



**The Rice University Noyce Master Teaching Fellowship Program**



**NSF Award # 1556006**  
**March, 2017- December, 2021**  
**\$1,484,025.00**

**Administered through the**  
**Rice University School Mathematics Project**

**PI: Anne Papakonstantinou**  
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**Co-PI: Judy Radigan**  
**Co-PI: Richard Tapia**



## **Core Partners**

- **Rice University School Mathematics Project (RUSMP)**
- **Glasscock School of Continuing Studies (Education Department)**
- **Tapia Center for Excellence and Equity**
- **Advancement Via Individual Determination (AVID)**
- **Houston Independent School District (HISD)**



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## **Overarching Goal**

**Develop 16 exceptional secondary HISD mathematics teachers into National Science Foundation Robert Noyce Master Teaching Fellows through**

- **focused coursework**
- **personalized leadership experiences**



## **Anticipated Results**

**Master Teaching Fellows' five-year commitment to improve mathematics instruction at their schools will result in**

- **increased teacher effectiveness**
- **increased student understanding of mathematics**
- **increased student motivation to persist in mathematics**



## Schedule of Activities for Rice Noyce Master Teaching Fellows

| Activities/Courses  | Year 1<br>2016–17         |     | Year 2<br>2017–18 |     | Year 3<br>2018–19 |     | Year 4<br>2019–20 |     | Year 5<br>2020–21 |     | Year 6<br>2021–22          |
|---|---------------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|----------------------------|
|   | Aca<br>Year<br>Spr<br>'17 | Sum | Aca<br>Year       | Sum | Aca<br>Year       | Sum | Aca<br>Year       | Sum | Aca<br>Year       | Sum | Aca<br>Year<br>Fall<br>'21 |
| Complete NCSI 590; Math I; CRT-E  |                           | x   |                   |     |                   |     |                   |     |                   |     |                            |
| Complete NCSI 590; Math II; CRT-S   |                           |     |                   | x   |                   |     |                   |     |                   |     |                            |
| Attend progress meetings  | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Demonstrate lessons for teachers  | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Plan & co-teach with teachers   | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Lead study groups or seminars for teachers                                    | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Mentor/observe teachers   | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Collaborate & interact with school community to promote math for all students | x                         | x   | x                 | x   | x                 | x   | x                 | x   | x                 | x   | x                          |
| Participate/lead planning school & district math initiatives                  | x                         | x   | x                 | x   | x                 | x   | x                 | x   | x                 | x   | x                          |
| Collaborate & interact with other MTFs  | x                         | x   | x                 | x   | x                 | x   | x                 | x   | x                 | x   | x                          |
| Plan co-teaching (summer PD)  |                           |     |                   |     | x                 |     | x                 |     | x                 |     | x                          |
| Co-teach (summer PD)  |                           |     |                   |     |                   | x   |                   | x   |                   | x   |                            |
| Mentor pre-service & intern math teachers                                     |                           |     |                   |     | x                 | x   | x                 | x   | x                 | x   | x                          |
| Assist in math methods courses  |                           |     |                   |     | x                 | x   | x                 | x   | x                 | x   | x                          |
| Observed by pre-service & intern teachers                                     | x                         |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |
| Demonstrate exemplary lessons at the Life in School Conference                |                           |     | x                 |     | x                 |     | x                 |     | x                 |     | x                          |



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Discussing the vision for mathematics in the Houston Independent School District with Secondary Director of Mathematics Alyssa Howell



The Rice University Noyce Master Teaching Fellowship Program



Planning their leadership roles within the Rice University Glasscock School of Continuing Studies Education Department with Director Dr. Judy Radigan



# The Rice University Noyce Master Teaching Fellowship Program



Engaging in challenging and thought-provoking mathematical investigations during June





# The Rice University Noyce Master Teaching Fellowship Program



Exploring mathematics on the Rice campus through a scavenger hunt



# The Rice University Noyce Master Teaching Fellowship Program



Exploring AVID instructional strategies for culturally-relevant mathematics instruction with AVID instructor Angie Potts



The Rice University Noyce Master Teaching Fellowship Program



Gaining insights from Rice Professor Richard Tapia about the struggles of underrepresented minorities in STEM in higher education



