Kevin Aguyar Brix, PhD
University of Wollongong, Australia
kabrix.math@fastmail.com

CURRICULUM VITAE OF KEVIN AGUYAR BRIX

CONTACT INFORMATION:

Email: kabrix.math@fastmail.com
Website: https://kevinaguyarbrix.github.io
Address: School of Mathematics and Statistics
University of Wollongong
NSW 2522, Australia

EMPLOYMENT AND AFFILIATION:

Feb 2020 – Feb 2021: *Postdoc*, University of Wollongong, Australia
Funded by a Carlsberg Foundation Internationalisation Fellowship;
Sep 2019 – Jan 2020: *External lecturer*, University of Copenhagen, Denmark
Temporary teaching position.

EDUCATION:

Sep 2019: Doctor of philosophy in Mathematics, University of Copenhagen
Title: *Topological dynamics, groupoids and C^*-algebras*,
Supervisor: Professor Søren Eilers;
May 2016: Master of Science in Mathematics, University of Copenhagen;
Feb 2014: Bachelor of Science in Mathematics, University of Copenhagen.

PUBLICATIONS:

- **K.A. Brix**, *Balanced strong shift equivalence, balanced in-split, and eventual conjugacy*, to appear in Ergodic Theory and Dynamical Systems (2020), arXiv preprint (arXiv:1912.05212).
- **K.A. Brix** and T.M. Carlsen, *C^*-algebras, groupoids and covers of shift spaces*, Transactions of the American Mathematical Society, Series B **7** (2020), 134–185.
- **K.A. Brix** and E. Scarparo, *C^*-simplicity and representations of topological full groups of groupoids*, Journal of Functional Analysis **227** (2019), no. 9, 2981–2996.
- **K.A. Brix** and T.M. Carlsen, *Cuntz-Krieger algebras and one-sided conjugacy of shifts of finite type and their groupoids*, Journal of the Australian Mathematical Society (2019), doi:10.1017/S1446788719000168.

Kevin Aguyar Brix, PhD
University of Wollongong, Australia
kabrix.math@fastmail.com

WORK IN PROGRESS:

K.A. Brix: *Sturmian shifts and their C^*-algebras*;
B. Armstrong, **K.A. Brix**, T.M. Carlsen and S. Eilers: *Conjugacy and graph C^*-algebras*;
K.A. Brix, T.M. Carlsen and A. Sims: *The ideal structure of Deaconu–Renault groupoid C^*-algebras*.

GRANTS:

Feb 2020 – Feb 2021: Carlsberg Foundation Internationalisation Fellowship (£42200)
Hosted by University of Wollongong, Australia.

RESEARCH TALKS AND PRESENTATIONS:

The following is a list of invited talks on or around my area of research.

Jun 2020:	Abend seminar (virtual), University of Western Sydney, Australia.
Nov 2019:	Seminar, Queen Mary University, London, England.
Nov 2019:	Oberseminar, WWU Münster, Germany.
Oct 2019:	Analysis seminar, KU Leuven, Belgium.
Jan 2019:	Analysis seminar, University of Glasgow, Scotland.
Dec 2018:	Danish Operator Aalgebra Seminar, University of Southern Denmark, Denmark.
Jun 2018:	Workshop in operator algebras and dynamics, University of the Faroe Islands, the Faroe Islands.
Feb 2018:	Seminar, University of Wollongong, Australia.
Jan 2018:	Seminar, University of Western Sydney, Australia.
May 2017:	CRM, Universitat Autónoma de Barcelona, Spain.
Sep 2016:	PhD seminar, University of Copenhagen, Denmark.

SERVICE TO THE PROFESSION AND COMMUNITY:

- I organise the Operator Algebra and NonCommutative Geometry seminar at the University of Wollongong, Australia.
- I have worked as referee for *Mathematica Scandinavica*, *Journal of Mathematical Analysis and Applications*, and *Studia Mathematica*.
- I was an organiser for the following conferences/workshops:
  - *Young Mathematicians in C^*-Algebra* (YMC^*A), 2017 and 2019, University of Copenhagen,
  - *Rigidity of C^*-algebras associated to dynamics*, 2017, University of Copenhagen,
  - *Danske Unge C^*-algebraikers Symposium* (DUC^*S) 2017, University of Aarhus.

- I was the Ph.D and Postdoc representative for the Local Collaboration Committee (lokal samarbejdsudvalg, LSU), January 2017 to January 2019, Department of Mathematical Sciences at the University of Copenhagen.

TEACHING EXPERIENCE:

2020:	MATH151 (general mathematics), lecturer
2019:	Mathematical modeling, (exercises)
	Numerical analysis, (exercises)
2016–2019:	Supervision of 1 Master's project (30 ECTS) and
	1 Graduate project (15 ECTS) with Søren Eilers
	Functional analysis, (exercises and occasional lectures)
	Numerical analysis, (exercises)
	Differential equations and control theory, (exercises).
2011–2016:	Introduction to Mathematics, (exercises)
	Linear algebra, (exercises)
	Discrete Mathematics, (exercises)
	Analysis 0, 1, and 2, (exercises)
	Measure and integration, (exercises)
	Mathematics for biologists, (exercises)
	Philosophy of science, (exercises).