Robert P. Laudone

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▬ Education

2015–2020	**Ph.D. Mathematics**, *University of Wisconsin-Madison*. Advisor(s): Steven Sam, Daniel Erman
2011–2015	**B.S. Mathematics**, *Boston College*, Summa Cum Laude.

▬ Positions

2020-2023	**NSF Postdoctoral Assistant Professor and Research Fellow**, *University of Michigan*. Mentor: Andrew Snowden

▬ Awards, Grants, Honors

2020-2023	**NSF Postdoctoral Research Fellowship**, *National Science Foundation*.
2019	**Excellence in Research Prize**, *UW Madison*.
2019	**Letters and Science Teaching Fellowship**, *UW Madison*.
2018	**Departmental Mid-Career TA Award**, *UW Madison*.
2017-2020	**Research Training Grant Fellowship**, *(4 summers and 4 semesters)*.
2016	**Honored Instructor Teaching Award**, *UW Madison*.
2015	**Paul J. Sally Jr. Distinguished Alumnus in Mathematics**, *Boston College*.

▬ Publications

7. **A counterexample to a Gröbner approach for noetherianity of monomial ideals in twisted commutative algebras**.
Submitted.
arXiv

6. **Syzygies of $\mathbf{P}^1 \times \mathbf{P}^1$: data and conjectures**,
with Juliette Bruce, Daniel Corey, Daniel Erman, Steve Goldstein, Jay Yang
J. of Algebra, **593** (2022), 589–621.
arXiv | Journal

5. **Equivariant prime ideals for infinite dimensional supergroups**,
with Andrew Snowden.
Submitted.
arXiv

4. **Representation Stability for Sequences of 0-Hecke Modules**.
   Algebraic Comb., **4** (2021), no. 4, 619–661
   arXiv | Journal

3. **Computing Schur complexes**.
   with Michael K. Brown, Hang Huang, Michael Perlman, Claudíu Raicu, Steven V Sam,
   João Pedro Santos
   J. Softw. Alg. Geom., **9** (2019), 111–119.
   arXiv | Journal

2. **Syzygies of secant ideals of Plücker embedded Grassmannians are generated in bounded degree**.
   Submitted
   arXiv

1. **The spin-Brauer diagram algebra**.
   Journal of Algebraic Comb., **50** (2019), no. 2, 191–224.
   arXiv | Journal

━━━━━ Invited Talks

- **Commutative Algebra and Algebraic Geometry Seminar:** *Gröbner approaches to noetherianity of twisted commutative algebras*, University of Minnesota - Twin Cities. October 2022.

- **Workshop on Algebra and Representation Theory, Held on Oregonian Grounds: GL**-*varieties guest lecture*, University of Oregon. June 2022.

- **Texas A&M University Geometry seminar:** *Equivariant prime ideals for infinite dimensional supergroups*, Texas A&M. May 2022.

- **Talks About Progress in Representation Stability**, *Representation stability for sequences of 0-Hecke modules*, University of Michigan. December 2020, Video.

- **Online Talks to Explain Representation Stability:** *A counterexample to a Gröbner approach for noetherianity of monomial ideals in twisted commutative algebras*, University of Michigan. November 2020.

- **UW-Madison Algebraic Geometry Seminar:** *Representation stability for sequences of 0-Hecke modules*, University of Wisconsin. October 2019.

- **Utah Commutative algebra seminar:** *Representation stability for sequences of 0-Hecke modules*, University of Utah. October 2019.

- **Utah Algebra student seminar:** *An introduction to representation stability*, University of Utah. October 2019.

- **UCSD Combinatorics Seminar:** *Representation stability for sequences of 0-Hecke modules*, University of California San Diego. May 2019.

- **UNL KUMUNUJr:** *Secant ideals of Plücker embedded Grassmannians*, University of Nebraska-Lincoln. April 2019.

- **UW-Madison Combinatorics Seminar:** *Secant ideals of Plücker embedded Grassmannians*, University of Wisconsin-Madison. March 2018.
- **DePaul Algebra Seminar:** *The spin-Brauer diagram algebra*, DePaul University. November 2017.
- **UW-Madison Algebraic Geometry Seminar:** *The spin-Brauer diagram algebra*, University of Wisconsin-Madison. March 2017.
- **Brown SUMS Conference** *Coloring techniques for pattern avoidance over an infinite sequence*, Brown University. March 2015.
- **Joint Mathematics Meetings:** *Coloring techniques for pattern avoidance over an infinite sequence*, San Antonio. January 2015.

Teaching Experience

University of Michigan
2020-Current
- Math 465: Introduction to Combinatorics (Fall 2021)
- Math 217: Linear Algebra (Winter 2022, Fall 2022)
- Average student evaluation score: 4.95/5.00
- 98% of students, across all classes, agreed that "Overall, Robert Laudone was an excellent teacher"

University of Wisconsin-Madison
2015-2020
- Math 221: Calculus 1 (Fall 2015, Fall 2016)
- Math 222: Calculus 2 (Spring 2016, Fall 2017, Fall 2018, Fall 2019)
- Selected as a TA coordinator, Spring 2016 (overseeing first-year TAs)
- Selected for TA training program, 2016
- Average student evaluation score: 4.85/5.00
- 94% of students, across all sections, agreed that "Instructor's teaching is truly outstanding"

Other Outreach

Directed Reading Program Mentor
- 2022: Graph theory and combinatorics (Hall's theorem)
- 2018: Symmetric functions
- 2017: Representation theory of the symmetric group
- 2016: Graph theory and combinatorics

Workshop Organizer
- International TA training program at UW-Madison (Summer 2016-2017, 2019)
- Letters and Sciences TA training at UW-Madison (Summer 2019)