

Maxwell Tfirm
Curriculum Vitae

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EDUCATION

- Ph.D. Composition and Computer Technologies
University of Virginia (Fall 2017)
- M.A. Music Composition
University of Virginia (2016)
- M.A. Music Composition
Wesleyan University (2012)
- B.M. Music Education with a Percussion Performance Certificate
University of Florida (2009)

TEACHING EXPERIENCES

University of Virginia

- MUSI 2120 TA History of Jazz Music (Spring 2016)
- MUSI 3390 TA Introduction to Music and Computers (Fall 2015)
- MUSI 2390/3390 GA Introduction to Music and Computers (Summer 2015)
- MUSI 4543 TA Computer Applications in Music (Spring 2015)
- MUSI 2350 TA Technosonics (Fall 2014)
- MUSI 4543 TA Sound Studio: Producer as Composer (Spring 2014)
- MUSI 3390 TA Introduction to Music and Computers (Fall 2013)
- MUSI 4535 TAMobile Interactive Computer Ensemble (Spring 2013)
- MUSI 2350 TA Technosonics (Fall 2012)

Wesleyan University

- MUSC 202 TA Theory 2 (Spring 2012)
- MUSC 109 TA Introduction to Experimental Music (Fall 2011)

Florida International University

- MUC 1342 GA Introduction to Midi Technology (Spring 2011)
- MUC 2302 TA Electronic Music 2 (Spring 2011)
- MUS 3333 TA Sound Reinforcement (Fall 2010)

OTHER EXPERIENCES

Assistant Director of the New Music Ensemble at the University of Virginia 2016 – 2017

Assistant Director of the UVa Mobile Interactive Computer Ensemble 2013
Assistant Director of the FIU Laptop and Electronic Arts ensemble 2010-2011
Electronics Engineer for Judith Shatin's *Black Moon* 2016 Performed at Carnegie Hall
Software Designer for Chris Luna's *Splatter* 2016
Software Designer for Chris Luna's *Geyser* 2016
Software Designer for Chris Luna's *La Torre de Chitor* 2016

PUBLICATIONS AND RECORDINGS

SEAMUS Electroacoustic Miniatures 2014
Sound Notion 36: Every Lightswitch Makes a Different Sound

PROJECTS

Sonification of Bacterial Chemotaxis: Do you hear what I hear?

Research advisor and programmer for Justin Peruzzi, recipient of a Harrison Undergraduate Research Grant to study the movement of E. Coli in a medium when an attractant is introduced. This was accomplished through study of video sonification of the motion.

Hearing Images and Seeing Sound: The Creation of Sonic Information Through Image Interpolation

This research focuses on the multi-modal transformation of image into sound. I have developed a suite of tools, called 'Image to Sound Mapping,' in Max/MSP to draw or import an image, transform it into sound, and analyze the resultant spectral content, centroid, flux, loudness and noise.

Clave Pattern

Developed a Max/MSP program for the Kubovy Perception Lab at UVA to test rhythmic identification in spoken sentences. The software plays words and rests its patterns. The task is for the subject to determine the pattern's starting point. The software also saves the answer to all trials.

TEACHING AREAS

Electroacoustic Music Composition, Acoustic Composition, Sound Synthesis, Interactive Electronics, Data Sonification, Analog Electronics, Media Art, Sound Installations, Live Sound, Recording Techniques, Music Technology, Music Theory, Aural Skills, Keyboard Skills, New Music Interpretation, Ensemble Direction

RELATED SKILLS

- Audio programming: Max/MSP, Supercollider, Axoloti, Csound, PVC, Open Music, Usine, AudioMulch, Pure Data, SoundHack, Spear, Praat, Iannix, Orchids, PWGL, Composer Desktop, Project: Soundloom
- Digital Audio Workstations: Digital Performer, Logic, Ableton Live, Reaper, Audition, Amadeus, Garage Band, Audacity, Amadeus Pro, Hydrogen
- Music Notation: Finale, Noteability, MuseScore
- Other: Final Cut Pro, Pixel Conduit, Premiere Pro, Nodebox, Gimp, Photoshop, Illustrator

