

# JESSE D. KEYES

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## ACADEMIC POSITIONS

**University of Kentucky**, Lexington, KY

- Graduate Teaching Assistant

## EDUCATION

**University of Kentucky**, Lexington, KY

- M.A. Mathematics

**Eastern Kentucky University**, Richmond, KY

- B.S. Mathematics

**Budapest Semester in Mathematics**, Budapest, Hungary

- Semester Abroad (Spring 2019)

## INVITED TALKS

- Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences - Algebraic Invariants in Topology (April 2025)
- AMS Special Session on Homotopy Theory and Algebraic K-Theory - Bredon Homology and The Burnside Mackey Functor (March 2025)

## CONTRIBUTED TALKS

- Graduate Student Topology and Geometry Conference (GSTGC) - Bredon Homology and The Burnside Mackey Functor (April 2025)
- Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences - An Introduction to Equivariant Stable Homotopy Theory (April 2023)

## PREPRINTS

- The  $RO(\mathcal{K})$ -graded Coefficients of  $H\mathbb{A}$ : <https://arxiv.org/abs/2503.03173>
- The  $RO(\mathcal{K})$ -graded Homotopy of Klein-four normed Mackey functors: <https://arxiv.org/abs/2507.12423>

## SEMINAR TALKS

- University of Kentucky Topology Seminar
  - An Introduction to Bredon Homology Valued in Mackey Functors (Oct 2022)
  - The Picard Group of the  $C_n$ -Equivariant Stable Homotopy Category (April 2023)

- The Bigraded Homotopy of  $C_2$ -Equivariant  $H\mathbb{A}$  (Oct 2023)
- The Tate Method and Equivariant Eilenberg-MacLane Spectra (March 2024)
- Bredon Homology and the Burnside Mackey Functor (January 2025)
- eCHT Kan Seminar
  - Homotopy Theory and Model Categories (Sept 2023)

#### SEMINARS AND WORKSHOPS

- **Talbot Workshop - Topological Cyclic Homology of Ring Spectra** (Fall 24)
- **eCHT Research Workshop on Hopf Rings** (Summer 24)
- **eCHT Hopf Rings Seminar** (Spring 24)
- **eCHT Kahn Seminar** (Fall 23)
- **Equivariant Homotopy Theory in Context - Introduction to Equivariant Homotopy Theory** (Spring 25)
- **Equivariant Homotopy Theory in Context - New Horizons For Equivariance in Homotopy Theory** (Spring 2025)

#### TEACHING EXPERIENCE

##### Primary Instructor:

- University of Kentucky
  - MA 113: Calculus 1 (Summer 2022)

##### Recitation Leader

- University of Kentucky
  - MA 113: Calculus 1 (Fall 2022)
  - MA 114: Calculus 2 (Spring 2023, 2024)
  - MA 213: Calculus 3 (Fall 2023)
  - MA 162: Finite Math & Its Applications - Lead TA (Spring 2025)

##### Grader

- University of Kentucky
  - MA 322: Matrix Algebra and Applications (Fall 2024)