

Curriculum vitæ

**SETH SHAFER**

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phone: [REDACTED]**EDUCATION**

- 2013- **Ph.D. Music** composition, University of North Texas (anticipated May 2017)  
 Composition studies with Andrew May, Jon Christopher Nelson, and Panayiotis Kokoras  
 New Media Art studies with David Stout  
 Art/Science studies with Ruth West
- 2009-12 **Master of Music** composition, Cole Conservatory of Music, CSU Long Beach  
 Composition studies with Martin Herman, Alan Shockley, and Robin Cox
- 2001-06 **Bachelor of Music** composition and performance, magna cum laude. CSU Long Beach  
 Composition studies with Justus Matthews, Carolyn Bremer, and Perry LaMarca  
 Tuba studies with John Van Houten
- Additional Lessons and Master Classes**  
 Chaya Czernowin, Keith Kirchoff, Elaine Lillios, Madeline Shapiro, Carl Stone, Aaron Cassidy, Christian Wolff, Michael Daugherty, Robert Dick, and Brian Eno.

**TEACHING EXPERIENCE**

- 2013- **University of North Texas**
- Intermedia Performance Arts** Graduate Assistant to David Stout  
 Lectures and technical support toward production of class performance, emphasizing repertoire analysis, historical context, intermedia composition, computer music media, and interactive theater. Graduate and undergraduate students.
- Sophomore Seminar** Teaching Assistant to Kirsten Broberg  
 Seminar lectures on indeterminacy, complexity, and issues of scale.
- Intermediate Composition Lessons** Teaching Fellow (teacher of record)  
 Undergraduate individual composition lessons, recorded project readings of sophomore compositions.
- Introduction to Electroacoustic Music** Teaching Fellow (course design, teacher of record)  
 Introduction to electroacoustic music including a historical survey, general acoustics, principles of analog and digital audio, MIDI, synthesis, sampling, and interactive music software design. Student work included writing, composition projects, and a final class concert. Graduate and undergraduate students.
- Beginning Composition II / Class Composition II** Teaching Fellow (co-teacher of record)  
 First-year composition course covering extended notation, advanced rhythm, music as process, indeterminacy and aleatory, minimalism, post-tonal theory, electronic music, postmodernism, timbre, texture, and space.
- Beginning Composition I / Class Composition I** Teaching Assistant to Joseph Klein  
 First-year composition course covering standard notation, melodic and harmonic variation, text setting, polytonality, and twelve-tone theory.
- Computer Music Notation** Teaching Fellow (course design, teacher of record)  
 Seminar and lab on notation and its modern production through the computerized engraving program Finale and vector graphics editor Adobe Illustrator.

2009-13 **Cole Conservatory, CSU Long Beach****Composition with Interactive Technologies** Co-Instructor with Martin Herman (course co-design)

Presented lectures and demonstrations in laboratory/seminar environment. Graduate and undergraduate students.

**Laptop Ensemble** Assistant Director (course co-design)

Composed music, conducted rehearsals, supervised technical setups, coached performers and composers. Graduate and undergraduate students.

**Writing About Music** Teaching Associate (teacher of record)

Online course exploring research methods, bibliography, attribution, and general writing improvement.

**Introduction to Basic Music Technology** Teaching Associate (teacher of record)

Online course on digital audio, recording, sequencing, and computer notation.

**Music and Film** Graduate Assistant to Roger Hickman

Paper reading and assessment for course on the history of music in film.

2007-13 **Cypress College****Audio Production for Film I** Adjunct Faculty (course design, teacher of record)

History and technique of creating a polished soundtrack for film. Projects and lectures focus on dialog, sound effects, and musical elements.

**Introduction to Music Technology** Adjunct Faculty (course co-design, teacher of record)

Wide focus on application of technology in music including MIDI, synthesis, notation, and sampling.

**Audio Production for Film II** Adjunct Faculty (course design, teacher of record)

Advanced study of postproduction processes including ADR, location sound, Foley, orchestration, and multichannel surround sound mixing.

**Recording Studio I** Adjunct Faculty (teacher of record)

Introduction to studio concepts, practices, and theories with guided projects in lab.

**Recording Studio II** Adjunct Faculty (teacher of record)

Advanced recording engineering using Pro Tools, Logic, and the Control 24 console, including theoretical discussion and practical application.

**Recording Studio Lab** Adjunct Faculty (teacher of record)

Individual instruction in-studio on topics including signal flow, microphone placement, equalization, compression, gating, bussing, and side chaining.

