (14) Operator Algebras, Groups and Topological Invariants, \$240,000, National Science Foundation 3-year grant, 2014-2017.
- (15) Operator Algebras, Groups and Topological Invariants, \$180,000, National Science Foundation 3-year grant, 2017-2020.
- (16) Matrix Approximations, Stability of Groups and Cohomology Invariants, \$269,475, National Science Foundation 3-year grant, 2023-2026.
- (17) Bilsland dissertation fellowship for my student Forrest Glebe

## Other Professional Activity

### Organization of Conferences

Co-organizer of the AMS-IMS-SIAM Joint Summer Research Conference on Classification Problems in  $C^*$ -Algebras and Dynamics at Mt. Holyoke College, MA,

Co-organizer of Workshop on the structure of  $C^*$ -algebras at the Fields Institute

Co-organizer of Banff meeting on the structure and classification of  $C^*$ -algebras

Coordinator of the semester long program on "The Cuntz Semigroup and the Classification of  $C^*$ -Algebras" at CRM Barcelona

Co-organizer of 4 AMS Special Sessions

I am a member of various Scientific Committees: for GPOTS (the annual major meeting on operator algebras and operator theory in US) and the East Coast Operator Algebras Seminar

Co-organizer (with Andrew Toms) of GPOTS 2015 at Purdue

Co-organizer with S. Eilers and A. Tornquist of a semester-long program at the Mittag-Leffler institute titled "Classification of Operator Algebras: Complexity, Rigidity, and Dynamics, Spring 2016.

Co-organizer (since 2001) of the perennial Wabash Modern Analysis Seminar and Mini-conferences series

## Editorship

2003–2007	Editor of the Transactions of the A.M.S. (Operator Algebras /Functional Analysis),
2012–2019	Editor of Illinois Journal of Mathematics
2014–2019	Editor of Journal of Operator Theory
2006–2020	Editor of Journal of Homotopy and Related Structures
2019–present	Associate Editor of Journal of Operator Theory

## Professional Service

1996-99	Member of the University Grade Appeal Committee
1998-99	Member of the College of Science Grade Appeal Committee
2008-2009	Colloquium chairman
2011-2014	Member of the Purdue University Senate
2016-2019	Member of the Faculty Council of the College of Science
2016-2019	Member of the Graduate Council of the University
2003-07, 2010-13, 2015-2022	Member of the Graduate Committee
1997-00, 2008-2024	Member of the Math Department Calculus Committee
2017-2021	Member of Graduate School's Special Fellowship review panel.
2020-present	Member of the College of Science Awards Committee
2001-02, 2008-09, 2012-13, 2020-2021, 2022-2023	Member of the Promotion Committee
2001-06, 2008-09, 2023-24-25	Member of the Personnel Committee
2025	Member of the Area Committee

## Supervision

### Graduate Students:

1995-1999	Nate Brown (NSF Postdoctoral Fellowship, Prof. at Penn State, USA)
2002-2008	Stefanos Orfanos (Tenure track Assistant Professor, DePaul University, USA)
2007-2012	Prahlad Vaidyanathan (Tenured Associate Professor, IISER Bhopal, India)
2013	José Carión (NSF Postdoctoral Fellowship, Tenured Associate Professor at TCU Fort Worth), José Lugo (Tenured Associate Professor at College of Coastal Georgia)
2016	Andrew Schneider (works in industry)
2020	Ellen Weld (Kunze RA Fellowship 2019, tenure track Assistant Professor Sam Houston University), Jake Desmond (NSF Mathematical Sciences Graduate Internship for Summer 2019, works at National Lab in New-Hampshire)
2024	Forrest Glebe (postdoc at University of Hawaii), Iason Vasileios Moutzouris (postdoc at Sam Houston University).
current students:	Arka Das and Hasani Waidyarathne

### Postdoctoral:

1994-1997	Erik Guentner, (co-supervisor with Larry Brown, Ph.D. Penn State), NSF Career Grant, now Professor at University of Hawaii
2002-2005	Michael Jury, (co-supervisor with Carl Cowen, Ph.D Washington University) now Associate Professor at University of Florida
2004-2007	Roman Sasyk, Ph.D UCLA, now Adjunct Professor at Instituto Argentino de Matematica)
2010-2012	Caleb Eckhardt (co-supervisor with Andrew Toms, Ph.D. UIUC) (tenured Assoc. Professor at Miami University)
2013-2014	Bhishan Jacelon (co-supervisor with Andrew Toms, Ph.D Glasgow)

### “Recent” One Hour Invited Talks

2009	Conference on Noncommutative Geometry, Munster Germany, August 24–28.
2009	Workshop on the Structure of $C^*$ -algebras, Qinhuagdao, China, September 2009.
2009	WCOAS 09, In honor of Jean Renault’s 60th birthday, University of Nevada, Reno, October 17–18, 2009
2009	Series of 5 Lectures at the Masterclass on Structure of $C^*$ -algebra, Copenhagen, November 2009
2010	Oberwolfach, Meeting on $C^*$ -algebras, March 2010
2010	Workshop on “Semiprojectivity and asymptotic morphisms”, University of Copenhagen, May 2010
2010	Special Week in Operator Algebras, Two lectures, Shanghai, University of East China, June 21-25, 2010

