

Augustinas Jacovskis

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- RESEARCH INTERESTS** Algebraic geometry, derived categories of coherent sheaves, Bridgeland stability conditions, moduli spaces, semiorthogonal decompositions, Kuznetsov components, Hodge theory, categorical Torelli theorems, Fano varieties.
- EMPLOYMENT** *Postdoctoral Researcher* 2023–
University of Luxembourg, Luxembourg
- EDUCATION** *PhD Mathematics* 2019–2023
University of Edinburgh, United Kingdom
• Supervised by Professor Arend Bayer
- MSc Mathematical Sciences* 2018–2019
University of Oxford, United Kingdom
- BSc Mathematics* 2015–2018
Durham University, United Kingdom
- PUBLICATIONS/
PREPRINTS**
1. Cyclic covers: Hodge theory and categorical Torelli theorems (joint with Hannah Dell and Franco Rota), 2023, *submitted*
<https://arxiv.org/abs/2310.13651>, pdf
 2. Brill–Noether theory for Kuznetsov components and refined categorical Torelli theorems for index one Fano threefolds (joint with Zhiyu Liu and Shizhuo Zhang), 2022, *submitted*
<https://arxiv.org/abs/2207.01021>, pdf
 3. Infinitesimal categorical Torelli theorems for Fano threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang), 2023, **J. Pure Appl. Algebra**
<https://arxiv.org/abs/2203.08187>, pdf
 4. Categorical Torelli theorems for Gushel–Mukai threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang), 2024, **J. London Math. Soc.**
<https://arxiv.org/abs/2108.02946>, pdf

TEACHING EXPERIENCE

TA 2023–
University of Luxembourg, Luxembourg

- Courses: Analyse 3, Algèbre 2, Linear Algebra 1 & 2, Master's in Mathematics Refresher.

TA 2019–2023
University of Edinburgh, United Kingdom

- Courses: Proofs and Problem Solving, Calculus and its Applications, Honours Algebra, Engineering Mathematics 1A and 1B, MathsBase.
- Associate Fellow of the Higher Education Academy.

TALKS

Invited

- Categorical Torelli for double covers June 2024
Séminaire ALPE, Toulouse, France
- Categorical Torelli for Fano threefolds May 2024
DOGS Seminar, Online
- Categorical Torelli for double covers December 2023
STEW, Oslo, Norway
- Categorical Torelli for X_2 October 2023
Luxembourg Algebraic Geometry Seminar, Luxembourg
- Brill–Noether Theory for Kuznetsov Components January 2023
GEARS Seminar, Edinburgh, United Kingdom
- Categorical Torelli theorems for prime Fano threefolds March 2022
KCL/UCL Junior Geometry Seminar, Edinburgh, United Kingdom

Contributed

- The period map for Gushel–Mukai threefolds December 2022
Workshop on Singularities and Mirror Symmetry, Glasgow
- Bayer–Macri's Positivity Lemma January 2022
Bridgeland stability seminar, Bologna/Chemnitz/Nancy/online
- Geometry from derived categories October 2021
Hodge Club, Edinburgh
- Brill–Noether theory for Kuznetsov components May 2021
Internal derived work in progress seminar, Edinburgh/online
- Categorical Torelli theorems for prime Fano threefolds October 2020
Internal derived work in progress seminar, Edinburgh/online

- Cubic hypersurfaces and rationality October 2020
Hodge Club, Edinburgh/online
- A Brief Introduction to Bridgeland Stability Conditions February 2020
Junior Structure and Symmetry Day, Edinburgh
- Blow-ups November 2019
Reading group on resolution of singularities via weighted blowups, Edinburgh
- Homological Mirror Symmetry for the Cylinder October 2019
Reading group on homological mirror symmetry by examples, Edinburgh

SERVICE

- Referee for *Mathematische Zeitschrift*, *Mathematische Nachrichten*, *Annali di Matematica Pura ed Applicata*

LANGUAGES

English, Lithuanian, Python.

CITIZENSHIP

British

**ACADEMIC
REFERENCES**

Available upon request.