**RESEARCH EXPERIENCE****University of North Texas**

2013- **Center for Experimental Music and Intermedia (CEMI)**, Graduate Assistant to Andrew May (2013-16) and Panayiotis Kokoras (2016-17)

Intermedia concerts and festivals including ICMC 2015, ICEM 2014, Electric LaTeX 2014, and CEMIcircles 2013. Technical experience with mixing board, live audio diffusion, computer audio and video, lighting design, equipment maintenance, 24.3-channel theater, three 8-channel studios, and two 2-channel studios.

- 2014- **Initiative for Advanced Research in Technology and the Arts (iARTA)** Graduate Assistant to David Stout  
Design, construction, and installation of interactive floor projection system, technical director for iARTA Symposium 2015, and Hybrid Arts Lab (HAL) technician.
- 2015- **xRez Art + Science Lab** Research Intern for Ruth West  
Assist in conducting TxHATS conference, Art + Science Rendezvous Symposium, and general lab meetings.

### Cole Conservatory, CSU Long Beach

- 2005-12 **Recital Hall Technician** College of the Arts, CSU Long Beach.  
Audio technician, recording engineer, and lighting designer for music and theatre departments.

### **PUBLICATIONS**

- 2017 **Performing Real-Time Notation** [in revision] January 2017 eContact! Journal of Canadian Electroacoustic Community 18.4  
<http://econtact.ca/>
- 2016 **Performance Practice of Real-Time Notation** May 28, 2016 Proceedings of the 2016 Int'l Conf. on Technologies for Music Notation & Representation  
ISBN: 978-0-9931461-1-4
- 2015 **VizScore: An On-Screen Notation Delivery System for Live Performance** September 25, 2015 Proceedings of the 2015 Int'l Computer Music Conf.  
ISSN: 2223-3881

### **RECORDINGS**

#### Audio

- 2014 **40th Int'l Computer Music Conference** September 15, 2014 Int'l Computer Music Assoc.  
**Pulsar [Variant II]** (Glen Gray, horn)
- 2016- **Wesley Chung** arranger, keyboards, tuba, engineer, mixing  
**Neon Coast** anticipated June 2017 Struggletown Records
- 2013- **The Great Albatross** songwriter, arranger, keyboards, tuba, engineer, mixing  
**Asleep in the Kaatskills** anticipated February 2017 Struggletown Records  
**Roots** [7-inch] May 30, 2014 Count Your Lucky Stars  
**Into It. Over It. / The Great Albatross** [split] August 2, 2013 Struggletown Records
- 2013 **Vampire Weekend** tuba  
**Modern Vampires of the City** May 6, 2013 XL Recordings  
(Grammy: Best Alternative Music Album, 2014)
- 2010 **Chris Schlarb** arranger  
**Psychic Temple** November 23, 2010 Asthmatic Kitty

2008-11 **Boris Smile** songwriter, arranger, tuba, keyboards, engineer, mixing, mastering  
*My Love Powered by 10,000 Practice Amps* February 22, 2011 Count Your Lucky Stars  
*Rockets* [EP] March 16, 2010 Count Your Lucky Stars  
*Beartooth* [EP] November 4, 2008 Count Your Lucky Stars  
*Young and It Feels So Good* February 26, 2008 self-released

2010-11 **Paulie Pesh** tuba, mixing, mastering  
*Post Mortem* [EP] April 5, 2011 self-released  
*Shining Stars* [EP] November 1, 2010 self-released

2009 **Korey Dane** mixing, mastering  
*For the Kite Fliers* November 10, 2009 self-released

### Film

2013 **Circle the Wagen** composer Ryan Steven Green, dir.  
 (Columbia Gorge International Film Festival 2013: Best Documentary Feature)  
 2010 **Between the Upper Lip and Nasal Passageways** composer Ryan Steven Green, dir.  
 (Festivus Film Festival: Best Documentary Short)  
 2008 **Run Run Run** composer Emmanuel Bageris, dir.  
 (Campus Movie Fest 2008: Best Picture)  
 2007 **Across the White Line** composer Marlowe Green, dir.  
 2006 **The Breed** orchestrator Wes Craven, prod.  
 2005 **El Paletero** composer Bryan Thompson, dir.  
 2004 **The Gravediggers** composer Bryan Thompson, dir.

