ANDREW FARGO

Curriculum Vitae

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Education

Grinnell College, Grinnell, IA   Fall 2023–Present

B.S., Mathematics; Cumulative GPA: 4.0.
Coursework includes P-Adic Integers Seminar, Representation Theory, Complex Analysis, Real Analysis, Abstract Algebra, Number Theory, Linear Algebra, Symbolic Logic, Functional and Object-Oriented Programming, Tone Linguistics, Morphology, German, and Latin.
Conducted an independent study on Mathematical Formalizations of Minimalist Grammars.

Research Experience

Independent Project, Grinnell, IA   Fall 2025

On Chomsky's New Minimalism and its algebraic formalizations. Read Marcolli, Chomsky, and Berwick's *Mathematical Structure of Syntactic Merge*. Prepared a syllabus, lecture notes, and homework as open-source course materials for an undergraduate course on the topic.

Research Assistant, Grinnell, IA   Summer 2025–Present

Researched the combinatorics of transfer systems under Professor Christy Hazel. Learned fundamentals of category theory and poset combinatorics to produce a novel result. Wrote a paper and poster covering the result.

Service and Teaching Experience

Mathematics School Educational Policy Committee, Grinnell College   Fall 2025–Present

Elected to serve on a committee acting as a liason between faculty and mathematics students. Responsibilities include conducting faculty reviews, attending faculty and college meetings, and planning, budgeting, and executing regular events (such as student seminars, social events, et cetera.)

Linguistics School Educational Policy Committee, Grinnell College   Fall 2025–Present

Idem.

Math Lab Tutor, Grinnell College   Fall 2024–Present

Guides students through questions—focusing on helping them build a more intuitive understanding of calculus concepts, a builds connections with undergraduate mathematics community.

Community Advisor, Grinnell College   Fall 2024–Spring 2025

Established a self-governing community within my residence hall, created and led events to promote student well-being, referred and supported residents as they managed academic and personal issues, completed administrative tasks as needed.

Lead Instructor, iD Tech Camps; Lisle, IL   Summer 2023, 2024

Taught recurring week-long camps to children aged 5-18 on topics including Python, Java, application programming, peer collaboration, and game development, demonstrates leadership and served as a point of contact for other instructors in need of assistance, performs additional administrative responsibilities as needed.

Awards and Honors

Goldwater Scholarship, Nominee   Fall 2025

Dean's List, Grinnell College   Fall 2023, Fall 2024, Spring 2025

In recognition of high academic achievement at Grinnell College under a full course load/

Founder's Scholar, Grinnell College   Fall 2023

Upon admission, I was awarded the Founder's Scholarship, an award based on "academic merit, extracurricular involvement, demonstrated leadership, and/or special talents."

FermiLab Science Award,   Spring 2023

Awarded by Fermilab in recognition of outstanding accomplishments in science at Neuqua Valley High School.

Professional Affiliations

Association for Computational Linguistics,   Spring 2025–Present

American Mathematical Society,   Summer 2025–Present

Publications

The Categorification of Transfer Systems on Arborescences, *In preprint.*   Spring 2026

Presentations

A Recurrence for Transfer Systems on Arborescences, Washington, D.C.   Spring 2026

A poster presentation at the AMS Joint Math Meeting Conference in January 2026.