

# PAUL LEVAN

## Curriculum Vitae

Department of Mathematics  
University of Notre Dame  
Notre Dame, IN 46556

Email: plevan@nd.edu  
Website: paullevan.github.io

## ACADEMIC INTERESTS

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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

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- 2017 - 2023** Ph.D. Mathematics – University of Notre Dame, *Notre Dame, Indiana*  
Advisor: Claudiu Raicu
- 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

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- 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
- 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

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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 – *University of Notre Dame*
- 2017** Graduated Summa cum Laude – *Gannon University*
- 2017** Academic Award for Excellence in Mathematics – *Gannon University*
- 2017** Sigma Xi Undergraduate Research Conference Award Winner – *Penn State Behrend*

## SERVICE

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- 2020** Graduate Mentor for Undergraduate Course on Commutative Algebra
- 2019** Referee – *Journal of Integer Sequences*
- 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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- 2022** CMND : Thematic Program in p-adic L-functions and Eigenvarieties – *Notre Dame*
- 2020** Arizona Winter School: Nonabelian Chabauty – *University of Arizona*
- 2019** CMND : Thematic Program in Commutative Algebra and its Interaction with Algebraic Geometry – *University of Notre Dame*
- 2018** Connecticut Summer School in Number Theory – *University of Connecticut*
- 2018** Arizona Winter School: Iwasawa Theory – *University of Arizona*