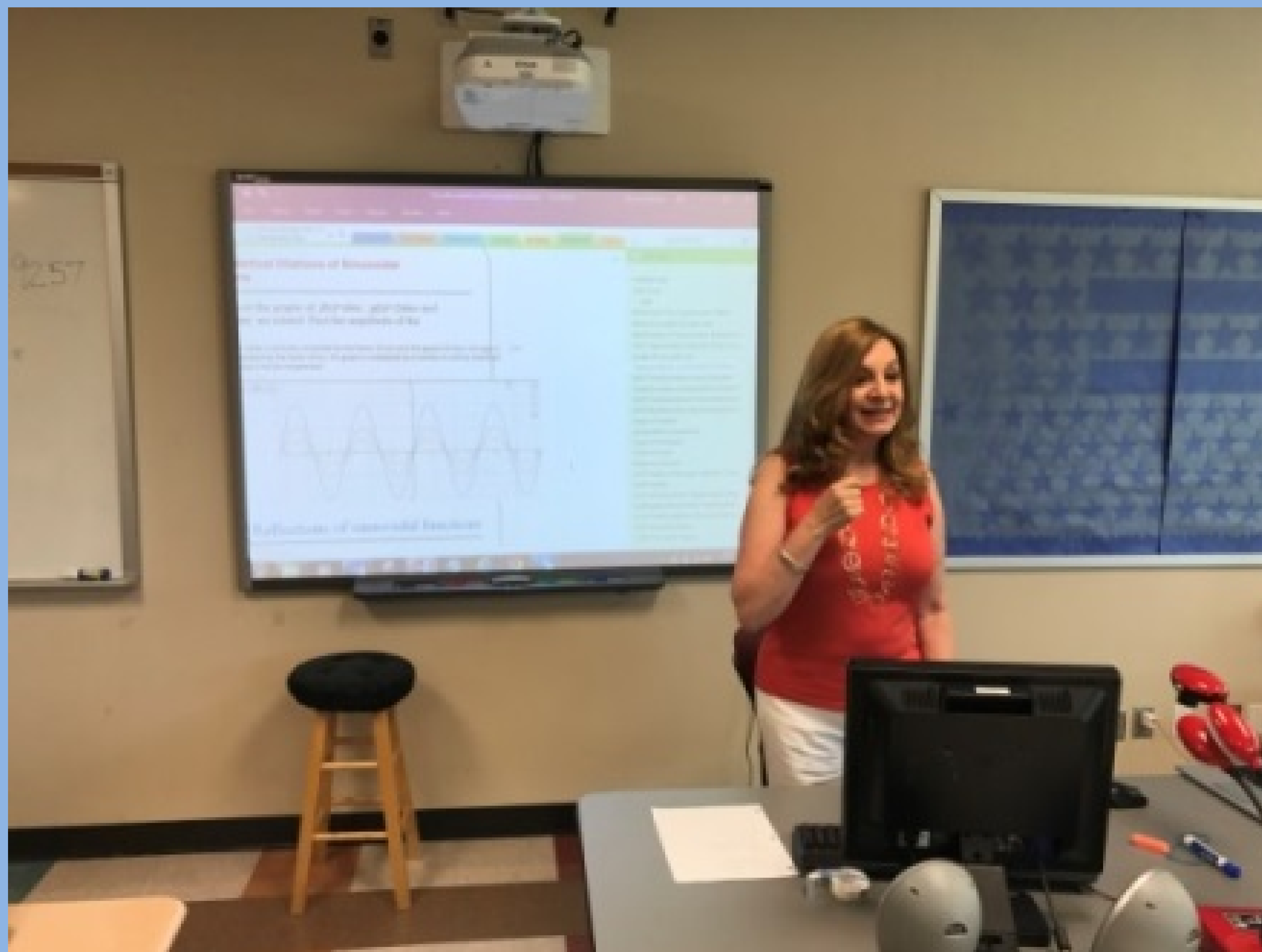
# The Rice University Noyce Master Teaching Fellowship Program



Understanding challenges faced by successful Rice students underrepresented in STEM



# The Rice University Noyce Master Teaching Fellowship Program



Sharing teaching and leadership strategies with colleagues



# The Rice University Noyce Master Teaching Fellowship Program



Preparing for solar eclipse community outreach activities with Rice Professor Patricia Reiff



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For more information visit our website:

<https://rusmp.rice.edu/about/noyce>