

PAUL LEVAN

Curriculum Vitae

Department of Mathematics
University of Notre Dame
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ACADEMIC INTERESTS

My current research interests are in Algebraic Geometry and Singularity Theory; particularly in the study of singularities of stratifications of homogeneous spaces of algebraic groups. I also have continuing interests in Arithmetic Geometry, Algebraic and Analytic Number Theory, and Combinatorics.

EDUCATION

- 2017 - 2023** Ph.D. Mathematics – University of Notre Dame, *Notre Dame, Indiana*
Advisor: Claudiu Raicu
Local Euler Obstructions and Chern–Mather Classes on Schubert Varieties
- 2017 - 2019** M.S., Mathematics – University of Notre Dame, *Notre Dame, Indiana*
- 2013 - 2017** B.S., Mathematics – Gannon University, *Erie, Pennsylvania*
– *Minor in Statistics*

TEACHING EXPERIENCE

- Visiting Assistant Professor** *University of Notre Dame* —
Elements of Calculus *Fall, 2023; Spring, 2024*
Calculus *I Spring, 2024*
- Instructor** *University of Notre Dame* —
Calculus *II Spring, 2022*
Calculus *B Summer, 2022 – Virtual*
- Teaching Assistant** *University of Notre Dame* —
Calculus *A Fall, 2018, 2019*
Calculus *B Spring, 2019; Spring, 2020 – Hybrid*
Calculus *III Fall, 2020 – Virtual; Spring, 2021 – Hybrid*
Glynn Mathematics Seminar *Fall, 2021*
Calculus *I Spring, 2023 – Head TA and Flipped*
- Grader** *University of Notre Dame* —
Basic Graduate Algebra *I Fall, 2022*
- Teaching Assistant** *Gannon University* —
Calculus *I Fall, 2014, 2015, 2016*
Calculus *II Spring, 2015, 2016, 2017*

PUBLICATIONS

2. **Euler obstructions for the Lagrangian Grassmannian** (joint with Claudiu Raicu). *Algebraic Combinatorics*, **5**, 299-318, 2022.
1. **Improved Bounds on the Anti-Waring Number** (joint with David Prier). *Journal of Integer Sequences*, **20**, Article 17.8.7, 2017.

ACADEMIC HONORS AND AWARDS

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| 2022 | Outstanding Graduate Student Teacher Award – <i>University of Notre Dame</i> |
| 2017 | Graduated Summa cum Laude – <i>Gannon University</i> |
| 2017 | Academic Award for Excellence in Mathematics – <i>Gannon University</i> |
| 2017 | Sigma Xi Undergraduate Research Conference Award Winner – <i>Penn State Behrend</i> |

SERVICE

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| 2020 | Graduate Mentor for Undergraduate Course on Commutative Algebra |
| 2019 | Referee – <i>Journal of Integer Sequences</i> |
| 2019 | Graduate Mentor for Undergraduate Directed Reading on Local Class Field Theory |
| 2013 - 2017 | Undergraduate Mentor and Counselor for TRIO programs including:
Upward Bound Math and Science
Talent Search
GoCollege |

CONFERENCES

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| 2020 | Arizona Winter School: Nonabelian Chabauty – <i>University of Arizona</i> |
| 2019 | CMND : Thematic Program in Commutative Algebra and its Interaction with Algebraic Geometry – <i>University of Notre Dame</i> |
| 2018 | Connecticut Summer School in Number Theory – <i>University of Connecticut</i> |
| 2018 | Arizona Winter School: Iwasawa Theory – <i>University of Arizona</i> |