JOHNS HOPKINS
PEABODY INSTITUTE

Technology to Teach Keyboard Remotely

Dr. Mario Ajero, Stephen F. Austin State University
Dr. Alejandro Cremaschi, University of Colorado Boulder

Summer Lunch & Learn Series - June 9, 2020

Synchronous or Real-Time Instruction

Asynchronous or Time-Shifted Instruction

Asynchronous or Time-Shifted Instruction

Group Piano Classes

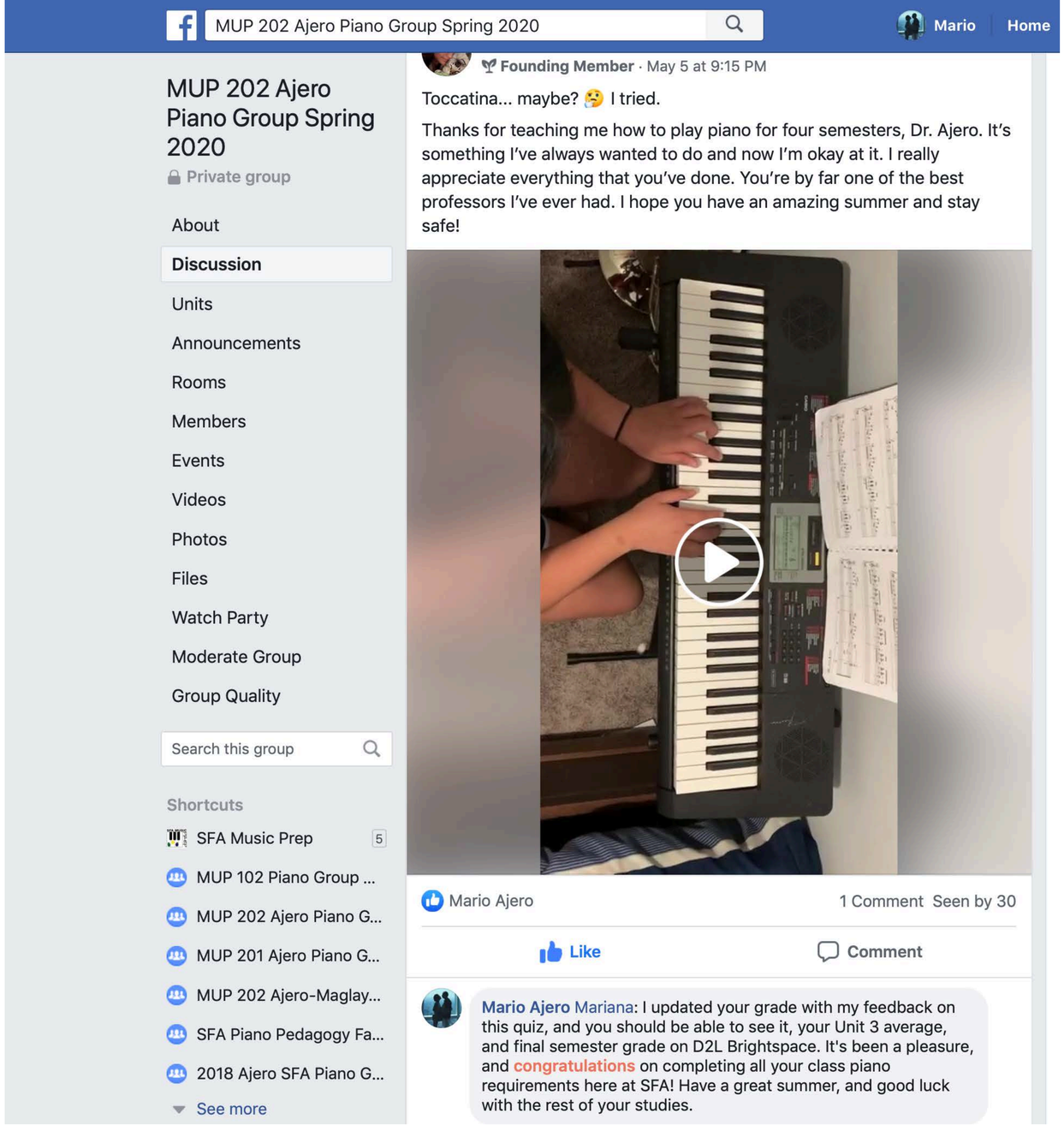
Stephen F. Austin State University

- Majority of Music Majors are Choral and Instrumental Music Education Majors
- Large class sizes created need for alternative methods of assessment

