

# Bryson Owens

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## Education

- **August, 2021 – Present:** Ph.D. Student, University of Illinois at Chicago
- **May, 2020:** B.S. Mathematics, Minor in Spanish, Colorado State University

## Research

- **Research Interests:** My current research interests are broadly commutative algebra and algebraic geometry
- **Spring 2020 – Fall 2020:** Research Project – Intersection Theory on Moduli Spaces of Curves, generalizing results from Summer 2019, advised by Dr. Renzo Cavalieri
- **Summer 2019:** REU at Colorado State University – Intersection Theory on Moduli Spaces of Admissible Covers, advised by Dr. Renzo Cavalieri

## Publications

1. *Boundary Expression for Chern Classes of the Hodge Bundle on Spaces of Cyclic Covers*, with Seamus Somerstep and Renzo Cavalieri. *Involve, a Journal of Mathematics* 14-4 (2021), 571–594. DOI 10.2140/involve.2021.14.571

## Preprints

1. (2021) *All the  $\lambda_1$ 's on Cyclic Admissible Covers*, with Seamus Somerstep and Renzo Cavalieri. <https://arxiv.org/abs/2112.13892>

## Teaching

- **Summer 2024:** Instructor – MATH 090 Summer Enrichment Math Workshop, UIC
- **Spring 2024:** Teaching Assistant – MATH 181 Calculus II, UIC
- **Fall 2023:** Instructor – MATH 090 Intermediate Algebra, UIC
- **Summer 2023:** Teaching Assistant – MATH 180 Calculus I Summer Edge Program, UIC
- **Spring 2023:**
  - Instructor – MATH 182 Emerging Scholars Workshop for Calculus II, UIC
  - Teaching Assistant – MATH 181 Calculus II, UIC

- **Fall 2022:** Teaching Assistant – MATH 121 Precalculus, UIC
- **Fall 2021:** Teaching Assistant – MATH 180 Calculus I, UIC

## Talks and Presentations

- **Jan. 2024:** UIC Commutative and Homological Algebra Graduate Seminar – *Structure of Smooth, Unramified, and Étale Homomorphisms*
- **Mar. 2023:** UIC Commutative and Homological Algebra Graduate Seminar – *Cohen-Macaulay Rings and Flatness*
- **Feb. 2023:** UIC Commutative and Homological Algebra Graduate Seminar – *Introduction to Local Cohomology*
- **Oct. 2021:** UIC Graduate Algebraic Geometry Seminar – *Intersection Theory and Admissible Covers*
- **Jan. 2020:** JMM Undergraduate Poster Session –  $\lambda_1$  on Spaces of Admissible Covers

## Grants

- **Spring 2022 – Summer 2022:** NSF RTG Pre-doctoral Fellowship – UIC
- **Summer 2019:** Research Grant – CSU