

ANDREA

BOURQUE

CONTACT INFO

E-mail about99@lsu.edu

EDUCATION

M.S. in Mathematics 2022-2024

Louisiana State University | Baton Rouge, Louisiana, USA

- In progress
- Working with Pramod Achar.

B.S. in Mathematics 2020-2022

Louisiana State University | Baton Rouge, Louisiana, USA

- Graduated with *summa cum laude*; college honors; university medal
- Honors Thesis: " $GL(1|1)$ Graph Connections"
- Minor in Physics

ACHIEVEMENTS

- | | |
|---------------------|---|
| Awards | <ul style="list-style-type: none">• 2022 Betti and Robert Giles Senior Mathematics Award• 2019 AMC 12 A Distinguished Honor Roll |
| Scholarships | <ul style="list-style-type: none">• 2021 Peg and Tom Madden Mathematics Research Scholarship |

PUBLICATIONS

Articles **A. Bourque** and A. Zeitlin (2023). "Flat $GL(1|1)$ -connections and fatgraphs". In: *Journal of Geometry and Physics* 191. URL: <https://arxiv.org/abs/2208.08033>.

CONFERENCES

- | | |
|--|------------------|
| Various undergraduate research conferences | 2019-2022 |
| <ul style="list-style-type: none">• Presented my research on $GL(1 1)$ graph connections. | |
| Bayou Arithmetic Research Days (BARD) 1 | 2022 |
| <i>LSU, Baton Rouge, Louisiana</i> | |
| <ul style="list-style-type: none">• Gave a "lightning talk" on Schubert varieties and partitions. | |
| MSRI/SLMath 992 - Derived Algebraic Geometry | 2023 |
| <i>UC Berkeley, California</i> | |
| Oberwolfach Workshop 2331 - Teichmüller Theory | 2023 |
| <i>Mathematisches Forschungsinstitut Oberwolfach, Germany</i> | |