The Sunflower, the Dancer, and the Vanishing Point

Duncan Buell Everything is Mathematics Public Lectures
The University of Arizona • Department of Mathematics
Tuesday, November 3, 2026 • 6:30 pm
Holsclaw Hall, University of Arizona School of Music

Madeleine Kuebler • *Edward Oyarce-Solomon*
Ballet Tucson
Madeleine Kuebler and Edward Oyarce-Solomon appear courtesy of Ballet Tucson.

Rie Tanaka
Piano, University of Arizona School of Music

Patrick Shipman
University of Arizona, Department of Mathematics

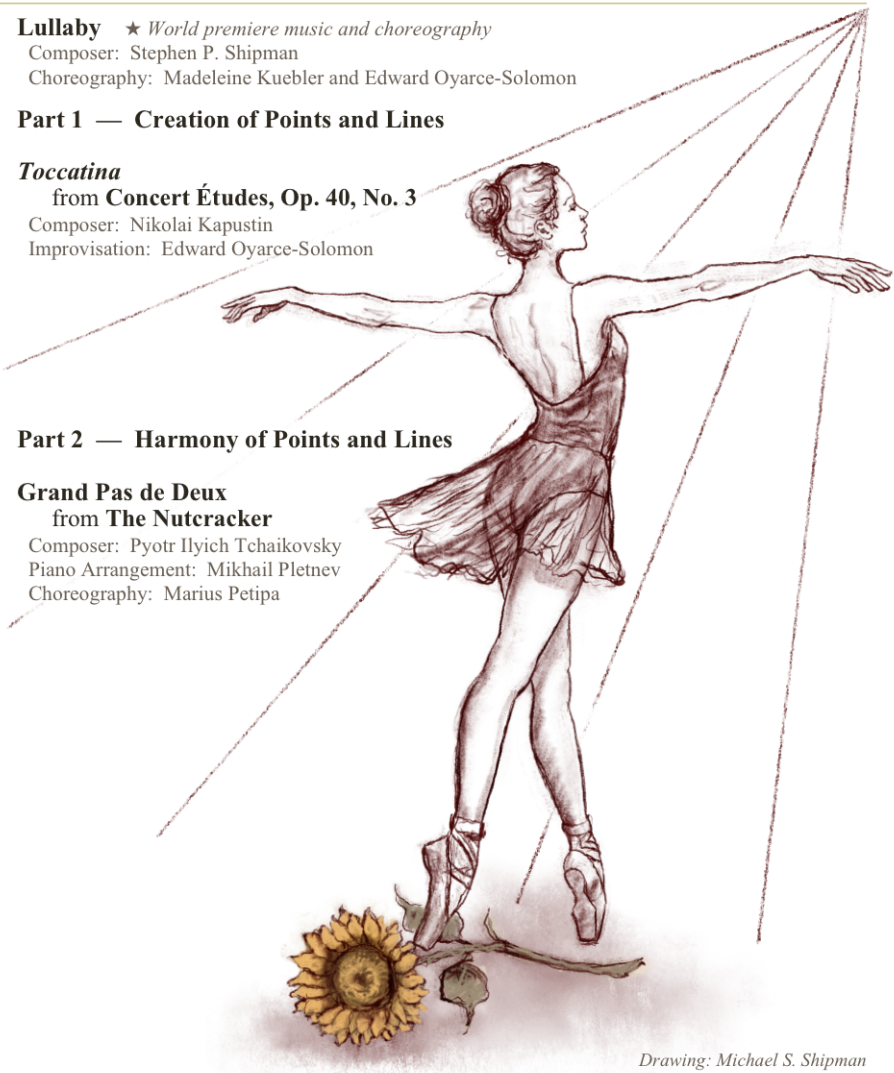
Lullaby ★ *World premiere music and choreography*
Composer: Stephen P. Shipman
Choreography: Madeleine Kuebler and Edward Oyarce-Solomon

Part 1 — Creation of Points and Lines

Toccatina
from **Concert Études, Op. 40, No. 3**
Composer: Nikolai Kapustin
Improvisation: Edward Oyarce-Solomon

Part 2 — Harmony of Points and Lines

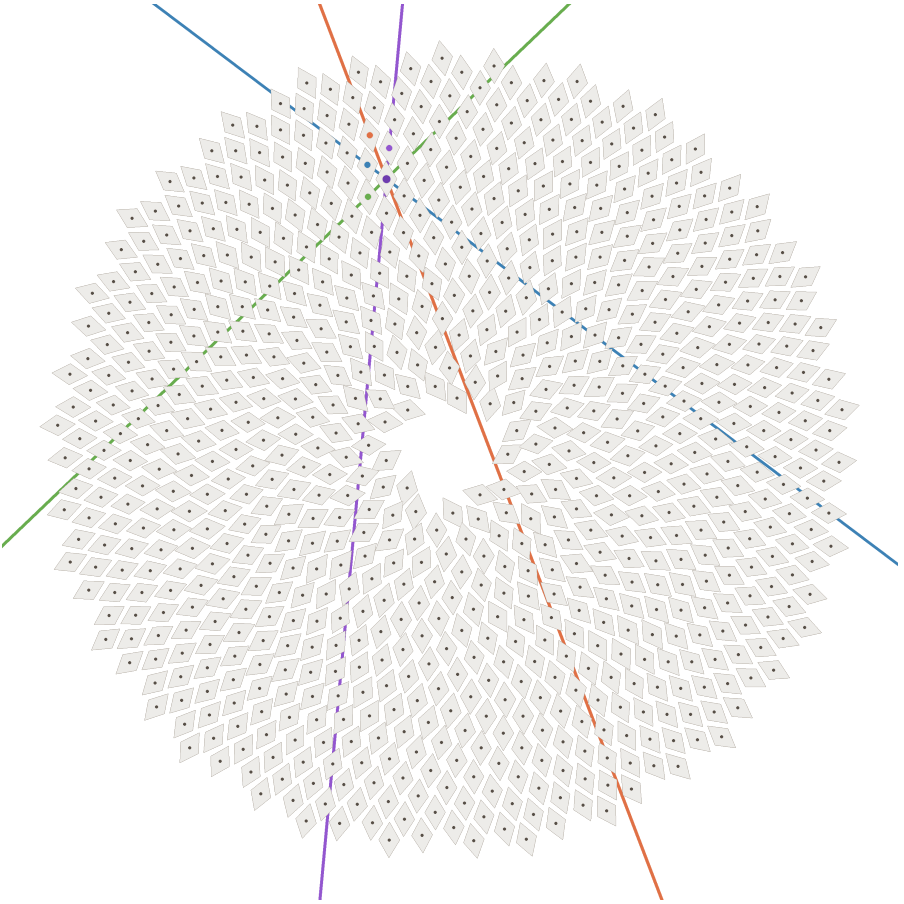
Grand Pas de Deux
from **The Nutcracker**
Composer: Pyotr Ilyich Tchaikovsky
Piano Arrangement: Mikhail Pletnev
Choreography: Marius Petipa



Drawing: Michael S. Shipman

Everything is Mathematics

The annual **Duncan Buell Everything is Mathematics Public Lectures** gives the Tucson community a window into the mathematical research our UA faculty do here in Tucson. The lecture series is made possible in part by a generous endowment by UA mathematics alumnus Duncan Buell, now professor emeritus of Computer Science and Engineering at the University of South Carolina.



Find interactive widgets to explore the hidden harmony in the sunflower and in dance at
math.arizona.edu/engagement/general-public/everything-math