### **LIST OF WORKS (SINCE 2009)**

In Progress **[untitled work]** harp  
 commissioned by the 4<sup>th</sup> Annual Costello Competition for Composition  
**Terraformation** viola and computer [real-time notation]  
**Instrument: One Antarctic Night** VR intermedia installation  
 in collaboration with Ruth West, xREZ Art + Science Lab, and the Antarctica Schmidt Telescopes project  
**Strange Attractors** generative pseudo-hologram installation  
 2016 **Polytera II** flute, piano, and computer [real-time notation]  
 commissioned by Elizabeth McNutt and Shannon Wettstein  
**Everything Will Be Shaken** ambisonic audio [fixed media], 14'  
**Digital Drum Circle** interactive multimedia installation  
 2015 **Polytera I** viola, bass clarinet, and marimba, 12'  
**Double Helix** interactive projection and generative 2-channel audio installation  
**Hookean Elastics** 2-channel audio [fixed media], 8'30"  
**Law of Fives** viola, bass clarinet, marimba, and computer [real-time notation], 9'45"  
**Sol Invictus** 5-channel projection installation  
**Ursa Minor** euphonium and computer [animated notation], 8'30"  
 commissioned by Tom Mahovsky

- 2014 **Pulsar [Variant II]** trumpet and computer [animated notation], 10'  
**WHATAREYOULOOKINGAT** live data mining, samplers, and interactive projection, 22'  
**Night in Arcturus Stream** harp, 8'30"
- 2013 **Seized at the Root** multimedia for fixed playback & installation, 5'30"  
**Piute/Emerson/Bach** soprano sax, alto sax, bassoon, trumpet, violin, and double bass, 10'  
**Dark Star** 2-channel audio [fixed media], 6'  
**Making Music With Everyday Sounds** interactive multimedia installation  
**Upon Return to Earth** (rev. 2014), laptop quartet, 4'  
**Silbertöne** horn, violin, and laptop quartet [animated notation], 6'  
**Pulsar [Variant I]** horn and computer [animated notation], 5'  
**Finale, In Praise of Immaculate Data Structures** laptop quartet [animated notation], 8'  
**Dance Movement (Noise Drum)** laptop quartet, 7'
- 2012 **Gravity Well** laptop quartet [animated notation], 10'  
**The Truth About Butterflies** dancer and 2-channel audio [fixed media], 11'  
for Johnna Wickstrom  
**Just One Dance** music for film, 6'  
**Superchoir** laptop quartet [animated notation], 6'  
**Ego Sum Lux Mundi** a cappella choir, 5'  
**Music for Knobs** (installation), interactive sound installation  
**Wangany Rulu** Korg DDD-1 drum machine, 6'30"  
**Satellites** music for film, 16'  
**Cage Songs No. 17 & 43** vocalist and laptop quartet, 12'  
for Jacqueline Bobak and Vir2Ual Cage  
**Music for Knobs II** four performers with giant knobs [animated notation], 7'  
**Music for Knobs I** four performers with giant knobs [animated notation], 7'30"
- 2011 **Anomaly** solo flute, electronics, oboe, clarinet, horn, trombone, vibraphone, violin, and double bass, 16'30"  
**Two Channel Music Tape: Spring/Fall** 2-channel audio [fixed media] for Nam June Paik installation, 32'20"  
for The Getty's Pacific Standard Time Initiative  
in collaboration with Zach Lovitch and Andy Zacharias  
**Weird Birds** wind ensemble, 8'30"  
**Water, Falling Upward** (rev. 2013), flute, clarinet, and bassoon, 2'  
**Like a Spear from the Earth** three performers [open instrumentation] and computer, 9'  
**Three** flute, piano, double bass, and computer [animated & real-time notation], 15'  
in collaboration with Zach Lovitch and Andy Zacharias  
**Sad Divisions** flute, oboe, bass clarinet, violin, cello, and piano, 1'30"  
for the Definiens Ensemble
- 2010 **We Interrupt This Broadcast** laptop quartet, 7'  
**The Avi Box** live sampling improvisation environment  
**The 20th Century Motor Company** string quartet, 7'  
**Meeting At Night** tenor and piano, 3'  
**Letting in the Jungle** tenor and piano, 8'  
**Imprint** 2-channel audio [fixed media], 2'

- 2009 **Coldwater Canyon** string trio, 1'30"  
for the Mojave Trio
- Quasar** three brass quintets, 7'
- Bio-Glow** percussion quintet, 6'
- Pulsar** trombone and computer, 7'30"
- The Oaks of Righteousness** a cappella choir, 3'30"

