## Diversity Statement

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Mathematics is often touted as a universal language, but when the access and means to acquire fluency in that language differs wildly between schools and classrooms, teaching mathematics and fostering future mathematicians requires an understanding of our student's diverse backgrounds. Math is unique in that starting from grade school, courses build off of each other year to year. A student that is not successfully taught a concept one year will have a harder time succeeding the next year in a snowballing effect that leaves many students, particularly those coming from disadvantaged backgrounds behind. When public schools are funded by mainly by local property taxes it is no surprise that areas of lower wealth and historically disadvantaged communities—often tied to race and created by discriminatory practices and policies—suffer from a lack of resources.

I take special care to ensure that when I am testing students, I am testing principally on the material covered in class—not material that students may or may not have covered years ago. For instance, a trick often used in order to have a nice integral for a computation of arclength involves quadratic factoring that usually was covered long ago. While this provides a nice looking solution and has merit in limited examples, it is apt to miss the point and cause confusion especially with students who already have a history of struggling with math. However, this does not mean dismissing topics from previous math courses completely. I use non-graded work, and classroom time to help identify background topics where students may need review and extra help.

Providing clear direction to resources available on campus, like NC State's math tutorial center, is especially important in helping a student body with a diverse math background succeed in the classroom. I always include these resources on my syllabus and emphasize their existence throughout the semester in writing and speech.

In addition to differing mathematics backgrounds, students with disabilities can suffer due to inaccessible course materials. Enhancing accessibility of my own course material is a priority. I've taken a course on classroom accessibility emphasizing Universal Design for Learning and plan to provide audio recordings of the syllabus and lectures on a course website in future classes to not just help students with visual disabilities, but enhance the experience for everyone. Similarly by providing written (or better yet typed) course notes for students I plan on making my classes more accessible for students with hearing disabilities, and provide all students with another way to interact with the material.

Moreover, NC State has a Disability Resources Office (DRO) which I have pointed several students to, who were unaware they qualified for accommodations. With all the resources available on campuses, I make sure to remind all my students often of the services that they

can take advantage of and recommend them to specific students as I find they are needed.

I have taught classes with as few as 40 students, and as large as 200 students. No matter the size of the class I read NC State University's Non-Discrimination Policy, and make it clear that the classroom is a welcome space for students of all backgrounds. I additionally include a Trans-Inclusive Statement to make clear my wish to affirm and respect the identities of transgender students, and provide a clear channel for students to let me know if they have a name or pronouns that are not reflected in the student directory.

Diversity is an important part of a college campus. Bringing together people and ideas from all different backgrounds is beneficial to the world. To that end it is imperative that our classrooms and research opportunities for students are a welcoming and inviting space for a diverse student body, especially when the faculty that support them are often much less diverse. I commit to being actively welcoming and affirming the identities of all students regardless of age, color, disability, gender identity, national origin, political ideology, race, religion, sex, sexual orientation, or veteran status. To help understand, and support the needs of students of diverse backgrounds I have participated in NC State's GLBT Advocate Program, am a member of NC State's AWM Chapter, and have completed a course on classroom accessibility.

The desire to serve a diverse campus requires continuing education and outreach. I am committed to pursue this actively as an advocate of and participant in programs promoting diversity and supporting all students, and in particular, students who historically are left behind.