

## CURRICULUM VITAE OF KEVIN AGUYAR BRIX

### CONTACT INFORMATION:

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### EMPLOYMENT AND AFFILIATION:

Mar 2022 – present: *Postdoc*, University of Glasgow, United Kingdom  
Funded by Independent Research Fund Denmark;  
Mar 2021 – Feb 2022: *Postdoc*, University of Glasgow, United Kingdom  
Funded by a Carlsberg Foundation Internationalisation Fellowship;  
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 AND PREPRINTS:

- **K.A. Brix**: *Sturmian subshifts and their  $C^*$ -algebras*, arXiv preprint.
- B. Armstrong, **K.A. Brix**, T.M. Carlsen, and S. Eilers: *Conjugacy of local homeomorphisms via groupoids and  $C^*$ -algebras*, arXiv preprint.
- **K.A. Brix**: *Balanced strong shift equivalence, balanced in-split, and eventual conjugacy*, Ergodic Theory and Dynamical Systems (2020), doi:10.1017/etds.2020.126.
- **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 **109** (2020), no. 3, 289–298.

#### WORK IN PROGRESS:

B. Armstrong, **K.A. Brix**, T.M. Carlsen, and S. Eilers: *Conjugacy of graphs*;  
**K.A. Brix**, T.M. Carlsen, and A. Sims: *The ideal structure of certain  $C^*$ -algebras*.

#### GRANTS:

Mar 2022 – Mar 2024: International postdoctoral grant, Independent Research Fund Denmark  
Hosted by University of Glasgow, United Kingdom.  
Mar 2021 – Mar 2022: Carlsberg Foundation Internationalisation Fellowship  
Hosted by University of Glasgow, United Kingdom.  
Feb 2020 – Feb 2021: Carlsberg Foundation Internationalisation Fellowship  
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.

May 2022: AMS Sectional Meeting (virtual), United States.  
Mar 2022: Aberdeen Algebra Seminar, University of Aberdeen, Scotland.  
Mar 2022: Operator Algebra Seminar, University of Southern Denmark, Denmark.  
Sep 2021: Seminar, Research Center for Operator Algebras (virtual),  
East China Normal University, China.  
Sep 2021: New York Noncommutative Geometry Seminar (virtual),  
Apr 2021: Operator Algebra and Noncommutative Geometry seminar (virtual),  
University of Wollongong, Australia.  
Mar 2021: United Kingdom Operator Algebras seminar (virtual), United Kingdom.  
Feb 2021: Operator Algebras seminar (virtual), Copenhagen/Odense, Denmark.  
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 Autònoma de Barcelona, Spain.  
Sep 2016: PhD seminar, University of Copenhagen, Denmark.

#### SERVICE TO THE PROFESSION AND COMMUNITY:

- I am a co-organiser of the Glasgow Analysis Seminar.
- I organised the Operator Algebra and NonCommutative Geometry seminar in 2020 at the University of Wollongong, Australia.
- I have worked as referee for various journals including *Transaction of the Americal Mathematical Society*, *Journal of Mathematical Analysis and Applications*, *Mathematica Scandinavica*, *Proceedings of the Royal Society of Edinburgh. Section A*, and *Studia Mathematica*.
- I helped organise the following conferences/workshops:
  - *Glasgow Late August Symbolic Dynamics, Groups, and Operators Workshop*, August 2022, University of Glasgow.
  - *Young Mathematicians in  $C^*$ -Algebra (YMC<sup>\*</sup>A)*, 2017 and 2019, University of Copenhagen,
  - *Rigidity of  $C^*$ -algebras associated to dynamics*, 2017, University of Copenhagen,
  - *Danske Unge  $C^*$ -algebraikers Symposium (DUC<sup>\*</sup>S)* 2017, University of Aarhus.
- I helped organise the *What is . . . seminar* at the University of Copenhagen (2019).
- 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).