

# Alex De Biasio

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## Education

### Williams College

*B.A., Mathematics*

Williamstown, MA

Expected May 2028

- GPA: 3.85/4.0; Dean's List
- **Teaching Assistant, Abstract Algebra** (Fall 2025): Selected as a sophomore; leading TA sessions and grading proofs for 25 students
- **Galois Theory Tutorial** (Spring 2026): Admitted as a sophomore to junior/senior-level tutorial with Prof. Susan Loepf
- Coursework: Commutative Algebra, Algebraic Number Theory, Topology, Data Structures, Probability

### Stanford Pre-Collegiate Studies

*University-Level Online Mathematics*

Online

2021–2024

- 4-year sequence: Abstract Algebra, Real/Complex Analysis, Linear Algebra, ODEs, PDEs (GPA: 3.75/4.0)

## Experience

### Russell Research

*Data Engineering Intern*

East Rutherford, NJ

Summer 2025

- Implemented data pipeline components in C#/.NET; wrote unit tests with NUnit

### Russell Research

*Machine Learning Intern*

East Rutherford, NJ

Summer 2024

- Built and evaluated ML classification approaches in PyTorch on a 140k-question dataset
- Designed confidence-based sampling tools for efficient data labeling; compared 27 model configurations

## Technical Skills

**Languages:** Java, Python, C#/.NET, L<sup>A</sup>T<sub>E</sub>X

**Technologies:** Git, PyTorch, NUnit, Visual Studio

**Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Unit Testing

## Activities

### Math Book Club

Williams College, Fall 2024–Present

### Math Club Founder

Pascack Valley High School, Spring 2023

### Peer Tutor, Math and Physics

Pascack Valley High School, 2022–2024

## Additional

**Languages:** English (native), Italian (fluent)

**Interests:** Classical and jazz piano (16 years), music composition, climbing, bouldering, hiking

**References:** Available upon request