

## STEM FOR ALL

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**Presentation Title: See the Unseen: Hidden STEM Heroes and Filters to See Hidden Messages**

In this engaging, hands-on session, participants will explore how color filters help astronomers detect stars and nebulae through absorption and reflection. They'll discover how these filters can "trick" your eyes just as astronomers use them to better "see" the universe. Participants will color and design art to see the unseen while also being introduced to inspiring people in STEM across history, which includes Galileo, Banneker, Carruthers and the Gordon brothers. As a fun interactive activity, attendees will use color filters to decode hidden messages, revealing secret words and craft their own encrypted communication — just like scientific analyzers in action!

**Presentation Target:**

Elementary School

**Presenter(s):**

1. Rhea Miles, Professor, East Carolina University