

# Dr. Zareen Aga

Associate Professor: Middle, Secondary & Math Education

## Research Interest

- Mathematics education,
- Mathematics teacher preparation,
- Mathematics in-service teacher professional development,
- Bridging research and classroom divide in mathematics education,
- Culturally responsive mathematics teaching,
- Teaching mathematics for social justice,
- Critical mathematics education

## Research Questions and Projects

My current research focuses on culturally responsive mathematics teaching and teaching mathematics for social justice. Through this work I aim to develop a model of support for middle and high school mathematics pre-service teachers to support them in becoming teachers who address the needs of diverse students, are mindful of achievement disparities, and aware of their own biases. The main objective of my work is to develop a cohesive system of support for middle and high school pre-service teachers through collaboration with cooperating teachers and university supervisors.



## Recent Publications

- Aga, Z. G. (2024). Mathematics Prospective Teachers' Perceptions about Culturally Responsive Mathematics Teaching and Teaching Mathematics for Social Justice. *The Educational Forum*.
- Ghosh-Hajra, S., & Aga, Z. G. (2024). How community-based mathematics modeling can support Calculus I students to learn about problem-based learning? *PRIMUS*.
- Aga, Z. G., Satyam, V., & Bae, Y. (2022). Navigating Mathematics Teacher Preparation During Time of Crisis. *Journal of Humanistic Mathematics*.

## Partners Invited

I welcome undergraduate & graduate student partners, in-service teachers, College of Education and other JMU faculty partners, and community partners.

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