

ANDREA

BOURQUE

CONTACT INFO

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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**
- 2022 Betti and Robert Giles Senior Mathematics Award
 - 2019 AMC 12 A Distinguished Honor Roll

- Scholarships**
- 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

- Presented my research on $GL(1|1)$ graph connections.

Bayou Arithmetic Research Days (BARD) 1 2022
LSU, Baton Rouge, Louisiana

- Gave a "lightning talk" on Schubert varieties and partitions.

MSRI/SLMath 992 - Derived Algebraic Geometry 2023
UC Berkeley, California

Oberwolfach Workshop 2331 - Teichmüller Theory 2023
Mathematisches Forschungsinstitut Oberwolfach, Germany

- Gave a talk titled "Flips on $GL(1|1)$ Graph Connections."