- 2010 Conference on Noncommutative Geometry, University of Victoria, BC, Canada, June 27-July 2, 2010
- 2010 New trends in noncommutative algebra, University of Washington, Seattle, August 9-13, 2010
- 2010 Series of 5 lectures at The School and Workshop on Operator Algebras and applications Madrid, Spain, Sept 13 –17, 2010.
- 2011 Conference on Structure and Classification of  $C^*$ -Algebras, CRM, Barcelona June 2011
- 2011 Invited talk at the Congress of Romanian Mathematicians, Brasov 2011
- 2011 Conference on  $C^*$ -Algebras and Related Topics, RIMS, Kyoto, September 2011
- 2011 Workshop in honor of 65th birthday of E. Kirchberg, Copenhagen, November 2011
- 2012 Colloquium on topological invariants obtained by matricial deformations of Operator Algebras, Univ. of Munster January 2012
- 2012 Conference on Operator Theory and Operator Algebras, Timisoara July 2012
- 2012 Great Plains Operator Theory Symposium (the major Operator Algebras annual conference in USA), Houston, May 2012
- 2012 Series of 5 lectures at the Masterclass on Semiprojectivity of  $C^*$ -algebras at University of Copenhagen, August 2012
- 2012 Workshop on Semiprojectivity of  $C^*$ -algebras at University of Copenhagen, September 2012
- 2012 East Coast Operator Algebras Seminar, October 2012, Knoxville TN
- 2012 Oberwolfach Workshop on Classification of  $C^*$ -algebras and Dynamical Systems, November 2012
- 2013 Workshop on  $C^*$ -algebras and Noncommutative Dynamics, March 11-14, ISRAEL
- 2013 Workshop on The structure and Classification of nuclear  $C^*$ -algebras, ICMS Edinburg Apr 15 - -19.
- 2013 Canadian Annual Symposium on Operator Algebras and Their Applications, May 27-31, Fields Institute, Toronto, Canada.
- 2013 The Eleventh Annual Spring Institute on Noncommutative Geometry and Operator algebras with theme: Index Theory and K-Theory, Vanderbilt University, May 2013.
- 2013 Series of 5 lectures at Masterclass at University of Copenhagen on the classification of non-simple purely infinite  $C^*$ -algebras, July 22-26
- 2013 Concentration Week in "Dynamics, Geometry, and Operator Algebras" at Texas A&M University, August 2013.
- 2013 Oberwolfach Workshop of  $C^*$ -algebras
- 2013 Series of 3 lectures at SFB Miniworkshop on  $C^*$ -Algebras,  $C^*$ -Bundles and Group Actions University of Münster, 25-29 November 2013
- 2014 Series of 3 lectures at Masterclass on Classification, structure, amenability and regularity, University of Glasgow, August 23–29, 2014

- 2014 Invited talk at the Conference on Classification, structure, amenability and regularity, University of Glasgow, September 1–5, 2014
- 2014 Invited talk at the 2014 East Coast Operator Symposium at the Fields Institute in Toronto, October 11-12, 2014.
- 2014 Invited talk at Banff research Station at the workshop on Dynamics and  $C^*$ -Algebras: Amenability and Soficity October 19–24, 2014
- 2015 Invited talk at the Congress of the Romanian Mathematicians, Iasi, June 2015
- 2015 Invited talk at the University of Münster Workshop on  $C^*$ -algebras: Geometry and Actions
- 2015 2 hrs invited talks at the conference "Noncommutative Dimension Theories" at University of Hawaii
- 2016 3 talks at the program "Classification of Operator algebras: complexity, rigidity, and dynamics" at the Mittag-Leffler Institute.
- 2016 The 26th International Conference in Operator Theory at Timisoara Romania (June 27-July 2)
- 2016 Invited talk at the Operator Algebras and Mathematical Physics conference at Tohoku University, Sendai, Japan.
- 2017 Barcelona Conference on " $C^*$ -algebras: Structure, Classification and Dynamics"
- 2017 Banff workshop on "Future Targets in the Classification Program for Amenable  $C^*$ -Algebras"
- 2017 Series of 5 lectures at Masterclass on KK-theory, Universal Coefficient Theorems and applications, at Univ. of Copenhagen.
- 2018 Great Plains Operator Theory Symposium (the major Operator Algebras annual conference in USA), Miami Univ., May 2018
- 2018 Annual Spring Institute on Noncommutative Geometry and Operator Algebras:  $C^*$ -Algebras and Dynamics, May 14 - May 19, 2018, University of Münster, Germany
- 2018 The 2018 East Coast Operator Algebras Symposium, Texas Christian University, Fort Worth, Texas October 13 and 14, 2018.
- 2019 Special Week on Operator Algebras, June 10-14, 2019, at the Research Center for Operator Algebras, East China Normal University, Shanghai, China
- 2019 9th Congress of Romanian Mathematicians, June 30 –July 4 2019
- 2019 Conference on "K-theory and  $C^*$ -algebras," held at the University of Hawaii-Manoa, December 2 –December 6, 2019
- 2020 Probabilistic Operator Algebra Seminar, U.C. Berkeley, September 14, 2020
- 2021 GAPT seminar at Cardiff University, November 19, 2020
- 2021 Workshop "Actions of Tensor Categories on  $C^*$ -algebras" , January 27, 2021
- 2021 Stability and testability seminar, IAS Princeton, March 3, 2021
- 2021 OA seminar at University of Odense, March 3, 2021
- 2021 OT seminar at IMAR Bucharest, March 24, 2021

