



Myles Agarwal

Visiting Assistant Teaching Professor or Instructor, Mathematics and Statistics

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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

Capital City University 📅 August 2023 - Present 📍 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

Midwest Liberal Arts College 📅 August 2021 - May 2023 📍 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

Great Lakes University 📅 August 2018 - May 2021 📍 Cleveland, OH

STRENGTHS

- 💡 **Clear Mathematical Explanation**
Complex ideas became workable through carefully sequenced examples, plain language, and questions that invited students into reasoning.
- ✅ **Purposeful Assessment**
Exam patterns and student work revealed where concepts broke down, then informed better practice sequences and explanations.
- 👥 **Inclusive Student Support**
Structured office hours and review sessions gave students varied preparation a practical path toward independent problem solving.
- 🔧 **Collaborative Course Coordination**
Multi section planning aligned pacing and core assessments, though instructors still kept room for their own classroom examples.
- 💬 **Reflective Teaching Practice**
Teaching observations, seminars, and student questions shaped small changes in pacing, board organization, and participation.

SKILLS

Teaching Ability

Mathematics Instruction

Statistics Instruction

Course Preparation

Assessment Design

Student Communication

In Person Teaching Calculus

Linear Algebra

Discrete Mathematics

Quantitative Reasoning

College Algebra Precalculus

Student Support

Departmental Service

LANGUAGES

English Native

Hindi Intermediate

MY CAREER



- Assistant Teaching Professor of Mathematics at Capital City University (3.2 Years)
- Visiting Instructor of Mathematics and Statistics at Midwest Liberal Arts College (1.8 Years)
- Graduate Teaching Associate, Mathematics at Great Lakes University (2.8 Years)

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

Great Lakes University 🎓 GPA: 0 📅 2021 📍 Cleveland, OH

Coursework: *Mathematical analysis, algebra, statistics, mathematics education*

Master of Science in Mathematics

Great Lakes University 🎓 GPA: 0 📅 2019 📍 Cleveland, OH

Coursework: *Calculus, linear algebra, discrete mathematics, probability*

Bachelor of Science in Mathematics

Ohio University 🎓 GPA: 0 📅 2017 📍 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

PROFESSIONAL AFFILIATIONS

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST