

Augustinas Jacovskis

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RESEARCH INTERESTS Algebraic geometry, derived categories of coherent sheaves, Bridgeland stability conditions, moduli spaces of Bridgeland stable objects, Kuznetsov components, Hodge theory, categorical Torelli theorems, Fano threefolds.

EDUCATION

<i>PhD Mathematics</i>	2019–2023 (expected)
University of Edinburgh, Edinburgh, United Kingdom	
<ul style="list-style-type: none">Supervised by Professor Arend Bayer, with a focus on proving categorical Torelli-style theorems for prime Fano threefolds in terms of their Kuznetsov components using the techniques of Bridgeland stability conditions on derived categories.	
<i>MSc Mathematical Sciences</i>	2018–2019
University of Oxford, Oxford, United Kingdom	
<i>BSc Mathematics</i>	2015–2018
Durham University, Durham, United Kingdom	

PUBLICATIONS

- Brill–Noether theory for Kuznetsov components and refined categorical Torelli theorems for index one Fano threefolds (joint with Zhiyu Liu and Shizhuo Zhang)
<https://arxiv.org/abs/2207.01021>
- Infinitesimal categorical Torelli theorems for Fano threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang)
<https://arxiv.org/abs/2203.08187>
- Categorical Torelli theorems for Gushel–Mukai threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang)
<https://arxiv.org/abs/2108.02946>

EMPLOYMENT

<i>Tutor</i>	2019–
University of Edinburgh, Edinburgh, United Kingdom	
<ul style="list-style-type: none">Tutored courses on introductory proof writing, calculus, linear algebra, and abstract algebra (groups, rings, and modules).Associate Fellow of the Higher Education Academy	

TALKS

• Categorical Torelli theorems for prime Fano threefolds KCL/UCL Junior Geometry Seminar, London	March 2022
• Bayer-Macri’s Positivity Lemma Bridgeland stability seminar, Online	January 2022
• Geometry from derived categories Hodge Club, Edinburgh	October 2021
• Brill-Noether theory for Kuznetsov components Internal derived work in progress seminar, Edinburgh/online	May 2021
• Categorical Torelli theorems for prime Fano threefolds Internal derived work in progress seminar, Edinburgh/online	October 2020

- 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

LANGUAGES Python, \LaTeX , English (native), Lithuanian (native).

REFERENCES Available upon request.