

Greg Dresden and Yu Xiao

*Weighted Sums of Fibonacci and Lucas Numbers Through Colorful Tilings,*

Fibonacci Quart. **60** (2022), no. 2, 126–135.

**Abstract**

We explore the number of different tilings of boards and bracelets with one color of squares, two colors of dominos, three colors of trominos, and so on. We give a visual proof of the surprising connections between these sequences and the Fibonacci and Lucas numbers, which then allows us to establish new identities and new proofs.