Group Piano Classes

Stephen F. Austin State University

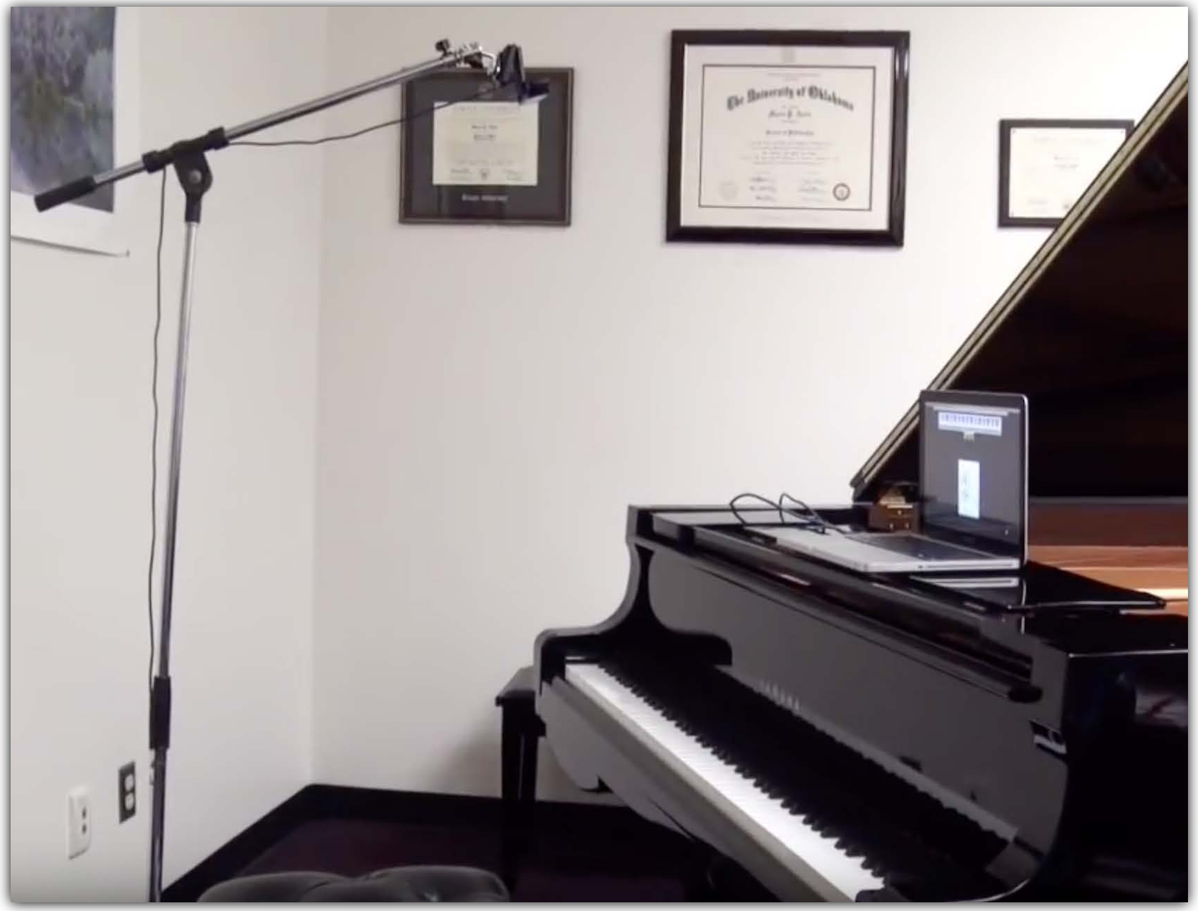
- Created hybrid of face-to-face piano lab and asynchronous online video exchanges
- Private Facebook Groups are platforms for students' video submissions



Technology to Teach Keyboard Remotely

Dr. Ajero's hardware

- MacBook Pro Computer
- MIDI-capable piano (Yamaha Disklavier Grand Piano)
- Logitech Webcam (c930e)
- On-Stage Boom Microphone Stand
- On-Stage CM01 Video Camera Adapter

