

Sarunas Kaubrys

Curriculum Vitae

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Education

- 2021–Present **University of Edinburgh, Edinburgh, UK**, *PhD in Mathematics*, Supported by Carnegie Scholarship, Supervised by Ben Davison and Pavel Safronov.
- 2020–2021 **University of Cambridge, Cambridge, UK**, *Part III in Pure Mathematics Merit*, Supported by Roger Needham scholarship Wolfson College.
- 2016–2020 **University of Glasgow, Glasgow, UK**, *BSc in Mathematics First Class Honours*.

Research Interests

Cohomological Donaldson-Thomas theory, (noncommutative) derived algebraic geometry, geometric representation theory.

Publications and preprints

- 2024 *Cohomological Donaldson-Thomas theory for local systems on the 3-Torus*, arXiv.
- 2020 *The Cuntz-Toeplitz algebras have nuclear dimension one*, *J. Funct. Anal.* 279 (2020), Issue 7.

Invited Talks

- 2025 June **Commutative and noncommutative Calabi-Yau moduli, Conference in University of Strasbourg**.
- 2024 November **Imperial College MAGIC Seminar**.
- 2024 September **DT theory and derived categories workshop, Université Sorbonne**, *Donaldson-Thomas theory for local systems on the 3 Torus*, Link.
- 2024 August **Quantum Mathematics seminar, SDU**, *Donaldson-Thomas theory for local systems on the 3 Torus*.
- 2023 December **Algebraic topology seminar, Université Sorbonne Paris Nord**, *Donaldson-Thomas theory for local systems on the 3 Torus*.

Contributed Talks

- 2024 September **Invitation to derived geometry (contributed talk)**, **Padova**, *Exp map and DT theory*, Link.
- 2023 April **Vertex and Hall algebras workshop, Skye**, *BPS Lie algebra*.
- 2022 October **DT theory workshop**, **Aussois**, *DT invariants after Behrend*.
- 2022 April **EGRET seminar, University of Edinburgh**, *Global DT sheaf and lens spaces*.
- 2022 March **Stable envelopes reading group, University of Edinburgh**, *Nakajima quiver varieties*.
- 2022 February **Affine springer theory reading group, University of Edinburgh**, *Affine springer fibres*.
- 2022 February **Graduate student seminar, University of Edinburgh**, *Towards loop spaces in algebraic geometry*.
- 2021 November **Junior algebra seminar, University of Cambridge**, *Quivers, the Ringel-Hall algebra and the cohomological Hall algebra*.
- 2021 October **GLAMS examples seminar, University of Edinburgh**, *Sheaf theory via differential equations*.
- 2021 October **Perverse schobers seminar, University of Edinburgh**, *Constructible sheaves, their derived category, perverse sheaves*.

Organisation

2023 Organised an online reading group on factorisation algebras. Joint with Alexei Latyntsev and Guglielmo Nocera.

Teaching experience

2021-2024 **University of Edinburgh tutor** Calculus and applications(2024), Calculus and applications, Honours algebra (2023), Introduction to Linear algebra, Honours analysis skills, Calculus and Applications (2022)

June–July 2020 **University of Glasgow summer school tutor**

University Prizes and scholarships

PhD 2021-2024 Carnegie PhD Scholarship

Masters 2021 Jennings prize from Wolfson college for accomplishments during Masters programme

Fourth Year 2020 Janet R McAulay prize for performance in final year exams and the Weiglhofer prize for best honours project

Third year 2019 Cunninghame medal and prize and C E Strachan Will Trust Scholarship.

Second year 2018 Matthew A Muir Bursary and Dougall prize.

First year 2017 Cleland medal and Ewing prize, Dougall prize .