Augustinas Jacovskis

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RESEARCH INTERESTS

Algebraic geometry, derived categories of coherent sheaves, Bridgeland stability conditions, moduli spaces, Kuznetsov components, Hodge theory, categorical Torelli theorems, Fano varieties.

EDUCATION

PhD Mathematics 2019–2023 (expected)
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. Brill–Noether theory for Kuznetsov components and refined categorical Torelli theorems for index one Fano threefolds (joint with Zhiyu Liu and Shizhuo Zhang), *submitted*
   https://arxiv.org/abs/2207.01021, pdf

2. Infinitesimal categorical Torelli theorems for Fano threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang), *submitted*
   https://arxiv.org/abs/2203.08187, pdf

3. Categorical Torelli theorems for Gushel–Mukai threefolds (joint with Xun Lin, Zhiyu Liu and Shizhuo Zhang), *submitted*
   https://arxiv.org/abs/2108.02946, pdf

TEACHING EXPERIENCE

Tutor 2019–
University of Edinburgh, United Kingdom
- Tutored and graded courses on introductory proof writing, calculus, linear algebra, and abstract algebra (groups, rings, and modules).
- Associate Fellow of the Higher Education Academy.

TALKS

Invited
- TBA Spring 2023
  Sheffield Algebraic Geometry Seminar, Sheffield
- Categorical Torelli theorems for prime Fano threefolds March 2022
  KCL/UCL Junior Geometry Seminar, London

Contributed

- TBA   January 2023
  GEARS Seminar, Edinburgh

- The period map for Gushel–Mukai threefolds   December 2022
  Workshop on Singularities and Mirror Symmetry, Glasgow

- Bayer–Macrì'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

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

**ACADEMIC
REFERENCES**
- Professor Arend Bayer, University of Edinburgh
  arend.bayer@ed.ac.uk

- Professor Paolo Stellari, Università degli Studi di Milano
  paolo.stellari@unimi.it

- Dr Chunyi Li, University of Warwick
  C.Li.25@warwick.ac.uk

- Dr Xiaolei Zhao, University of California, Santa Barbara
  xlzhao@math.ucsb.edu

- Dr David Quinn, University of Edinburgh (*teaching reference*)
  d.quinn@ed.ac.uk