

Eric Sheffield

Curriculum Vitae

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EDUCATION

Ph.D. in Music, Experimental Music and Digital Media | August 2019

Louisiana State University

Dissertation: "Designing and Composing for Interdependent Collaborative Performance with Physics-Based Virtual Instruments"

Minor in Digital Art

M.A. in Media Arts, Performing Arts Technology | May 2015

University of Michigan

B.M. in Music, Music Education Instrumental Emphasis | May 2008

University of Wisconsin-Whitewater

EMPLOYMENT

SUNY Broome

Assistant Professor, Music Department | Fall 2019-present

Courses taught: Introduction to Music, Sound Engineering I-IV

Manager of music department computer lab and recording facilities

Academic advisor

Louisiana State University

Coordinator and Instructor, CCT Summer Camps | Summer 2018

Programming Music camp

Graduate Teaching Assistant, School of Music | 2016-2018

Instructor of record: Introduction to Computer Music

Manager of DMC recording studios, computer music lab, and laptop ensemble equipment

Graduate Research Assistant, Center for Computation and Technology | 2015-2016

Research assistant to Edgar Berdahl

Manager of digital fabrication lab and DMC recording studios

University of Michigan

Graduate Assistant, School of Music, Theatre, & Dance | 2013-2015

Teaching assistant: Engineering Applications of Media Technology, Digital Music Ensemble

Research assistant to Performing Arts Technology department

Consultant, GroundWorks Media Lab | 2013-2015

Instructor, MPulse Summer Performing Arts Institutes | Summer 2014

Music technology

University of Wisconsin-Whitewater

Instructor, High School String Orchestra Camp | Summer 2013

Music technology

Technology Coordinator, College of Arts and Communication | 2010-2013

Instructor and counselor, Middle School and High School Band Camp | Summer 2005-2011

Music technology, rehearsal assistant, chamber ensemble director, camp counselor

Student Teacher, Jefferson Middle School and Verona Area High School | 2008

Middle and high school band, music technology

Instructor and counselor, Percussion Camp | Summer 2005-2008

Chamber ensemble director

Audio Technician, College of Arts and Communication | 2005-2007

PUBLICATIONS

Conference Proceedings

2019 Sheffield, Eric, William A. Thompson, and Edgar Berdahl. 2019. "Two Different Paradigms for Network Audio Performance with a Laptop Ensemble." In Proceedings of ICMC, New York, NY, June 16-23, 2019.

Berdahl, Edgar, Austin Franklin, and Eric Sheffield. 2019. "A Spatially Distributed Vibrotactile Actuator Array for the Fingertips." In Proceedings of NIME, Porto Alegre, Brazil, June 3-6, 2019.

2018 Sheffield, Eric. 2018. "Mechanoise: mechatronic sound and interaction in embedded acoustic instruments." In Proceedings of NIME, Blacksburg, VA, June 3-6, 2018.

Berdahl, Edgar, Eric Sheffield, Andrew Pfalz, and Anthony Marasco. 2018. "Widening the razor-thin edge of chaos into a musical highway: Connecting Chaotic Maps to Digital Waveguides." In Proceedings of NIME, Blacksburg, VA, June 3-6, 2018.

2016 Sheffield, Eric, Edgar Berdahl, and Andrew Pfalz. 2016. "The Haptic Capstans: rotational force feedback for music using a FireFader derivative device." In Proceedings of NIME, Brisbane, Australia, July 11-15, 2016, 1-2.

Berdahl, Edgar, Danny Holmes, and Eric Sheffield. 2016. "Wireless vibrotactile tokens for audio-haptic interaction with touchscreen interfaces." In Proceedings of NIME, Brisbane, Australia, July 11-15, 2016, 5-6.

2015 Sheffield, Eric and Michael Gurevich. 2015. "Distributed mechanical actuation of percussion instruments." In Proceedings of NIME, Baton Rouge, Louisiana, USA, May 31-June 3, 2015, 11-15.

Sheffield, Eric, Sile O'Modhrain, Michael Gould, and Brent Gillespie. 2015. "The Pneumatic Practice Pad." In Proceedings of NIME, Baton Rouge, Louisiana, USA, May 31-June 3, 2015, 231-234.

CONFERENCE & FESTIVAL ACTIVITY

Paper Presentations

"Two Different Paradigms for Network Audio Performance with a Laptop Ensemble." ICMC-NYCEMF, New York, NY, June 16-23, 2019

"Widening the razor-thin edge of chaos into a musical highway: connecting chaotic maps to digital waveguides." NIME, Virginia Tech, June 3-6, 2018

"Distributed mechanical actuation of percussion instruments." NIME, Louisiana State University, May 31-June 3, 2015

Posters & Demos

"A Spatially Distributed Vibrotactile Actuator Array for the Fingertips." NIME, Federal University of Rio Grande do Sul, June 3-6, 2019

"Mechanoise: mechatronic sound and interaction in embedded acoustic instruments." NIME, Virginia Tech, June 3-6, 2018

"The Haptic Capstans: rotational force feedback for music using a FireFader derivative device." NIME, Griffith University, July 11-15, 2016

"Wireless vibrotactile tokens for audio-haptic interaction with touchscreen interfaces." NIME, Griffith University, July 11-15, 2016

"The Pneumatic Practice Pad." NIME, Louisiana State University, May 31-June 3, 2015

Programmed Compositions

Electroacoustic Barn Dance | 2011, 2012, 2015, 2019

SEAMUS National Conference | 2017

New York City Electronic Music Festival | 2016, 2017

National Student Electronic Music Event | 2016

Electric LaTeX Festival | 2015

Percussive Arts Society International Conference Tech Day | 2014

Isthmus Dance Festival | 2013

Electronic Music Midwest | 2010, 2013

Electroacoustic Juke Joint | 2008, 2010

Midwest Regional Alternative Dance Festival | 2010

Performances

Electroacoustic Barn Dance | 2012, 2015, 2016, 2018, 2019
New York City Electronic Music Festival | 2016, 2017, 2019
Root Signals | 2019
New Interfaces for Musical Expression International Conference | 2016, 2017
Ebb & Flow Festival | 2017
Electric LaTex Festival | 2015
Electronic Music Midwest | 2010, 2013
Electroacoustic Juke Joint | 2007, 2008, 2009, 2010

Installations

National Student Electronic Music Event | 2018
New Interfaces for Musical Expression International Conference | 2017
Electric LaTex Festival | 2017

Administration

Electroacoustic Barn Dance | 2019
 Technical director
Electroacoustic Barn Dance | 2018
 After hours technical director
Electric LaTex Electronic Music Festival | 2017
 Marketing and outreach, assistant technical director
National Student Electronic Music Event | 2017
 Conference host, executive director, technical director

Panels

“Teaching Music Technology in Diverse Multidisciplinary Classrooms.” Electroacoustic Barn Dance, Jacksonville University, November 9, 2018.
 Organizer and moderator

AWARDS & HONORS

LSU College of Music and Dramatic Arts Student Travel Award | 2016, 2017, 2018
LSU Graduate School Graduate Student Travel Award | 2016, 2017, 2018
University of Michigan Rackham Graduate Student Research Grant | 2015
University of Michigan Rackham Graduate School Conference Travel Grant | 2014, 2015
University of Michigan Taubman College Architecture Student Research Grant | 2014
UW-Whitewater Strategic Initiatives Grant | 2014
UW-Whitewater Non-Instructional Academic Staff Rewards & Recognition Award | 2012
UW-Whitewater Undergraduate Research Grant | 2008

SERVICE

Paper Reviewer

New Interfaces for Musical Expression International Conference | 2015-2016, 2018-2019

Technical Director

EMDM Department Concerts, Louisiana State University | 2015-2018

Program Coordinator

Contemporary Music Concert, SUNY Broome (co-coordinator) | 2019

EMDM Department Concerts, Louisiana State University | 2015-2018

Performing Arts Technology Showcase, University of Michigan | 2014

Performing Arts Technology and Friends Concert, University of Michigan | 2014

SKILLS & TECHNOLOGIES

Expert

Logic Pro, Final Cut Pro, Max, Jitter, Studio One, iMovie, GarageBand, Processing, Arduino, Raspberry Pi, Pure Data, OSC, 3D printing, laser cutting, sensors for multimedia interaction, motors and actuators, audio engineering, live sound reinforcement, multimedia collaboration

Experienced

Adobe Creative Suite, Maya, Rhinoceros, Zbrush, Pro Tools, Audacity, Python, Ableton Live, Reaper, Touch Designer, haptics, physical modeling, machine learning

COMPLETE WORKS & PROJECTS HISTORY

Hydrokardia laptop duet | 2019

- Doctoral Recital, Louisiana State University, April 8, 2019

Metropolacy snare drum and laptop duet | 2019

- Electroacoustic Barn Dance, Jacksonville University, November 15, 2019
- Doctoral Recital, Louisiana State University, April 8, 2019

John Cage's Four4 for Robot Percussion arrangement for solenoids and motors | 2017-2018

Collaboration with Brian Elizondo, Anthony Marasco, and Landon Viator

- National Student Electronic Music Event, University of North Texas, March 9-10, 2018
- Electric LaTeX Festival, Louisiana State University, October 28, 2017

Resuscitation laptop quartet | 2017, revised 2019

- Doctoral Recital, Louisiana State University, April 8, 2019

- EMDM Ensemble Concert, Louisiana State University, November 6, 2017

Water is Thicker than Blood solo for live electronics | 2017

- New York City Electroacoustic Music Festival, June 15, 2017
- Louisiana Art and Science Museum, Baton Rouge, LA, April 30, 2017
- EMDM Studio Recital, Louisiana State University, April 24, 2017
- Ebb & Flow Festival, Baton Rouge, LA, April 1, 2017

Ghostbox interactive installation and haptic musical interface/instrument | 2016

- NIME International Conference, Aalborg University, May 16-19, 2017
- The Body Electric Exhibition, UW-Whitewater, October 20-November 12, 2016

10 Days fixed media for dance | 2016

Collaboration with Samantha Weston (choreography)

- Spring Dance Concert, Louisiana State University, April 23, 2016

i am clicking in a patch solo for live electronics | 2015

- Eyedrum, Atlanta, GA, February 29, 2016
- EMDM Studio Recital, Louisiana State University, November 30, 2015

Flatland for amplified percussion, live processing, and video | 2015

Collaboration with Anna Weisling (video)

- Eyedrum, Atlanta, GA, February 29, 2016
- Electric LaTeX Festival, Rice University, November 21, 2015
- Electroacoustic Barn Dance, University of Mary Washington, October 3, 2015

Feral Pastures interactive installation | 2014

Collaboration with Andy Lin, Noel Hernandez, Timotei Dudas, and Simon Alexander-Adams

- Taubman Gallery, Taubman College, University of Michigan, November 20-December 19, 2014

Walls Have Ears/Eyes/Mouths interactive installation | 2014

- Design Lab 1, Duderstadt Center, University of Michigan, April 2014

Metal Mirror interactive performance system | 2014

- PASIC Tech Day 2.0, IUPUI, Indianapolis, IN, November 19, 2014
- Performing Arts Technology Department Showcase Concert, University of Michigan, March 22, 2014
- Duderstadt Center, University of Michigan, March 14, 2014

Climb stereo audio for dance | 2013

Collaboration with Liz Sexe (choreography)

- High Voltage (four-channel audio-only version), Louisiana State University, April 20, 2016

- Isthmus Dance Festival, UW-Madison, July 6, 2013

spaces/echoes for extended-range glockenspiel, stereo audio file, and video | 2012

Collaboration with Anna Weisling (video), written for percussionist Trevor Saint

- Eyedrum (arranged for electric guitar), Atlanta, GA, February 29, 2016
- PAT and Friends: Electronic Music from the University of Michigan & the University of Illinois, University of Michigan, February 15, 2014
- Test Kitchen Exhibition (fixed video version), Work Gallery, Ann Arbor, MI, September 4-September 20, 2013
- Test Kitchen Opening Reception, Work Gallery, Ann Arbor, MI, September 6, 2013
- Real Time Visuals Workshop 2, Goldsmiths College, June 8, 2013
- Trevor Saint Percussion Recital, UW-Milwaukee, November 12, 2012

SkySequence stereo audio file with video and video-generated audio | 2012

Collaboration with Anna Weisling (video)

- Real Time Visuals Workshop 2, Goldsmiths College, June 8, 2013
- Electroacoustic Barn Dance, University of Mary Washington, November 9, 2012
- Sonict: Music from Wisconsin, UW-Whitewater, October 19, 2012
- Anna Weisling Master's Recital, Queen's University, May 25, 2012

Electronic accompaniment for John Cage's 27'5.44" stereo audio file | 2011

Commissioned by percussionist Trevor Saint

- Trevor Saint Master's Recital, University of Alaska-Fairbanks, May 2, 2011

Arbor I-V fixed media, video with stereo audio | 2011

Collaboration with Anna Weisling (video) and Nick Zoulek (saxophone)

- SEAMUS Conference, St. Cloud State University, April 20, 2017
- New York City Electroacoustic Music Festival, June 18, 2016
- National Student Electronic Music Event, University of Oklahoma, March 26, 2016
- Cinema for the Ears, Louisiana State University, January 25, 2016
- Nick Zoulek Guest Artist Recital, Wayne State University, November 6, 2014
- Time/THEORY. saxophone-electronics-film, ClaZel Theater, Bowling Green, OH, April 29, 2014
- Nick Zoulek, Kerrytown Concert House, Ann Arbor, MI, November 16, 2013
- Time Arts Continuum Exhibition, Walker's Point Center for the Arts, Milwaukee, WI, May 18-June 30, 2012
- ELECTRO.sax.FILM, Cité Internationale Universitaire de Paris France, May 23, 2012
- Sonict New Music Concert, UW-Whitewater, April 24, 2012
- Electroacoustic Barn Dance, University of Mary Washington, October 29, 2011
- Contemporary Saxophone in Various Settings, UW-Whitewater, March 2, 2011

exit crafting structured improvisation for guitar, laptop, bass, and video | 2010

Collaboration with Ben Willis (bass) and Anna Weisling (video)

- Electronic Music Midwest 2013 Invitational Mini-Festival, Western Michigan University, March 17, 2013
- Canterbury House (adding Jeff Herriott on laptop), Ann Arbor, MI, March 16, 2013
- Tour with We Can and We Must (adding Jeff Herriott on laptop)
 - Bryant Lake Bowl, Minneapolis, MN, April 28, 2011
 - Project Lodge, Madison, WI, April 29, 2011
- Guest lecture/performance, UW-Whitewater, December 7, 2010
- Electroacoustic Juke Joint, University of North Alabama, November 12, 2010
- Guest lecture/performance, UW-Madison, November 5, 2010

A Scrape in the Liquid structured improvisation for guitar, laptop, and video | 2010
 Collaboration with Jeff Herriott (electronics) and Anna Weisling (video)

- Canterbury House (adding Ben Willis on bass), Ann Arbor, MI, March 16, 2013
- Tour with We Can and We Must (adding Ben Willis on bass)
 - Bryant Lake Bowl, Minneapolis, MN, April 28, 2011
 - Project Lodge, Madison, WI, April 29, 2011
- Electronic Music Midwest, Lewis University, October 16, 2010

Fine Lines Two stereo audio file for dance | 2009

Collaboration with Jeff Herriott and Barbara Grubel (choreography)

- Midwest Regional Alternative Dance Festival, Kalamazoo, MI, February 27, 2010
- DanceScapes '09, UW-Whitewater, March 15-17, 2009

molecule for percussion and electronics | 2008

- Electroacoustic Juke Joint, Delta State University, November 15, 2008
- Sonict: Student Composers Concert, UW-Whitewater, May 5, 2008
- UW System Symposium for Undergraduate Research and Creative Activity, UW-River Falls, April 25, 2008
- Undergraduate Research Day, UW-Whitewater, April 2, 2008

ether for viola, cello, and electronics | 2007

- Sonict: Student Composers Concert, UW-Whitewater, December 5, 2007

ADDITIONAL PERFORMANCES

Bell Monks (notable performances)

- Ronan School of Music, EABD After Hours, Jacksonville, FL, November 16, 2019
- Eyeclopes Studios, EABD After Hours (with Nick Hwang), Fredericksburg, VA, November 12, 2016
- The Body Electric Exhibition (opening reception), UW-Whitewater, October 20, 2016
- Lost City Music Festival, High Noon Saloon, Madison, WI, August 8, 2013
- Lost City Music Festival, Project Lodge, Madison, WI, July 5, 2012

- Time Arts Continuum Exhibition, Opening Reception, Walker's Point Center for the Arts, Milwaukee, WI, May 18, 2012
- Whitewater Cultural Arts Center, Whitewater, WI, November 18, 2011
- WYOU Pledge Drive, Madison, WI, December 9, 2010

The Organgrinders (notable performances)

- Marquette Area Blues Festival, Marquette, MI, September 7, 2015
- Marquette Area Blues Festival, Marquette, MI, August 31, 2013
- Waukesha BluesFest, Waukesha, WI, August 11, 2012

Sympathy Swimmers (guitar and laptop, with Jeff Herriott, Ben Willis, and Anna Weisling)

- Canterbury House, Ann Arbor, MI, March 16, 2013
- Bryant Lake Bowl, Minneapolis, MN, April 28, 2011
- Project Lodge, Madison, WI, April 29, 2011

Other (guitar, percussion, and laptop)

- Root Signals (with Nick Hwang), Georgia Southern University, February 22, 2019
- Ronan School of Music, EABD After Hours (with Nick Hwang), Jacksonville, FL, November 10, 2018
- Endangered Wise Man Studios, EABD After Hours (with Nick Hwang), Jacksonville, FL, February 10, 2018
- Eyeclopes Studios, EABD After Hours (with Anna Weisling and Ben Willis), Fredericksburg, VA, November 12, 2016
- Sleepwalks and TeleConundrum on WYOU (with various), Madison, WI, 2008-2011
- Project Lodge (opening set with Jeff Herriott and Anna Weisling), Madison, WI, July 18, 2010
- Project Lodge (full concert with Jeff Herriott, Eric Allin, Anna Weisling, and The Weather Duo), Madison, WI, December 3, 2009
- Po' Monkeys (with Jeff Herriott, as part of Electroacoustic Juke Joint), Merigold, MS, November 14, 2009
- Merce Cunningham: In Memoriam (with Jeff Herriott, Matt Sintchak, Eric Allin, Heidi Johnson, and dancer Brittany Wittman), Starlight Cinema, Madison, WI, November 5, 2009
- Gallery Night with WYOU at Dance Fabulous (with Jeff Herriott and Eric Allin), Madison, WI, May 1, 2009
- Po' Monkeys (with Jeff Herriott, Trevor Saint, and others, as part of Electroacoustic Juke Joint), Merigold, MS, November 14, 2008

RECORDINGS

Bell Monks Untitled LP | forthcoming (early 2020)

Composer, engineer, mixing, performer (guitar, bass, percussion)

Dragged Across Concrete Feature Film Original Soundtrack | 2018

Engineer (bass only), performer (bass)

Brawl in Cell Block 99 Feature Film Original Soundtrack | 2017

Engineer (bass only), performer (bass)

Bell Monks and Gregory Taylor Brocades + Palimpsests full-length album | 2016

Composer, engineer, performer (guitar)

The Organgrinders Two Monkeys EP | 2016

Composer, engineer, mixing, performer (bass)

Bell Monks Big Bay EP | 2016

Composer, engineer, mixing, performer (guitar, bass, percussion)

The Organgrinders One Monkey EP | 2014

Composer, engineer, performer (bass)

Bell Monks vs. S.K. Pierce A Better Light split EP | 2013

Composer, producer, engineer, mixing, performer (guitar, bass percussion)

Pat J. Peterson Long Road full-length album | 2013

Performer (bass)

Bell Monks Let the Waves Carry Us full-length album | 2012

Composer, engineer, mixing, performer (guitar, bass)

The Organgrinders Paddy Waggin' full-length album | 2012

Composer, engineer, performer (guitar, bass)

Terry Murphy Taverns n' Taps full-length album | 2012

Producer, engineer, performer (bass, percussion)

Bell Monks Lullabies full-length album | 2010

Composer, engineer, mixing, performer (guitar, bass, percussion)

MEDIA COVERAGE

- Bell Monks Big Bay mentioned in Tone Madison's "More of our favorite Madison music of 2016," December 13, 2016, <https://www.tonemadison.com/articles/more-of-our-favorite-madison-music-of-2016>
- Bell Monks and Gregory Taylor Brocades + Palimpsests featured in Tone Madison's "The top 20 Madison records of 2016," December 12, 2016, <https://www.tonemadison.com/articles/the-top-20-madison-records-of-2016>
- Metal Mirror featured on Cycling 74 Community Projects page, Spring 2014, <http://cycling74.com/project/metal-mirror>
- Bell Monks Let the Waves Carry Us featured in 77 Square's "Best of 2012: Local music scene went to extremes this year," December 26, 2012, http://host.madison.com/entertainment/music/best-of-local-music-scene-went-to-extremes-this-year/article_0933eb4e-5895-59cd-9a85-262db8cd37f4.html
- Arbor I-V featured in Third Coast Digest, May 2012, <http://thirdcoastdigest.com/2012/05/time-arts-continuum-at-walkers-point>
- Bell Monks Lullabies album review by NetMusic Life, January 22, 2011, <http://netlabellife.blogspot.com/2011/01/mam154-bell-monks-lullaby.html>

REFERENCES

Edgar Berdahl
Louisiana State University
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Mark Snyder
Jacksonville University
msnyder3@ju.edu | 540-479-9549

Jeff Herriott
University of Wisconsin-Whitewater
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