### SELECTED PERFORMANCES (SINCE 2009)

- 2017 **Silbertöne** Kulturhaus alte feuerwache Studiobühne, Berlin. January 18, 2017.
- Upon Return to Earth** Kulturhaus alte feuerwache Studiobühne, Berlin. January 18, 2017.
- Silbertöne** Hamburger Sprechwerk, Hamburg. January 16, 2017.
- Upon Return to Earth** Hamburger Sprechwerk, Hamburg. January 16, 2017.
- 2016 **Silbertöne** Cole Conservatory, CSU Long Beach. November 30, 2016.
- Upon Return to Earth** Cole Conservatory, CSU Long Beach. November 30, 2016.
- Everything Will Be Shaken** Diffrazioni Multimedia Festival, Florence, Italy. November 21, 2016. [Juried]
- Ursa Minor** University of Texas. Electric LaTeX Festival. November 5, 2016.
- Everything Will Be Shaken** CCRMA, Stanford University. October 5, 2016. [Invited]
- Hookean Elastics** SMC, Hamburg, Germany. September 1, 2016. [Juried]
- Hookean Elastics** NYCEMF, Abrons Arts Center, New York. June 19, 2016. [Juried]
- Everything Will Be Shaken** University of North Texas. May 12, 2016.
- Night in Arcturus Stream** University of North Texas. April 26, 2016.
- Sol Invictus** Perot Museum of Nature and Science, Dallas. April 22, 2016. [Invited]
- Digital Drum Circle** Perot Museum of Nature and Science, Dallas. April 22, 2016. [Invited]
- Hookean Elastics** University of North Texas. February 15, 2016.
- 2015 **Strange Attractors** iARTA Lab Preview, University of North Texas. December 8, 2015.
- Double Helix** xRez Lab Preview, University of North Texas. December 4, 2015.
- Gravity Well** Cole Conservatory, CSU Long Beach. December 2, 2015.
- Law of Fives** Shanghai Conservatory of Music Electronic Music Week. October 20, 2015. [Juried]
- Pulsar [Variant II]** ICMC, University of North Texas. September 30, 2015. [Juried]
- Pulsar [Variant II]** The Engine Room Sound Art and Electronic Music Symposium, Morley College, London. July 18, 2015. [Juried]
- Sol Invictus** University of North Texas. April 20, 2015.
- Ursa Minor** University of North Texas. March 23, 2015.
- Pulsar [Variant II]** University of North Texas. March 2, 2015.
- 2014 **Dark Star** Audio Art Festival, Kraków, Poland. November 20, 2014. [Invited]
- Quasar** True Brass Choir, Lakewood, CA. October 19, 2014.
- Dark Star** ICMC/SMC, Athens, Greece. September 18, 2014. [Juried]
- Pulsar [Variant I]** ICMC/SMC, Athens, Greece. September 15, 2014. [Juried]
- Dark Star** NYCEMF, Abrons Arts Center, New York. June 7, 2014. [Juried]
- Pulsar [Variant II]** University of North Texas. May 9, 2014.
- Upon Return to Earth** Cole Conservatory, CSU Long Beach. April 27, 2014.
- WHATAREYOULOOKINGAT** University of North Texas. April 14, 2014.
- Pulsar [Variant I]** University of North Texas. April 6, 2014.

