

Curriculum Vitae

James ‘Jamie’ Gabe

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Born: September 27, 1987

Nationality: Danish and British



Education.

- Doctor of Philosophy (Ph.D.), Mathematics, University of Copenhagen, Denmark, June 2015.
 - Title: Contributions to the classification of C^* -algebras and graph algebras.
 - Advisors: Søren Eilers and Ryszard Nest

Employment.

- August 2020:
Assistant Professor at University of Southern Denmark
- April 2019 to July 2020:
Postdoc at University of Wollongong
- September 2017 to March 2019:
Postdoc at University of Glasgow
Internationalisation Fellowship, Carlsberg Foundation (awarded twice).
- September 2016 to August 2017:
Lecturer at University of Southampton
- February 2016 to August 2016:
Scientific assistant at University of Southern Denmark
- January 2016 to February 2016:
Postdoc at Institut Mittag-Leffler
Institut Mittag-Leffler Fellowship
- September 2015 to January 2016:
Scientific assistant at University of Southern Denmark
- May 2015 to August 2015:
Scientific assistant at University of Copenhagen
- May 2012 to April 2015:
Ph.D.-stipend at University of Copenhagen
- September 2008 to April 2012:
Teaching assistant at University of Copenhagen.

Fellowships.

- Internationalisation Fellowship, Carlsberg Foundation, 2017.
- Internationalisation Fellowship, Carlsberg Foundation, 2016.
- Institut Mittag-Leffler Fellowship, 2015.

Published and Accepted papers.

- *Classification of \mathcal{O}_∞ -stable C^* -algebras*
Mem. Amer. Math. Soc. (to appear)
ArXiv:1910.06504
- *The extension problem for graph C^* -algebras*, with Søren Eilers, Takeshi Katsura, Efren Ruiz, and Mark Tomforde,
Ann. K-theory 5(2):295–315, 2020.
- *Traceless AF embeddings and unsuspended E-theory*,
Geom. Funct. Anal. 30(2):323–333, 2020
- *Hereditary C^* -subalgebras of graph C^* -algebras*, with Sara Arklint and Efren Ruiz
J. Operator Theory. 84(1):99–126, 2020.
- *The unital Ext-groups and classification of C^* -algebras*,
Glasgow Math. J. 62:201–231, 2020.
- *A new proof of Kirchberg’s \mathcal{O}_2 -stable classification*,
J. Reine Angew. Math. (Crelle’s Journal), 761:247–289, 2020.
- *Quasidiagonal traces on exact C^* -algebras*,
J. Funct. Anal. 272(3):1104–1120, 2017.
- *A note on non-unital absorbing extensions*,
Pacific J. Math., 284(2):383–393, 2016.
- *Classification of tight C^* -algebras over the one-point compactification of \mathbb{N}* , with Efren Ruiz,
J. Operator Theory, 76(1):175–204, 2016.
- *K-theory for Leavitt path algebras: computation and classification*, with Efren Ruiz, Mark Tomforde, and Tristan Whalen,
J. Algebra, 433:35–72, 2015.
- *Graph C^* -algebras with a T_1 primitive ideal space*,
Operator Algebra and Dynamics: Nordforsk Network Closing Conference, Faroe Islands, Springer, 2013. pp. 141–156 (Springer Proceedings in Mathematics & Statistics, Vol. 58).

Other papers.

- *Dynamic asymptotic dimension and Matui’s HK conjecture*, with Christian Bönicke, Clément Dell’Aiera, and Rufus Willett,
ArXiv:2104.05885
- *The nuclear dimension of \mathcal{O}_∞ -stable C^* -algebras*, with Joan Bosa, Aidan Sims, and Stuart White,
ArXiv:1906.02066
- *Lifting theorems for completely positive maps*,
ArXiv:1508.00389
- *Absorbing representations with respect to operator convex cones*, with Efren Ruiz,
preprint arXiv:1503.07799.
ArXiv:1503.07799

Research programmes. *AIM SQuaRE*, with José Carrión, Kristin Courtney, Chris Schafhauser, Aaron Tikuisis, and Stuart White.

Invited conference, workshop, seminar, and colloquium talks.

