

MathArt Program

2026 Fall Section Meeting

MAA Southern California–Nevada Section

Date	Saturday, October 24, 2026
Session time	11:55–12:25 p.m.
Location	Golden Eagle Ballroom

Oneiric Architecture: *The Sound of Resolution*

Time	11:55–12:10 p.m.
Presenter	Shanna Dobson, Harvey Mudd College; California State University, Los Angeles
Abstract	

What does it mean to think in structures that cannot be seen? A mathematician immersed in p -adic geometry and a musician composing in parallel confront the same problem: how to bring structure into form. In a space where equations gather on glass and extend into a larger, invisible architecture, mathematics becomes an interior landscape—at once isolating and expansive, felt as much as understood. As musical phrases from an original score unfold in time, mirroring the movement and development of thought, both move through persistence and fracture, arriving at a moment of resolution—not as conclusion, but as alignment within a larger structure—revealing mathematics and music as parallel acts of composition shaped by tension, structure, and release.

Pascal's Matrix Quilt

Time	12:10–12:25 p.m.
Presenter	Tuyetdong T. Phan-Yamada, California State University, Los Angeles
Abstract	

The Pascal's Triangle and binomial coefficients are known to students as early as the high school level. This talk explores several patterns in matrices in $\mathbb{Z}_n$ populated using the rule of Pascal's triangle. We will discuss the patterns in $\mathbb{Z}_p$, $\mathbb{Z}_{p^2}$ and $\mathbb{Z}_{pq}$ for some prime numbers p and q . Color coding these matrices generate some interesting patterns.