motivates the work and outlines the main research questions and in a few sentences the methods.

**Hello everyone, thank for your time**

**My name is Nate Mather**

**I’m really excited about this project and I hope to get you all excited about it as well.**

1. Big picture: Our research is developing a better metric for teacher assessment. One that considers the idea that some teachers may be better at teaching students that are more prepared while other teachers may better at teaching students who are less prepared.
   1. What is the Value of teacher assessment?
      1. The first thing that may come to mind is teacher accountability,
         1. but there is so much more to assessment.
      2. Directing resources or training to struggling teachers
         1. Can be a win win for teachers, who wan to help the students in their classrooms, and administration, who want to get teachers the help they need
         2. Ultimately its about helping students in classrooms or schools with struggling teachers
      3. Assessing interventions like trainings, teacher aid, class materials, schoolwide initiatives etc.
         1. Need teacher assessment find most effective intervention
2. Focused on test based assessment.
   1. While it certainly can’t capture everything a teacher. I think it is a useful tool to have.
      1. When directing resources focusing on core testing skills
3. Our research goal is to provide a measure that is better at those things, and can do even more
   1. More than what?
   2. Current best metric for teacher assessment is probably Value added
      1. It looks at student growth and allows you to compare teachers in different classes
      2. It only tells you how teachers do on average
      3. Let me give an example of why this is a problem
      4. Alex and bob may have the same Value added scores, but Alex is primarily seeing growth in the top of his class while bob is primarily seeing growth in the bottom.
         1. Say you wanted to assign a teaching aid focused on struggling students to one of the two teachers. Or training, or some other intervention focused on struggling students. VA won’t help you
4. Our measure can be used to fit specific policy goals by weighting the teacher’s impacts differently.
   1. we want to direct resources to struggling students
   2. Different ways to do this, but a basic way would be to split students into two groups (bottom and top) based on their previous test scores.
   3. Give students in the bottom half group higher weight
   4. Under this, Bob, who was better at helping struggling students, gets a higher score
   5. Alex, who was better at helping more prepared students, is identified as the teacher that needs help
   6. Our model is flexible, so the same could be done for resources that are specific to more prepared students.
5. we will use it to try and determine how often this situation occurs.
   1. It might be that this Alex and bob situation is very common
   2. It could be that all high performing teachers are all helping the most prepared students.
6. Research methods
   1. We have already developed the statistical techniques to do this and tested them on simulated data.
      1. These results give us hope that we will be able to detect differing teacher specialties
      2. But, we ultimately need the real data to say how beneficial this would be in practive
      3. Can’t saw anything about how often this occurs without real data
   2. Of course, If we get that opportunity, we plan to share these results with you prior to publishing or presenting them in public.
      1. I’m guessing ya’ll have a lot on your plate, and we really want to be conscious of that and give you plenty of time to review those results before any presentations
7. Wrap my part up
   1. Do teachers have different specialties?
   2. In the process of identifying these specialties we develop an assessment tool
      1. that considers and weights these differences for any specific policy goals.
8. Now I am going to let Julian take over and give a some more specifics on the data we think would work best for this project, if given the opportunity to work together.