

Aleksandra Utiralova

CONTACT INFORMATION

University of Oregon
Department of Mathematics
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Eugene, OR 97401 USA

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RESEARCH INTERESTS

Representation Theory, Category Theory
In particular: Tensor categories, Verlinde categories, Deligne categories, Categorical actions

EMPLOYMENT

University of Oregon
Paul Olum Postdoctoral Fellow

Sep' 25 – now

University of California Berkeley
Morrey Visiting Assistant Professor

Jul' 22 – Jun'25

EDUCATION

Massachusetts Institute of Technology
PhD Candidate, Mathematics

Sep' 17 - May 22

- Dissertation Topic: “Harish-Chandra bimodules in Deligne categories”
- Advisor: Pavel Etingof

Higher School of Economics, Moscow
B.S. in Mathematics

Sep' 13 - Jun' 17

- Diploma Topic: “Olshanski’s Centralizer Construction and Deligne Tensor Categories”
 - Advisor: Leonid Rybnikov
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PUBLICATIONS

Victor Ostrik, Alexandra Utiralova, “A non-semisimple Witt class”,
arXiv preprint: arXiv:2602.10519

Aleksandra Utiralova, “The highest weight theory for Representations of General Linear groups in the Verlinde categories in positive characteristic”,
arXiv preprint: arXiv:2501.15778, submitted

Aleksandra Utiralova, “Harish-Chandra Bimodules of Finite K-type in the Deligne Categories”,
Appendix joint with Serina Hu,
International Mathematics Research Notices, Volume (2023)
<https://doi.org/10.1093/imrn/rnac327>

Aleksandra Utiralova, “Harish-Chandra Bimodules in the Deligne Category $\text{Rep}(GL_t)$ ”,
Transformation Groups (2022)
<https://doi.org/10.1007/s00031-021-09689-2>

Alexandra Utiralova, “Olshanski’s Centralizer Construction and Deligne Tensor Categories”,
arXiv:1901.08370

TALK
RECORDINGS

Harish-Chandra bimodules in complex rank,
Algebra Seminar, Uppsala University

Representations of general linear groups in the Verlinde categories, **Symmetric Tensor Categories and Representation Theory workshop**, IPAM

Some new examples of braided finite tensor categories associated with tilting modules for quantum groups at roots of unity, **New Developments in Tensor Categories workshop**, Banff International Research Station

TEACHING
EXPERIENCE

Spring	2018	Mentor in PRIMES program
Fall	2018	Mentor in PRIMES program
Spring	2020	Teaching Assistant, Differential Equations
Spring	2022	Mentor in PRIMES program
Summer	2022	Mentor in Yulia’s Dream program
Fall	2022	Lecturer, Introduction to Analysis
Spring	2023	Lecturer, Introduction to Abstract Algebra
Fall	2023	Lecturer, Introduction to Abstract Algebra
Spring	2024	Lecturer, Introduction to Abstract Algebra
Fall	2024	Lecturer, Introduction to Abstract Algebra
Fall	2024	Lecturer, Lie groups
Spring	2025	Lecturer, Introduction to Abstract Algebra
Fall	2025	Lecturer, Discrete mathematics
Winter	2026	Lecturer, Calculus I

RELEVANT
SKILLS

Languages: English, Russian
I am in the process of learning French and Italian.