

About me (Daniel Orr)

- I am member of the research group in Algebra, Algebraic Geometry, and Combinatorics.
- My research lies in a branch of abstract algebra known as *representation theory*. The basic idea of this subject is to use symmetry to understand the structure of complicated objects.
- Interplay with algebraic geometry and combinatorics is essential.
- *Some keywords*: Lie algebras, Hecke algebras, Macdonald polynomials

Current and former Ph.D. students

- Amanda Welch, Ph.D. (2019)

- ▶ Currently Visiting Assistant Professor at College of the Holy Cross
- ▶ Applying for tenure-track positions
- ▶ Research article based on thesis currently submitted and under review

- Benjamin Goodberry, Ph.D. (current)

- ▶ Plans to graduate in Spring 2022
- ▶ Work on combinatorics of nonsymmetric Macdonald polynomials

- Richard Shaplin, Ph.D. (current)

- ▶ First-year in the Ph.D. program
- ▶ M.S. under my direction (2020)
- ▶ Work on Coxeter groups and Hecke algebras

Want to find out more?

- Check out our [research group page](#) (profiles, seminar info, ...)
- [Information on the algebra prelim exam](#)
- Questions? Feel free to reach out via email (dorr@vt.edu).