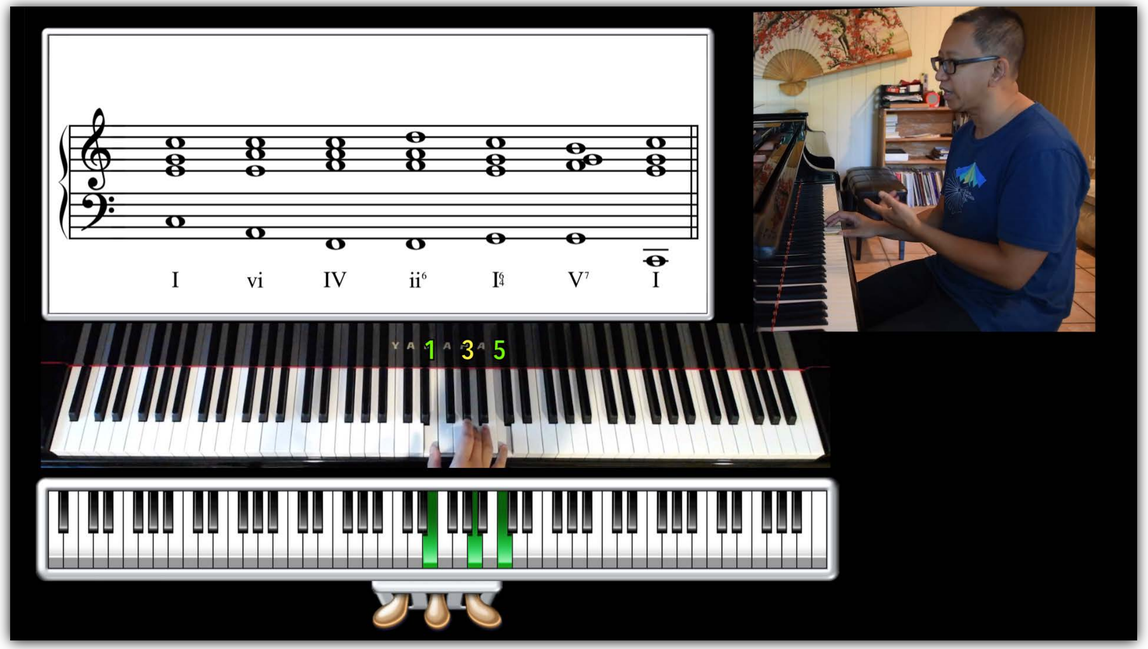


youtube.com/mariocast

Technology to Teach Keyboard Remotely

Dr. Ajero's software

- Classroom Maestro
  - MIDI app to visualize keys and notes in real time
- ScreenFlow
  - Video editing and screen recording



Further Reading:

- *Ajero, M. (2015). Flipping Piano Classes and Lessons With Rich Online Video Content. Clavier Companion, 7(4), 20-25.*
- *How to Create Piano Lesson Videos with ScreenFlow and Classroom Maestro: https://youtu.be/L-DVS5gc_TQ*

Teaching in the Time of COVID-19

Resources for Online Instruction

PIANO MAGAZINE

www.claviercompanion.com/covid19

Applied Lessons

U of Colorado Boulder - Spring 2020

University of Colorado **Boulder**

- Challenges:
  - Quick switch
  - Instruments
  - Equipment
  - Internet connection
- Hybrid model (synchronous and asynchronous)

Applied Lessons

U of Colorado Boulder - Spring 2020

- Kawai ES110 for piano majors
- Casio CTK 4400 for non majors
- Blue Snowball USB mics or similar

- Zoom (optimized for audio – find guides online)
- Cleanfeed.com (for improved audio streaming – **muting Zoom**)
- Asynchronous + Synchronous

Applied Lessons

U of Colorado Boulder - Spring 2020

University of Colorado **Boulder**

- Asynchronous:
  - Videos pre-recorded and shared before lesson or studio class
  - Could be “annotated” by teacher, student or peer
    - VideoAnt (ant.umn.edu)
    - ReClipped.com
    - timeline.ly
    - Dropbox

Reclipped BETA

Timelinely

Further Reading:

- *VideoAnt: Getting Started.* https://youtu.be/1SOE2aQky2I
- *DropBox annotations.* https://youtu.be/WzPAZrzCCmw

Class Piano

U of Colorado Boulder

University of Colorado **Boulder**

Two approaches for Fall 2020:

- Fully online (non-majors)
- Hybrid (music majors)

Class Piano

Non-major: fully online

University of Colorado **Boulder**

pianomarvel

Teaching & Assessment Software

- Mostly asynchronously
- Students own or borrow USB keyboard
- Instructor videos on Canvas LMS
  - Camtasia, Filmora, or Screenflow
- Regular video submissions
- Piano Marvel: interactive collection of pieces
  - Obtain specific grades

Class Piano

University of Colorado **Boulder**

Non-major: fully online

- Video exchanges facilitated with:
  - Canvas (LMS)
  - Closed Facebook groups
  - Google Drive
  - Collabra Music (collabramusic.com)
  - MusicU (CU Boulder - soon available to others)

Collabra

MusicU

Class Piano

University of Colorado **Boulder**

Music majors: hybrid approach

- Subgroups of 4 students
- Alternate in-person meetings
- Weekly video submissions
- eNovativePiano.com
  - E-textbook
  - Multimedia content
  - Instructional videos

Class Piano

U of Colorado Boulder

University of Colorado **Boulder**

- Additional tools
  - musictheory.net
    - Key and note ID
  - Soundtrap.com
    - Asynchronous keyboard “ensemble” and improv
  - Flat.io
    - Written exercises
    - Group composition

Soundtrap®

Video Demonstrations:

- *Async keyboard “ensembles” with Soundtrap. https://youtu.be/COYBdkKQf2w*
- *Async improvisation with Soundtrap. https://youtu.be/15mYs5VI3x8*

Effective pedagogy

Resources

- Piano Magazine: Teaching Piano in Time of COVID-19 (May 2020) https://claviercompanion.com
- Dumlavwalla, D. (2017). Transitioning From Traditional To Online Piano Lessons: Perceptions Of Students, Parents And Teacher. MTNA e-Journal 8(3)
- Pike, P. D. (2017). Improving music teaching and learning through online service: A case study of a synchronous online teaching internship. International Journal of Music Education 35(1).

One more thing…

Internet MIDI

timewarptech.com

Antonio Ajero

Mario Ajero

JOHNS HOPKINS
PEABODY INSTITUTE

Technology to Teach Keyboard Remotely

Dr. Mario Ajero, Stephen F. Austin State University
Dr. Alejandro Cremaschi, University of Colorado Boulder

Summer Lunch & Learn Series - June 9, 2020