- Dark Star** University of North Texas. March 24, 2014.
- Upon Return to Earth** Julio Cortázar Conference, CSU Long Beach. March 21, 2014. [Invited]
- Upon Return to Earth** LA Art Stream, Live Webcast. February, 26, 2014.
- Silbertöne** LA Art Stream, Live Webcast. February, 26, 2014.
- Dark Star** National Student Electronic Music Event (N\_SEME), Georgia Southern University. February 21, 2014. [Juried]
- Circle the Wagen** Whole Foods Tribal Gathering, Austin. February 21, 2014.
- Circle the Wagen** Boulder International Film Festival. February 13, 2014.
- 2013 **Water, Falling Upward** Federal University of Goiás, Goiânia. December 11, 2013.
- Water, Falling Upward** University of Brasília, Brasília. December 9, 2013.
- Circle the Wagen** United Film Festival, Tulsa. December 8, 2013.
- Circle the Wagen** Highland Park Film Festival. December 7, 2013.
- Water, Falling Upward** Fundação Casa França-Brasil, Rio de Janeiro. December 7, 2013.
- Silbertöne** Cole Conservatory, CSU Long Beach. December 4, 2013.
- Upon Return to Earth** Cole Conservatory, CSU Long Beach. December 4, 2013.
- Piute/Emerson/Bach** Nova Ensemble, University of North Texas. November 21, 2013.
- Pulsar** Electric LaTeX Festival, Tulane University. October 26, 2013. [Invited]
- Circle the Wagen** Austin Film Festival. October 26, 2013.
- Circle the Wagen** Orlando Film Festival. October 19, 2013.
- Music for Knobs I** OK Electric Festival, Living Arts, Tulsa. October 19, 2013. [Invited]
- Silbertöne** Long Beach Soundwalk. October 5, 2013. [Invited]
- Upon Return to Earth** Long Beach Soundwalk. October 5, 2013. [Invited]
- Pulsar [Variant I]** CEMlrces Festival, University of North Texas. October 5, 2013. [Invited]
- Making Music With Everyday Sounds** Perot Museum of Nature and Science, Dallas. October 4, 2013. [Invited]
- Circle the Wagen** Columbia Gorge Film Festival. August 15, 2013.
- Circle the Wagen** Topanga Film Festival. July 20, 2013.
- Circle the Wagen** Downtown Film Festival, Los Angeles. July 18, 2013.
- Love and Dream Painted with Song** Festival dei Due Mondi Spoleto. July 9-12, 2013 (4 perf.). [Invited]  
collaboration with Byungkoo Ahn and CSU Long Beach Laptop Ensemble  
performances of **Silbertöne** and **Upon Return to Earth**
- Circle the Wagen** Albuquerque Film and Media Experience. June 9, 2013.
- Pulsar [Variant I]** Cole Conservatory, CSU Long Beach. May 14, 2013.
- Finale, In Praise of Immaculate Data Structures** University Art Museum, CSU Long Beach. May 8, 2013.
- Dance Movement [Noise Drum]** University Art Museum, CSU Long Beach. May 8, 2013.
- Finale, In Praise of Immaculate Data Structures** Cole Conservatory, CSU Long Beach. April 21, 2013.
- Dance Movement [Noise Drum]** Cole Conservatory, CSU Long Beach. April 21, 2013.
- 2012 **Ego Sum Lux Mundi** Grace Brethren Church Long Beach. December 9, 2012.
- Gravity Well** Cole Conservatory, CSU Long Beach. November 18, 2012.
- Gravity Well** University Art Museum, CSU Long Beach. November 15, 2012.
- Superchoir** Arts Month, Gamboa Theater, Long Beach. October 26, 2012. [Invited]
- Cage Songs No. 17 & 43** Arts Month, Gamboa Theater, Long Beach. October 26, 2012. [Invited]
- Weird Birds** Cole Conservatory, CSU Long Beach. October 18, 2012.
- The Truth About Butterflies** Martha Knoebel Dance Theater, Long Beach. October 11-13, 2012 (3 perf.).

- Cage Songs No. 17 & 43** Long Beach Soundwalk. September 1, 2012.
- Superchoir** Long Beach Soundwalk. September 1, 2012. [Invited]
- Music for Knobs (installation)** Long Beach Soundwalk. September 1, 2012. [Juried]
- Just One Dance** Dance Department, CSU Long Beach. August 31, 2012.
- Knobs Improv** (improvisation) Convoke!, Cole Conservatory, CSU Long Beach. May 17, 2012.
- Music for Knobs I & II** Altered Reality Festival, University Theater, CSU Long Beach. May 8, 2012. [Invited]
- Cage Songs No. 17 & 43** Cole Conservatory, CSU Long Beach. April 7, 2012.
- Like a Spear from the Earth** University Art Museum, CSU Long Beach. April 5, 2012.
- Music for Knobs I** University Art Museum, CSU Long Beach. April 5, 2012.
- Waggany Rulu** Cole Conservatory, CSU Long Beach. April 3, 2012.
- Like a Spear from the Earth** Merge Festival, Long Beach. March 31, 2012. [Invited]
- Music for Knobs I & II** Merge Festival, Long Beach. March 31, 2012. [Invited]
- Between the Upper Lip and Nasal Passageway** The International Moustache Film Festival 2012, Portland. March 30, 2012.
- Like a Spear from the Earth** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Bio-Glow** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Anomaly** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- The 20th Century Motor Company** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Music for Knobs I** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Quasar** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Pulsar** Graduate Recital, Cole Conservatory, CSU Long Beach. March 9, 2012.
- Cage Songs No. 17 & 43** Cole Conservatory, CSU Long Beach. February 20, 2012.
- Cage Songs No. 17 & 43** Vir2Ual Cage, CalArts, February 5, 2012. [Invited]
- 2011 **Music for Knobs I & II** Cole Conservatory, CSU Long Beach. November 20, 2011.
- Knobs Improv** (improvisation) Cole Conservatory, CSU Long Beach. November 8, 2011.
- Two Channel Music Tape: Spring/Fall** Long Beach Museum of Art. October 7, 2011 – February 12, 2012.
- Water, Falling Upward** Wine & Wheels, Hollywood. June 5, 2011. [Invited]
- Suppressed Composers Project**, orchestrator. Concert of music by composers displaced by fascism in the 20th century. First Congregational Church of Los Angeles. May 1, 2011.
- Like a Spear from the Earth** Cole Conservatory, CSU Long Beach. April 26, 2011.
- Three** Cole Conservatory, CSU Long Beach. April 26, 2011.
- Sad Divisions** Definiens Ensemble, Cole Conservatory. CSU Long Beach, February 28, 2011.
- 2010 **We Interrupt This Broadcast** Cole Conservatory, CSU Long Beach. December 14, 2010.
- The Avi Box** Day of the Arts, CSU Long Beach. November 17, 2010.
- Quasar** University Brass Ensemble, Cole Conservatory, CSU Long Beach. November 3, 2010.
- Meeting at Night** Cole Conservatory, CSU Long Beach. October 11, 2010.
- Between the Upper Lip and Nasal Passageway** Columbia Gorge International Film Festival, Vancouver. August 21, 2010.
- Letting in the Jungle** Cole Conservatory, CSU Long Beach. May 19, 2010.
- Imprint** Cole Conservatory. CSU Long Beach, May 18, 2010.
- Between the Upper Lip and Nasal Passageway** Indie Spirit Film Festival, Colorado Springs. April 23, 2010.
- Coldwater Canyon** Mojave Trio, Cole Conservatory. CSU Long Beach, March 15, 2010.
- Between the Upper Lip and Nasal Passageway** Dam Short Film Festival, Boulder City, NV. February 11, 2010.



