

Anurag Kumar

Undergraduate at the University of Maryland, College Park

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interests

- I am primarily interested in algebraic and arithmetic geometry.

education

- **B.S., Mathematics** - University of Maryland, College Park (expected Spring 2027; GPA 3.972)

mathematical activities

- Attend and give talks in the [UMD \$p\$ -adic geometry RIT](#) and the [six-functor formalisms student seminar](#).
- Guided reading on various topics in number theory, algebraic geometry, and algebraic topology.
- Attended conferences at the Brin MRC on number theory, higher structures in geometry, and the [\$p\$ -adic Simpson correspondence](#).

expository talks

6. *Computing dualizing objects*. - UMD Six-functor formalisms student seminar, March 5th, 2026
5. *Basics of ∞ -categories*. - UMD Six-functor formalisms student seminar, February 5th, 2026.
4. *Drinfeld level structures*. - MATH 808L final presentation, December 15th, 2025.
3. *Lubin-Tate theory and $\mathcal{O}_{X_S}(1)$* . - UMD p -adic geometry RIT, November 14th, 2025.
2. *Some adic geometry and perfectoid fields*. - UMD p -adic geometry RIT, June 20th and July 11th, 2025
1. *Deligne's proof of geometric class field theory*. - MATH 621 final presentation, May 9th, 2025

awards

- *Spring '26* - Dept. of Mathematics Aziz Scholarship
- *Spring '25* - Dan Shanks Award

teaching

- *Fall '25* - Grader for MATH 402 (Algebraic Structures).