

# NEW FACULTY SPOTLIGHT

Department of Mathematics & Statistics

## Dr. Yesim Demiroglu

Applications of Cayley Digraphs to Waring's Problem  
and Sum-Product Formulas

## Dr. Vardayani Ratti

Bees, Bugs, and Equations: Understanding Honeybee  
Diseases Through Mathematical Modeling

## Dr. Jessie Loucks-Tavitas

Hey! You got your algebraic geometry  
in my computer vision!

**Wednesday**  
**May 7, 2025**

Join us for math, food and community!

2:15–2:50pm — Reception in **Shasta 170** (Free Food!)

3:00–4:15pm — Research talks and Q&A in **Sequoia 301** (Free Snacks!)