SELECTED PERFORMANCES

2017

- *Definite Failure* for Solo Instrument and Computer Generated Score
 - Digitalis, University of Virginia, VA
- *Establish, Corrupt, Broken* for Fixed Media
 - National Students in Electronic Music Event, Louisiana State University, LA
- *Garden of Temptation and Being*
 - Society of Electro Acoustic Music in the United States, St. Cloud State University, St. Cloud, MN

2016

- *Establish, Corrupt, Broken* for Fixed Media
 - University Tea Time Recital, Charlottesville, VA
- *From Noise Comes Being* for Axoloti, Computer and Analog Electronics
 - Electroacoustic Barn Dance, University of Mary Washington, Fredericksburg, VA
- *Invisible Signals* for Open Instrumentation, Electromagnetic Microphone and Computer
 - Technosonics XVII, University of Virginia, Charlottesville, VA
 - University Tea Time Recital, Charlottesville, VA
- *No Harm Shall Come to Others*
 - A Concert of Electroacoustic, Electronic and Multimedia Works, University of International Business and Economics, Beijing, China
- *Thixotropy* for 2 Computers or Assortment of Electronics
 - TomTom Festival, Charlottesville, VA
 - Digitalis, Charlottesville, VA
- *The Body of Sound* for 2 Computers
 - TomTom Festival, Charlottesville, VA
- *Cherry Blossom & Blood* for Mixed Ensemble and Interactive Computer
 - University of Virginia New Music Ensemble, Charlottesville, VA
- *Inter Diabolus et Virgo* for Interactive Computer
 - Hack Cville, Charlottesville, VA
- *Dying Stars Bring Light to a Dark Sky* for Fixed Media
 - Society of Composers Regional Conference, Marshall University, Huntington, WV
- *5 Image Interpretations* for String Quartet
 - Jack Quartet, University of Virginia
- *Burning Shrine Crumbles* for Multi Percussion Duet
 - Kenneth Broadway Faculty Recital, University of Florida, Gainesville, FL

2015

- *Lament to Millions of Lost Souls* for Fixed Media
 - Technosonics XVI, University of Virginia, Charlottesville, VA
- *Tri Voice Duality* for Voice Trio
 - Bucknell University, Lewisburg, PA

- *Dying Stars Bring Light to a Dark Sky* for Fixed Media
 - Electroacoustic Barn Dance, University of Mary Washington, Fredericksburg, VA
- *Inter Diabolus et Virgo* for Interactive Computer
 - South Central Graduate Music Consortium, University of Virginia, Charlottesville, VA
- *Life of Astronaut* for Interactive computer and narration
 - Digitals, University of Virginia, Charlottesville, VA
 - TomTom Festival, Charlottesville, VA
- *The Garden* for Baritone Voice, Trombone, Bass Clarinet and Trumpet
 - Loadbang, University of Virginia, Charlottesville, VA
- *Burning Shrine Crumbles* for Multi Percussion Duet
 - Society of Composers National Conference 50th Anniversary, Gainesville, FL
 - Meehan, Perkins, University of Virginia, Charlottesville, VA
- *When Chaos Shrouds Utopia* for Solo Multi Percussion
 - I-Jen Fang, University of Virginia, Charlottesville, VA
- *The Conception of Chaos* for Saxophone Quartet
 - Fifteen Minutes of Fame performed by New Thread Quartet, New York, NY