2021	OA seminar at UCLA, May 5, 2021
2022	Invited talk at the ICM satellite conference “Operator Algebras, Dynamics and Groups” at University of Copenhagen
2022	Oberwolfach Workshop of $C^*$ -algebras
2023	Invited talk at Modern Trends in Operator Algebras conference that will take place at UCLA March 25-29, 2023
2023	$C^*$ -Algebras: Tensor Products, Approximation and Classification, July 17-21, 2023, University of Münster, Germany
2023	Invited talk “Special Week on Operator Algebras” to be held in Shanghai from July 31 - August 4, 2023, organized by East China Normal University and the Shanghai Center for Mathematical Sciences, Fudan University ( <i>declined</i> )
2023	A day in operator algebras, Conference honoring the 80th birthday of Ioana Popa, IMAR -Bucharest, June 28, 2023
2023	Invited talk in the Section of Functional Analysis at the 10th Congress of Romanian Mathematicians, June 30 –July 4 2023, Pitesti Romania.
2024	Invited plenary talk at “Noncommutativity in the North” conference in Gothenburg, Sweden, June 2024
2024	Invited talk at “The 29th International Conference in Operator Theory,” in Timisoara, Romania, July 2024
2024	Invited talk (50 minutes) at workshop on “Group Operator Algebras: Classification, Structure and Rigidity” at BIRS Banff September 2024.
2024	Seminar talk at Purdue in Operator Algebras, title “Central extensions and almost representations of discrete groups”
2025	Invited talk at the International workshop on the “Interactions between $C^*$ -algebraic KK-theory and homotopy theory”, Univ. Illinois at Urbana-Champaign & Univ. of Regensburg
2025	Oberwolfach August 3, 2025
2025	Invited talk at the “Stability and Probabilistic Methods” workshop, Isaac Newton Institute for Mathematical Sciences, Cambridge, November 24-28, 2025

## Service to the profession

- (a) I served as a member of several NSF panels and on an NSF/CBMS Regional Conferences panel. I have reviewed funding applications for National Science Foundation of USA and Natural Sciences and Engineering Research Council of Canada
- (b) I have refereed manuscripts for the following journals: Annals of Mathematics, Acta Mathematica, Inventiones, Journal of the Amer. Math. Soc., Duke Journal, Advances in Mathematics, American J. Math., Geom. Funct. Anal., Journal für die Reine und Angewandte Mathematik, Journal of Algebra, Transactions of the AMS, Ergod. Th. & Dynam. Sys., Journal of the LMS, Bulletin of the LMS, Mathematische Annalen, Journal of Functional Analysis, Comm. Math. Phys., Journal of K-theory, Geometriae Dedicata, Documenta Math.,

Mathematica Scandinavica, Journal of Operator Theory, Journal of Noncommutative Geometry, Int. J. Math., Pacific J. Math., Proc. Amer. Math. Soc, Indiana J. of Mathematics and a number of other journals

## References

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- [2] M. Dadarlat, “Cohomological Obstructions to Group Stability with Respect to the Operator Norm”, Rev. Roumaine Math. Pures Appl. 69 (2024), 3-4, 471–485.
- [3] M. Dadarlat, “Non-stable groups”, arXiv:2304.04645 [math.OA] (to appear in) *Münster Journal of Mathematics* issue dedicated to the memory of Eberhard Kirchberg.
- [4] M. Dadarlat and U. Pennig “Bundles of strongly self-absorbing  $C^*$ -algebras with a Clifford grading”, J. Math. Soc. Japan Advance Publication 1-34 (December, 2024).
- [5] M.M. Dadarlat, J. E. McClure and U. Pennig “Computing cohomology groups that classify bundles of strongly self-absorbing  $C^*$ -algebras”, arXiv:2302.08028 [math.OA] Journal of Topology and Analysis, published on line March 2024.
- [6] M. Dadarlat, “Quasi-representations of groups and two-homology, ” *Comm. Math. Phys.* (2022) 393, 267277
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- [13] J. Carrion, M. Dadarlat “Almost flat K-theory of classifying spaces, *J. Noncommutative Geometry* 12 (2018), no. 2, 407–438
- [14] M. Dadarlat and U. Pennig “ Connective  $C^*$ -algebras,” *J. Funct. Anal.* 272 (2017), no. 12, 4919-4943.



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