## **Gokul Kesavamurthy**

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CS557 - Computer Graphics Shaders

Project #2: Noisy Elliptical Dots

## **Description:**

For this project, I built upon the foundation of Project 1. Since I am not using glman, I downloaded the 3D noise texture from the resources page. I implemented a separate function to read the texture and passed it to the shaders. The *NoiseAmp* and *NoiseFreq* parameters were passed as uniform variables using the same techniques applied in Project 1.

In this project, I made all five parameters (*uAd*, *uBd*, *uTol*, *uNoiseAmp*, and *uNoiseFreq*) variable. Keyframes for these parameters are controlled using the following keyboard keys:

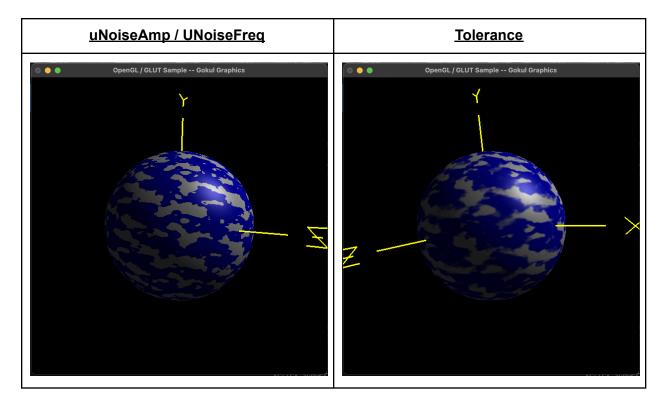
t, T: uAdu, U: uBdv, V: uTol

w, W: uNoiseAmpx, X: uNoiseFreq

All the following project requirements have been fulfilled:

- uAd and uBd continue to work correctly: The ellipse radii can be adjusted using keys 't' and 'u'
- uTol continues to work correctly: Tolerance can be adjusted using 'v'
- Show correct changes in uNoiseAmp: Noise Amp can be changed using key 'w'
- Show correct changes in uNoiseFreq: Noise Freq can be changed using key 'x'

## **Screenshot:**



Video Link: https://media.oregonstate.edu/media/t/1 jm2xr56o