

# DMA LECTURE RECITAL Stuart Anderson, double bass

Sunday, November 3, 2024 | 7:00 pm Hance Chapel

### Sonic Effects of Bow Force Vector Differentials on Bowed Stringed Instruments

- I. Overview of Experimental Study
  - a. What is a Bow Force Vector?
  - b. Axes of Rotation: Pitch. Roll. and Yaw
  - c. Background Information on Bowing

Parameters and Bow Angles

- d. Existing Research
- e. Purpose and Scope
- f. Introduction to Techniques A & B
- II. Video and Roll Angle Study
  - a. Introduction to Technology Used for Measurement
  - (Live Demonstration)
  - b. Video Analysis Procedure
  - c. Results
- III. Qualitative Survey Study
  - a. Terms Used to Describe Tone
  - b. Survey Procedure
  - c. Live experiment
  - d. Results
- IV. Conclusion and Future Research

This recital is presented in partial fulfillment of the requirements for the Doctor of Musical Arts degree.

Stuart Anderson is a student of Professor Mark Morton.

#### **Upcoming Events**

#### Caprock English Bagpipe Consort

8:00pm, Monday, November 4 The Kent R. Hance Chapel

Percussion Ensemble, Steel Drum Band, & Samba Ensemble Concert 8:00pm, Monday, November 4 Hemmle Recital Hall

## Eva Browning Artist Series William Westney and Daniel del Pino, duet piano

6:00pm, Friday, November 8 Hemmle Recital Hall