2014

- *91o(X) F[+X]F[-X]+X* for Interactive Computer
 - International Computer Music Conference, Athens, Greece
- *Story of My Lover* for Voice and Live Electronics,
 - Digitalis, University of Virginia, Charlottesville, VA
 - UVa Composers Showcase, University of Mary Washington, Fredericksburg, VA
- *Limited Aggregation* for Multi Percussion and Computer
 - Technosonics XV, University of Virginia, Charlottesville, VA
- *Pain as Told by the Prophet* for SATB Voice
 - Ekmeles, University of Virginia, Charlottesville, VA
- *Shifting Spaces* for Piano
 - Seung-Hye Kim, University of Virginia, Charlottesville, VA

2013

- *Broken Skyline, Horizontal and Vertical Views, Abstract Overlay* for Fixed Media and Video
 - VAST Exhibition, Venice, Italy
- *Purgatory* for Bassoon
 - South Central Graduate Music Consortium, Duke University, Durham, NC
 - Tea Time Recital, University of Virginia, Charlottesville, VA
- *No Harm Shall Come to Others* for Fixed Media
 - National Students in Electronic Music Event, Temple University, Philadelphia, PA
 - Electroacoustic Barn Dance, University of Mary Washington, Fredericksburg, VA
- *15°(A)A+C[F], F+[D]-[G+A]F, A-[F+C]+B, F<F[FA], F+<A-B[C+D], D[A-F]<E, E<[A]+F[B-D]* for Interactive Computer
 - Digitalis, University of Virginia, Charlottesville, VA
- *Entanglement* for Electric Guitar Quartet
 - Dither, Christ Episcopal Church, Charlottesville, VA

2012

- *91°(X)F[+X]F[-X]+X* for Interactive Computer
 - Issue Project Room Share, Brooklyn, NY
- *A Meeting of Florets* for Prepared Piano
 - Graduate Recital, Wesleyan University, Middletown, CT
- *Florets* for Laptop Ensemble
 - Issue Project Room Share, Brooklyn, NY
 - Graduate Recital, Wesleyan University, Middletown, CT
- *Meditation of a Tree* for Fixed Media
 - Graduate Recital, Wesleyan University, Middletown, CT
 - Florida Electro Acoustic Student Festival, Florida International University, Miami, FL
 - Graduate Recital, Wesleyan University, Middletown, CT
- *Dystopia* for Laptop Ensemble
 - Technosonics XIII, University of Virginia, Charlottesville VA
 - Humanities Week at Dawsons Row No.2, University of Virginia, Charlottesville, VA
- *32o(F+F) F[+F][-F]F[-F[-F][+F]F]* for Interactive Electronics
 - South Central Graduate Music Consortium, University of Virginia, Charlottesville, VA
 - Graduate Recital, Wesleyan University, Middletown, CT
 - Society of Electro Acoustic Music in the United States, Lawrence University, Appleton, WI
- *Sounds of Auditory Hallucination* for Voice and Interactive Computer
 - Graduate Recital, Wesleyan University, Middletown, CT

2011

- *Meditation of a Tree*
 - Graduate Composers Recital, Wesleyan University, Middletown, CT
 - Wesleyan University Center of the Arts, Wesleyan University, Middletown, CT
- *Dystopia* for Laptop Ensemble
 - 12 Nights Festival of Electronic Music and Arts Series, Miami, FL
- *32o(F+F) F[+F][-F]F[-F[-F][+F]F]* for Interactive Computer
 - Graduate Composers Recital, Wesleyan University, Middletown, CT
 - Electro-Bonanza, Florida International University, Miami, FL
- *Sounds of Auditory Hallucination* for Voice and Interactive Computer
 - Subtropics Music Festival, Miami, FL
 - FIU Composers Recital, Florida International University, Miami, FL

2010

- *Sounds of Auditory Hallucination*
 - Electro-Bonanza, Florida International University, Miami, FL

2009

- *The Village of Small People and Animals* for Flute and Bass Flute
 - University of Florida Society of Composers Chapter, Gainesville, FL
- *Week* for Fixed Media

- Florida Electro Acoustic Student Festival, Florida International University, Miami, FL

2008

- *Bow Shock* for Marimba and Interactive Computer
 - Unbalanced Connection Concert, University of Florida, Gainesville, FL

INSTALLATIONS

2016

- *Audio Faces*, Dell Building 1, University of Virginia, Charlottesville, VA

2015

- *Reflective Catacombs*, Technsonics XVI, University of Virginia Old Cabell Hall Catacombs, Charlottesville, VA

2014

- *Reflective Tunnel*, Society for Electro-Acoustic Music United States, Wesleyan University Tunnels, Middletown, CT

2012

- *Circuit Bent Jungle*, Florida International University, Miami, FL

SELECTED WORKS

Definite Failure for Solo Saxophone and Live Score Generation (2017) 7:00-10:00

Garden of Temptation and Being for Interactive Electronics (2016) 10:00

Invisible Signals for Open Instrumentation, Computer and Electromagnetic Microphone (2016) ~10:00

From Noise Comes Being for Interactive Electronics (2016) ~7:00

Establish, Corrupt, Broken for Fixed Media (2016) 7:37

Thixotropy collaborated with Veronica Lam, for 2 People with Electronics (2016) ~10:00

The Body of Sound collaborated with Brittany Snyder for 2 Computers (2016) ~8:00

Cherry Blossom & Blood for Open Instrumentation, Narrator and Computer (2016) ~ 8:00

5 Image Interpretations for String Quartet (2015) ~ 7:00

Lament to Millions of Lost Souls for Fixed Media (2015) 120:00

Inter Diabolus et Virgo for Interactive Computer (2015) ~8:00

Tri Voice Duality for Voice Trio (2015) 3:00

The Garden for Bass Clarinet, Trumpet, Bass Trombone and Baritone Voice (2015) 5:34

Dying Stars Bring Light to a Dark Sky, Fixed Media (2014) 5:27

Limited Aggregation collaborated with Seung-Hye Kim for Multi Percussion and Computer (2014) 8:14
Burning Shrine Crumbles for Percussion Duet (2014) 5:30
When Chaos Shrouds Utopia for Multi-percussion (2014) ~8:00
Story of My Lover for Voice and Interactive Computer (2014) 7:27
When Will the Destruction End? Fixed Media (2014) 1:02
The Conception of Chaos for Saxophone Quartet (2014) 1:00
Shifting Spaces for Solo Piano (2014) 7:04
Traversing Eternity for Piano, Violin, Cello and Computer (2013) 24:00
Small Groups of People Bring Collapse for Laptop Ensemble (2013) 6:45
Pain as Told by the Prophet for Voice Quartet and Computer (2013) 8:05
Purgatory for Solo Bassoon (2013) 8:00
X>pow(10,-4) for Fixed Media (2013) 2:08
No Harm Shall Come to Others for Fixed Media (2012) 7:04
Entanglement for Guitar Quartet (2012) 7:24
91(X)F[+X]F[-X]+X,F for Interactive Computer (2012) Time Range 5:00 – 15:00
Florets for Laptop Ensemble (2012) Time Range 5:00 – 10:00
Meditation of a Tree for Fixed Media (2011) 9:50
Dystopia for Laptop Ensemble (2011) 7:00
A Meeting of Florets for Prepared Piano (2010) Time range 15:00 – 30:00
32o(F+F) F[+F][F[-F]F[-F[-F][+F]F] for Interactive Computer (2010) Time range 5:00 – 15:00

PROFESSIONAL MEMBERSHIPS

Society of Composers, Inc (SCI)
 Society of Electro-Acoustic Music in the United States (SEAMUS)
 American Composers Forum
 Broadcast Music Incorporated

REFERENCES

Dr. Judith Shatin, University of Virginia, Wilson Hall 111, Charlottesville, VA, 22904,
jsa@eservices.virginia.edu, 434.924.3052

Dr. Paula Matthusen, Wesleyan University, Music Studios, 297 Washington Terrace, Middletown, CT,
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