**Between the Upper Lip and Nasal Passageway** Greater Colorado Short Circuit Film Series, Colorado Springs.  
January 27, 2010.

**Between the Upper Lip and Nasal Passageway** Festivus Film Festival, Best Documentary Short, Denver.  
January 14, 2010.

2009 **Oaks of Righteousness** Grace Brethren Church Long Beach. December 20, 2009.

**Pulsar** Cole Conservatory, CSU Long Beach. December 2, 2009.

## AWARDS AND HONORS

2016-17 **Finalist for The 4<sup>th</sup> Annual Costello Composition Competition** for *Night in Arcturus Stream*. Lyra Society, PA.

2015 **Finalist for The Engine Room's International Sound Art Exhibition** for *Pulsar [Variant II]*. London, UK.

2012 **Composer of the Year** for “exceptional ability and outstanding achievements” in composition. Cole Conservatory, CSU Long Beach.

2006 **Outstanding Graduate** College of the Arts, CSU Long Beach.

**Dr. Don Andrus Memorial Scholarship for Electronic Music** for “outstanding achievements in electronic music.” CSU Long Beach.

2005- **Pi Kappa Lambda National Honor Society** CSU Long Beach Chapter.

2004 **Paul C. Lindsey III Memorial Scholarship** for “exceptional achievement and promise in music composition.” CSU Long Beach.

## GRANTS AND FELLOWSHIPS

2013-17 **Graduate Assistant Tuition Scholarship** for “superior academic achievement and exceptional promise for scholarly success in graduate studies,” University of North Texas.

2016 **Craig B. Raupe Travel Grant** for attending SMC 2016, Hamburg, DE.

**Toulouse Graduate School Travel Grant** for attending SMC 2016, Hamburg, DE.

**Toulouse Graduate School Travel Grant** for attending TENOR 2016, Cambridge, UK.

2015 **Craig B. Raupe Travel Grant** for attending Shanghai Electronic Music Week 2015.

**Toulouse Graduate School Travel Grant** for attending Shanghai Electronic Music Week 2015.

**Paul G. Bonneau Travel Scholarship** for attending Shanghai Electronic Music Week 2015.

2014 **Craig B. Raupe Travel Grant** for attending ICMC 2014, Athens, Greece.

**Toulouse Graduate School Travel Grant** for attending ICMC 2014, Athens, Greece.

**Paul G. Bonneau Travel Scholarship** for attending ICMC 2014, Athens, Greece.

2009-12 **Cole Conservatory Scholarship**. Cole Conservatory, CSU Long Beach.

## SERVICE AND ORGANIZATIONS

2015- **ScoreFollower.com** (new music recording + score YouTube videos) video production and curating consultant.

2016- **bach automated composer's helper** (Max externals, bachproject.net) pre-beta tester.

2014- **International Computer Music Association** member.

2014-15 **Composer's Forum** graduate vice president. University of North Texas.

2013-14 **eMotion Technologies eMersion System** (wireless gesture sensors) beta tester and product demos.

2013- **American Composers Forum** member.

2010-12 **Composer's Guild** vice president. Cole Conservatory, CSU Long Beach.

## CONFERENCE, FESTIVAL, AND CONCERT ORGANIZING ACTIVITY

### Conferences and Festivals Organized

- 2016 **Texas Humanities Arts Technology Sciences (TxHATS)** venue assistant and audio setup, University of North Texas.
- Leonardo Art/Science Evening Rendezvous** venue assistant, University of North Texas.
- 2015 **International Computer Music Conference** technical planning and venue technician, University of North Texas.
- Initiative for Advanced Research in Technology and the Arts Symposium** technical director, University of North Texas.
- 2014 **International Confederation of Electroacoustic Music (CIME / ICEM)** venue technician, University of North Texas.
- Electric LaTeX Festival** performer-composer liaison, rehearsal coordinator, University of North Texas.
- 2013 **CEM|circles Festival** venue technician, University of North Texas.
- Electric LaTeX Festival** University of North Texas campus submission organizer, Tulane University.

### Concerts Organized

- 2015 **nanoGalactic** technical director, performance and immersive installation. University of North Texas. April 20, 2014.
- 2014 **Contact++** assistant technical director, intermedia performance. University of North Texas. April 14, 2014.
- 2012 **Sampling Concert** co-organizer, student-initiated electronic music concert. CSU Long Beach. April 3, 2012.
- 2011 **Knobs Concert** co-organizer, student-initiated electronic music concert. CSU Long Beach. November 8, 2011.
- Computer Music** co-organizer, student-initiated electronic music concert. CSU Long Beach. April 26, 2011.

### Papers Presented

- 2017 **International Conference on Technologies for Music Notation and Representation**  
 “Performer Action Modeling in Real-Time Notation” [in review]  
 “Performer Action Modeling in *Terraformation*” paper + piece [in review]
- 2016 **International Conference on Technologies for Music Notation and Representation**  
 “Performance Practice of Real-Time Notation”
- 2015 **International Computer Music Conference**  
 “VizScore: An On-Screen Notation Delivery System for Live Performance”

### Music Presented

- 2017 **SEAMUS Conference** *Polytera II* (2016) [in review]
- 2016 **Diffrazioni Multimedia Festival** *Everything Will Be Shaken* (2016)
- Electric LaTeX Festival 2016** *Ursa Minor* (2015)
- Sound and Music Computing Conference** *Hookean Elastics* (2015)
- New York City Electroacoustic Music Festival** *Hookean Elastics* (2015)
- 2015 **Shanghai Conservatory of Music Electronic Music Week** *Law of Fives* (2015)
- The Engine Room London Sound Art and Electronic Music Symposium** *Pulsar [Variant II]* (2014)
- New York City Electroacoustic Music Festival** *Dark Star* (2013)

2014	<b>International Computer Music Conference</b>	<i>Pulsar [Variant II]</i> (2014)
	<b>Audio Art Festival, Kraków, Poland</b>	<i>Dark Star</i> (2013)
	<b>International Computer Music Conference / Sound and Music Computing</b>	<i>Pulsar [Variant I]</i> (2013)
		<i>Dark Star</i> (2013)
	<b>National Student Electronic Music Event (N_SEME)</b>	<i>Dark Star</i> (2013)
2013	<b>CEM circles</b>	<i>Pulsar [Variant II]</i> (2014)
	<b>Electric LaTeX Festival 2013</b>	<i>Pulsar</i> (2009)
	<b>OK Electric Festival</b>	<i>Music for Knobs I</i> (2011)
	<b>Festival dei Due Mondi Spoleto</b>	<i>Silbertöne</i> (2013)
		<i>Upon Return to Earth</i> (2013)

## SELECTED EXPERIENCE AS A PERFORMER

2016	<b>Electric LaTeX</b> tuba. Performed <i>Ursa Minor</i> . University of Texas. November 5, 2016.
	<b>TENOR 2016</b> percussion. Performed Ryan Ross Smith's <i>Study No. 50</i> . Cambridge, UK. May 29, 2016.
2015	<b>Noisy Ambient Visual Beauty</b> modular synthesizer, live improvisation. Rubber Gloves, Denton. October 28, 2015.
	<b>Ex Mus Expanded Sleep</b> modular synthesizer, live improvisation. Beefhaus, Dallas. March 13-14, 2015.
2014	<b>CIME/ICEM 2014</b> live diffusion. Eight channel diffusion of Ken Gubler's <i>Kontinuum</i> and Kenn Mouritzen's <i>Mo-du-lo</i> , University of North Texas. October 4, 2014.
	<b>CIME/ICEM 2014</b> live processing. Telematic improvisation involving Argentine Trio Alcaraz-Biffarella-Catalano, University of North Texas. October 2, 2014.
2013	<b>OK Electric 2013</b> knobs, computer. <i>Music for Knobs I</i> , Living Arts, Tulsa, OK. October 19, 2013.
	<b>CEM circles Festival</b> computer. Directed and performed Stephen David Beck's <i>inChuck</i> , University of North Texas. October 5, 2013.
	<b>South by Southwest (SXSW)</b> keyboards. The Great Albatross, Austin, TX. March 14-15, 2013.
2012	<b>Long Beach Arts Month, Manazer Gamboa Community Theater</b> computer. CSU Long Beach Laptop Ensemble. October 26, 2012.
	<b>Long Beach Soundwalk</b> knobs, computer. Interactive sound installation using large, custom-designed, Arduino-based controller. September 1, 2012.
	<b>Sampling Concert</b> Korg DDD-1 drum machine. Cole Conservatory, CSU Long Beach. April 3, 2012.
	<b>W.I.R.E.:t/a/p</b> composer, computer, tuba. Concert as part of CSU Long Beach University Art Museum's installation of Lou Reed's <i>Machine Metal Music</i> . April 5, 2012.
	<b>Vir2Ual Cage: The Long Books</b> computer. Part of a complete performance of John Cage's songbooks. California Institute for the Arts. February 5, 2012.
2011	<b>Knobs Concert</b> ARP 2600, SCI Pro One. Cole Conservatory, CSU Long Beach. November 8, 2011.
	<b>Computer Music</b> tuba, computer. Cole Conservatory, CSU Long Beach. April 26, 2011.
	<b>New Music Ensemble</b> synthesizers. Participant in a performance of Erik Satie's <i>Vexations</i> . Cole Conservatory, CSU Long Beach. February 20, 2011.
2010	<b>New Music Ensemble</b> synthesizers. Performance of Terry Riley's <i>In C</i> . October 5, 2010.
2008-10	<b>Cypress Scratch Orchestra</b> , tuba.
2008	<b>Golden State Pops Orchestra</b> tuba.

## PROFESSIONAL SKILLS

**Languages:** English (native), German (basic), French (basic)

**Music Notation Software:** Finale, Sibelius, Lilypond, bach (Max externals)

**Mixing / Mastering Software:** Yamaha CL digital mixers, Dante network audio, Allen and Heath GL analog mixers, Pro Tools, Logic Pro, Reaper, Ableton Live, Audacity, Reason

**Digital Signal Processing:** Max/MSP/Jitter (advanced), PureData, Supercollider, CSound, Arduino/Processing, Soundhack, Faust

**Video Software:** Premiere, After Effects, Final Cut Pro, Compressor, DVD Studio Pro

**Graphic Software:** Photoshop, Illustrator, InDesign, Acrobat

**Web Development:** HTML/CSS, Drupal, Dreamweaver

## SOFTWARE DESIGN

- 2016 High-order ambisonic impulse response reverb design proposed by Fernando López Lezcano.
- 2016 Software design and presentation at the Perot Museum of Nature and Science of *Digital Drum Circle*, part of Social Science.
- 2014-15 VizScore on-screen notation display platform.
- 2014 Software design and telematic performance in collaboration with Trio Alcaraz-Biffarella-Catalano at CIME/ICEM 2014.
- 2013 Software design and presentation at the Perot Museum of Nature and Science of *Making Music with Everyday Sounds*, part of Social Science and the CEMIcircles Festival.
- 2013 Software design for Martin Herman's *Afterglow* (2013) for laptop ensemble, performed at La Mama Spoleto Open. Commissioned by Martin Herman and the Laptop Ensemble.
- 2013 Software design for Alan Shockley's *[upon] glint in river's bed* (2013) involving four laptops performers with live soloist. Commissioned by Alan Shockley and Martin Herman.
- 2012 Software model of Vesta Koza DIG411 delay system for Thea Musgrave's *Narcissus* (1987). Commissioned by John Barcellona.