- August 2021, Korea Operator Algebra Seminar (online), Korea.
- December 2020, Canadian Mathematics Society (online), Canada.
- October 2020, Colloquium, University of Louisiana at Lafayette (online), USA.
- October 2020, UK Virtual Operator Algebras Seminar (online), UK.
- December 2019, Workshop on K -theory, Honolulu, Hawaii, USA.
- September 2019, Topology and measure in Dynamics and Operator Algebras, Banff, Canada.
- August 2019, C^* -algebren, Oberwolfach, Germany.
- July 2019, Groupoids, Graphs, and C^* -algebras, Sydney, Australia.
- May 2019, Ober Seminar, Münster, Germany.
- February 2019, Operator Algebra Seminar, Odense, Denmark.
- January 2019, Functional Analysis Seminar, University of Oxford, UK.
- December 2018, Seminar at the Field's institute, Toronto, Canada.
- November 2018, Wabash Seminar, Wabash College, Indiana, USA.
- October 2018, Operator Algebra Seminar, Purdue, Indiana, USA.
- October 2018, Colloquium, Fort Worth, Texas, USA.
- October 2018, East Coast Operator Algebra Symposium, Fort Worth, Texas, USA.
- October 2018, Analysis Seminar, Newcastle, UK.
- May 2018, Workshop, Faroe Islands.
- May 2018, NCGOA, Münster, Germany.
- May 2018, Operator Algebra Seminar, Odense, Denmark.
- April 2018, Operator Algebra Seminar, Copenhagen, Denmark.
- April 2018, NBFAS, Edinburgh, Scotland.
- February 2018, Workshop, Texas A&M, USA.
- December 2017, Seminar, Barcelona, Spain.
- November 2017, Operator Algebra Seminar, Leuven, Belgium.
- October 2017, Applications of the UCT for C^* -algebras, Copenhagen, Denmark.
- September 2017, ICMS, Edinburgh, Scotland.
- September 2017, Future targets in the Classification Program for Amenable C^* -algebras, Banff, Canada.
- June 2017, IRP Operator Algebra: weekly seminar, Barcelona, Spain.
- April 2017, Ober Seminar, Münster, Germany.
- March 2017, Operator Algebra Seminar, Copenhagen, Denmark.
- March 2017, Workshop on C^* -algebras and Dynamical Systems, Barcelona, Spain.
- January 2017, Seminar on Operator Algebras, Aberdeen, Scotland.
- November 2016, Structure and classification of C^* -algebras, Warsaw, Poland.
- October 2016, Lunchtime seminar, Southampton, UK.
- May 2016, Analysis seminar, Glasgow, Scotland.
- February 2016, Workshop Classification and dynamical systems I: C^* -algebras, Institut Mittag-Leffler, Sweden.
- January 2016, Workshop Classification and discrete structures, Institut Mittag-Leffler, Sweden.
- October 2015, Operator Algebra Seminar, Odense, Denmark.
- July 2015, Workshop on C^* -algebras: Geometry and Actions, Münster, Germany.
- April 2015, Workshop on C^* -algebras: Structure and Classification, Münster, Germany.

- May 2014, The 8th Øresund symposium on non-commutative analysis and non-commutative geometry, Lund, Sweden.
- December 2013, Danish/Norwegian operator algebra workshop, Schæffergården, Denmark.

Teaching experience.

- **Postdoc at University of Wollongong**, April 2019 – July 2020
 - Supervision of PhD student Joel Zimmerman (with Prof. Aidan Sims).
 - Created and lectured a course on von Neumann algebras.
- **Postdoc at University of Glasgow**, September 2017 – March 2019
 - lecturer in 1Y: (first year calculus),
 - did tutorials in a course on third year analysis,
 - mentoring a research student Mikkel Munkholm with Prof. Stuart White.
- **Lecturer at University of Southampton**, September 2016 – August 2017
 - lectured a course on algebraic topology,
 - was partially in charge of a students workshop,
 - was an academic supervisor in a course on mathematics for engineering students,
 - did exercise sessions in courses on linear algebra and calculus,
 - did exam marking in a linear algebra course.
- **Scientific assistant at University of Southern Denmark**, September 2015 – August 2016
 - lectured four courses: one on basic mathematics for economics students, two on linear algebra for economics students, and one on (advanced) probability theory, and was in charge of all major tasks,
 - was in charge of a high school outreach programme, in collaboration with the Biology department at University of Southern Denmark.
- **Scientific assistant at University of Copenhagen**, May 2015 – August 2015
 - taught a mini course on basic analysis for students who had failed the original exam.
- **PhD student at University of Copenhagen**, May 2012 – April 2015
 - lectured a course on graph C^* -algebra (for high level master's students and PhD students)
 - substitute lectured in a course on advanced discrete mathematics,
 - supervised a Master's project (15 ECTS),
 - attended the course Introduction to University Pedagogy,
 - was a teacher in calculus, and linear algebra (twice),
 - both times teaching linear algebra, I was in charge of the web page and all other administrative tasks regarding the course (followed by approximately 400 students).
- **Teaching assistant at University of Copenhagen**, September 2008 – April 2012
 - was a teaching assistant in 16 courses total. These courses were amongst others: Analysis (three different levels), Complex Analysis, Discrete Mathematics (two different levels), Information Theory, Measure Theory, Probability and Statistics. Some of these were taught several times.

International research experience.

- April 2019 to July 2020, University of Wollongong, Australia.
- September 2017 to March 2019, University of Glasgow, Scotland.
- September 2016 to August 2017, University of Southampton, UK.
- January 2016 to February 2016, Institut Mittag-Leffler, Djursholm, Sweden.
- January 2013 to April 2013, University of Hawai'i, Hilo, USA.

Languages.

- Danish (fluently, born and raised in Denmark)
- English (fluently, born and raised by a British mother)
- German (very basic)

Other.

- From December 2019 to July 2020: organiser of the Operator Algebra and Noncommutative Geometry seminar at University of Wollongong. From May 2020 this was run as an online seminar.
- From September 2017 to December 2018, I was an organiser of the Analysis Seminar at University of Glasgow.
- From September 2011 to August 2015, I was in charge of the *Baby NCG Seminar* at the Department of Mathematical Sciences, University of Copenhagen, a seminar aimed mainly at Ph.D.-students and postdoc's affiliated with the Non-Commutative Geometry research group.
- I was an organiser of the conference *Young Mathematicians in C^* -Algebras (YMC^*A)*, Copenhagen, August 2015.
- I have attended the course Responsible Conduct of Research at University of Copenhagen.