

Myles Agarwal

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SUMMARY

Mathematics educator with six years of collegiate teaching experience across **foundational mathematics**, introductory statistics, quantitative reasoning, calculus, linear algebra, discrete mathematics, and selected upper level coursework. Holds a **Ph.D.** in Mathematics and a graduate teaching certificate, with classroom practice grounded in clear explanation, purposeful assessment, inclusive instruction, and evidence based course refinement. Teaches full semester in person courses, coordinates multiple sections, develops syllabi and assessments, supports students through office hours, and uses **learning management systems** for organized communication. Course preparation connects procedural fluency with mathematical reasoning, data interpretation, and independent problem solving. Departmental participation includes curriculum discussions, teaching observations, scheduling conversations, faculty activities, and shared instructional planning. Brings dependable course administration and sustained attention to undergraduate **student learning**.

EXPERIENCE

Assistant Teaching Professor of Mathematics

August 2023 - Present

Capital City University

Columbus, OH

Leads recurring **in person instruction** across calculus, quantitative reasoning, and introductory statistics. Coordinates multiple sections, shapes common assessments, supports varied undergraduate preparation, and contributes to curriculum and departmental decisions.

- Teach in person calculus, **quantitative reasoning**, and **statistics** courses for varied undergraduate programs
- Align multi section **calculus** pacing and core assessments with faculty colleagues across sections
- Use formative checks and exam analysis to revise explanations for persistent conceptual gaps
- Create problem sets, exams, and review materials linking computation with mathematical reasoning
- Lead office hours and review sessions that strengthen independent student problem solving
- Contribute to curriculum discussions, teaching observations, scheduling conversations, and faculty activities

Visiting Instructor of Mathematics and Statistics

August 2021 - May 2023

Midwest Liberal Arts College

Dayton, OH

Delivered **foundational mathematics** and **statistics** courses in a teaching focused undergraduate department. Built coherent course calendars, authentic data activities, scaffolded practice, and reliable assessment workflows for students with varied preparation.

- Taught **college algebra**, **precalculus**, introductory statistics, and applied calculus in person
- Built assessments balancing computational practice, conceptual explanation, data interpretation, and written reasoning
- Used authentic datasets for activities involving probability, confidence intervals, and contextual interpretation
- Created scaffolded practice sequences that helped students diagnose and correct misconceptions
- Managed grading, course materials, deadlines, and student **communication** through a learning management system
- Shared classroom observations and course materials during departmental teaching conversations

Graduate Teaching Associate, Mathematics

August 2018 - May 2021

Great Lakes University

Cleveland, OH

Served as instructor of record and recitation leader during doctoral study. Taught foundational mathematics, calculus, linear algebra, and statistics while refining classroom practice through observation, mentoring, and teaching seminars.

- Taught **foundational mathematics** courses as **instructor** of record and recitation leader
- Led calculus and **linear algebra** sessions through examples, questioning, and guided problem solving
- Prepared quizzes, homework guidance, review sessions, and grading rubrics aligned with objectives
- Developed supplemental practice materials after identifying prerequisite gaps through student **assessment** evidence
- Supported **statistics** recitations covering probability, sampling, inference, and quantitative interpretation
- Applied observation feedback to improve pacing, board organization, questioning, and participation

PROJECTS

Foundational Mathematics Assessment Sequence 📅 2024

Created connected practice and assessment materials for calculus and quantitative reasoning, helping instructors address recurring conceptual gaps through clearer explanations and purposeful review.

Authentic Data Statistics Activities 📅 2022

Developed classroom activities using authentic datasets, giving students approachable practice with descriptive analysis, probability, confidence intervals, and interpretation in context.

LEADERSHIP & AWARDS

- Teaching Excellence Recognition, Capital City University, 2025
- Graduate Teaching Associate Recognition, Great Lakes University, 2021
- Doctoral Teaching and Mentoring Recognition, Great Lakes University, 2021

EDUCATION

Doctor of Philosophy in Mathematics	2021
Great Lakes University GPA: 0	Cleveland, OH
Coursework: Mathematical analysis, algebra, statistics, mathematics education	
Master of Science in Mathematics	2019
Great Lakes University GPA: 0	Cleveland, OH
Coursework: Calculus, linear algebra, discrete mathematics, probability	
Bachelor of Science in Mathematics	2017
Ohio University GPA: 0	Athens, OH
Coursework: Calculus, statistics, abstract algebra, mathematical modeling	

CERTIFICATIONS

- Graduate Certificate in College and University Teaching 📅 2021
- Doctor of Philosophy in Mathematics 📅 2021

TECHNICAL SKILLS

- **Mathematics Courses:** Calculus, Linear Algebra, Discrete Mathematics
- **Statistics Courses:** Introductory Statistics, Probability, Statistical Inference
- **Foundational Courses:** College Algebra, Precalculus, Quantitative Reasoning
- **Assessment Tools:** Exams, Quizzes, Rubrics
- **Course Materials:** Problem Sets, Review Materials, Practice Sequences
- **Teaching Formats:** In Person Instruction, Recitations, Office Hours
- **Learning Systems:** Learning Management Systems, Online Course Materials, Student Communication
- **Instructional Methods:** Worked Examples, Guided Problem Solving, Formative Checks
- **Curriculum Work:** Learning Objectives, Course Calendars, Multi Section Coordination
- **Data Applications:** Authentic Datasets, Descriptive Analysis, Confidence Intervals
- **Department Service:** Curriculum Discussions, Teaching Observations, Faculty Activities

SKILLS

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|---------------------------|-------------------------|--------------------------|------------------------|
| • Teaching Ability | • Assessment Design | • Linear Algebra | • Precalculus |
| • Mathematics Instruction | • Student Communication | • Discrete Mathematics | • Student Support |
| • Statistics Instruction | • In Person Teaching | • Quantitative Reasoning | • Departmental Service |
| • Course Preparation | • Calculus | • College Algebra | |

PROFESSIONAL AFFILIATIONS

- Mathematics and Statistics Department Service Contributor
- Faculty Teaching Seminar Participant and Peer Learning Contributor
- Undergraduate Curriculum Discussion Participant

LANGUAGES

- English (Native)
- Hindi (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST