

# Tate Carson

BM, MM, MFA, PhD

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## Areas of Interest

New Interfaces for Musical Expression • Human-Computer Interaction • Mobile Music • Web Audio

## Education

- 2021 PhD, Experimental Music and Digital Media, Louisiana State University.  
Teaching Assistant, Digital Design and Emergent Media.  
Dissertation: *Using Distributed Technology to Make Music in the Time of the Attention Economy.*
- 2017 MFA in Electronic Music and Recording Media, Mills College.  
Technical Assistant, Center for Contemporary Music.
- 2011 MM in Jazz Studies, University of New Orleans.
- 2009 BM in Music Industry Studies/Jazz Bass Concentration, Loyola University New Orleans.

## Publications

### JOURNAL ARTICLES

- 2020 Carson, T. (2020). "On EcoComposition." *Journal of Digital Media & Interaction* 3, no. 5. pp. 133-142.

### PEER-REVIEWED CONFERENCE PAPERS

- 2021 Carson, T. (2021). "immaterial.cloud: Using peer-to-peer technologies for music." In *Proceedings of the Web Audio Conference*. Barcelona, Spain.
- 2020 Marasco, A., Carson, T., Bardin, M. (2020). "Designing Collaborative and Mediated Experiences with Networked Circuit-Bent Devices." In *Proceedings of the Sound, Image and Interaction Design Symposium*. Online.
- 2019 Carson, T. (2019). "Sounds Aware: A Mobile App for Raising Awareness of Environmental Sound." In *Proceedings of the Web Audio Conference*. Trondheim, Norway.  
Carson, T. (2019). "Mesh Garden: A Creative-Based Musical Game for Participatory Musical Performance." In *Proceedings of New Interfaces for Musical Expression*. Porto Alegre, Brazil.  
Carson, T. (2019). "Systems Thinking and Environmental Interaction in the Work of Tomás Saraçeno and David Dunn." In *Proceedings of International Computer Music Conference*. New York, New York.

- 2018 Carson, T. (2018). "A More Perfect Union: Composition with Audience-Controlled Smartphone Speaker Array and Evolutionary Computer Music." *Web Audio Conference*. Berlin, Germany.  
Carson, T. (2018). "Philosophical Underpinnings of Environmental Music." In *Proceedings of International Computer Music Conference*. Daegu, Korea.

## Poster Presentations, Demos, and Workshops

### POSTER PRESENTATIONS

- 2019 "Mesh Garden: A creative-based musical game for participatory musical performance," New Interfaces for Music Expression, Universidade Federal do Rio Grande do Sul; Porto Alegre, Brazil. June 5, 2019.  
2018 "A more perfect union: Composition with audience-controlled smartphone speaker array and evolutionary computer music," Web Audio Conference, Technical University of Berlin; Berlin, Germany. September 19, 2018.

### DEMOS

- 2019 "A more perfect union: Composition with audience-controlled smartphone speaker array and evolutionary computer music," Web Audio Conference, Technical University of Berlin; Berlin, Germany. December 4-6, 2019.

### WORKSHOPS

- 2018 "Utilizing NexusHUB and Docker for Distributed Performance," Web Audio Conference, Technical University of Berlin; Berlin, Germany, September 21, 2018.  
"NexusHUB Distributed Performance Workshop." Co-presenter, New Interfaces for Musical Expression, Virginia Tech, June 3-6, 2018.

## Awards

- 2016 2<sup>nd</sup> Place in Musicworks' 2016 Electronic Music Composition Contest for *Before, I wandered as a diversion*.

## Teaching

### LOUISIANA STATE UNIVERSITY

- 2018–2020 CSC 2463 – Programming Digital Media, Instructor, Louisiana State University, Baton Rouge, LA.  
2020 MUS 4744 – Mobile Music, Teaching Assistant, Louisiana State University, Baton Rouge, LA.

### LIBERTY MAGNET HIGH SCHOOL (FORMERLY KNOWN AS LEE MAGNET HIGH SCHOOL)

- 2019–present Coding for the Web, Liberty Magnet High School, Baton Rouge, LA.  
2018, Introduction to Computational Thinking, Liberty Magnet High School, Baton Rouge, LA.  
2020–present  
2018 CSC 2463 – Programming Digital Media, Liberty Magnet High School, Baton Rouge, LA.

## OTHER

- 2020–present Futures Fund, Online Content Creator, Coding for the Web.
- 2019–present Futures Fund, Instructor, Coding for the Web, Baton Rouge, LA.
- 2015 Contemporary Arts Center, Teaching Artist, Summer Arts Camp, New Orleans, LA.
- 2012 Instructor, Private Bass Lessons, New Orleans, LA.
- 2011 Instructor, Jazz Combo, University of New Orleans.

## Technical Work

### CODE

- 2020 – present NexusUI: Web Audio Interfaces – developer and maintainer <https://github.com/nexus-js/ui>.
- January 2020 Chris Janney, Exploring the Hidden Music: LASM, Max Patch, Louisiana Art and Science Museum.

### TECHNOLOGY DEVELOPED FOR PERSONAL WORKS

**Distributed Smartphone Speaker Array:** A system of networked smartphones that allows users to create a distributed speaker system for a collective musical composition.

**Used in:** *immaterial.cloud*, *Mesh Garden*, *A More Perfect Union*, and *And the water receded*.

## Creative Work

### INTERACTIVE WEB AUDIO INSTALLATIONS

- 2020 *immaterial.cloud*, Interactive installation with Distributed Smartphone Speaker Array.
- 2019 *Sounds Aware*, Smartphone app that creates music from sensing the environment.
- 2018 *Mesh Garden*, Creative-based musical game with Distributed Smartphone Speaker Array.
- 2017 *A More Perfect Union*, Distributed Smartphone Speaker Array.

### COMPOSITIONS

- 2017 *I only went out for a walk*, Violin and Electronics
- And the waters returned*, Eight Players and Electronics
- And the water receded*, Cello, Violin, Bass Clarinet, Electronics
- 2016 *Twin highways flung across the evening*, Live Electronics and 8 Channel Spatialization
- Shifting Migration Pt 2*, Fixed Media
- Before, I wandered as a diversion*, Clarinet and Live Electronics
- Entangled Spaces*, Networked Laptop Duo
- Four Petals*, Chamber Ensemble and Live Electronics
- Lamella*, Live Electronics and Music Box
- The Laptop as Dwelling*, Live Electronics and Computer Sounds
- Simplexity*, Live Electronics
- A Quiet Desert Future*, Fixed Media
- Shifting Migration*, Fixed Media
- 2015 *ᏍᏈᏁᏁ*, Live Electronics and Pipa
- Recursion*, Graphic Score for Improvising Ensemble
- Microstasis*, Fixed Media
- Diminishing Pt 2*, Chamber Ensemble

*Synechdoche*, Fixed Media  
Score for *Si*, a short film by Sam Smith  
Score for Milliman corporate video, School of Thought advertising agency, San Francisco, CA

## Selected Performances

### INSTALLATIONS

- 2020 *immaterial.cloud*, New Interfaces for Musical Expression, online at <https://nime2020.bcu.ac.uk/>, July 21-25, 2020.  
*immaterial.cloud*, Network Music Festival, online at <https://networkmusicfestival.org/>, July 15-18, 2020.
- 2019 *A more perfect union*, National Student Electronic Music Event, University of Virginia, February 8-9, 2019.
- 2018 *A more perfect union*, Web Audio Conference, Technical University of Berlin; Berlin, Germany, September 20, 2018.

### ELECTRONIC MUSIC

- 2019 *And the water receded*, International Computer Music Conference and New York Electroacoustic Music Festival; Hebrew Union College; New York, New York, June 16-23, 2019.
- 2018 *And the water receded*, New Music on the Bayou, Ruston Artisans; Ruston, Louisiana; May 31, 2018.  
*Twin highways flung across the evening*, National Student Electronic Music Event, MEIT, University of North Texas, March 10, 2018.  
*A More Perfect Union*, LSU Museum of Art, March 4, 2018.  
*Twin highways flung across the evening*, Electro Acoustic Barn Dance, Terry Concert Hall, Jacksonville University, February 10, 2018.  
*A More Perfect Union*, Surreal Salon Soiree, Baton Rouge Gallery, January 27, 2018.
- 2017 *A More Perfect Union*, Louisiana State University School of Music Recital Hall, November 27, 2017.  
*A More Perfect Union*, Louisiana State University School of Music Recital Hall, November 6, 2017.  
*Shifting Migration Pt 2*, Fixed Media, Electric LaTex, Digital Media Center Theatre, Louisiana State University, October 2017.  
*Pseudo Pseudo*, music for dance, choreography by Stephanie Hewett, Lisser Hall, Mills College, April 14, 2017.  
*Shifting Migration Pt 2*, Fixed Media, California Electronic Music Exchange Concert – UCSB, April 5, 2017.  
*And the Water Receded*, Cello, Violin, Bass Clarinet Electronics, Signal Flow, Littlefield Concert Hall, Mills College, March 12, 2017.
- 2016 *I only went out for a walk*, Violin and Electronics, Center for New Music, San Francisco, Dec 7, 2016.  
*And the waters returned*, Littlefield Concert Hall, Mills College November 3, 2016.  
*Twin highways flung across the evening*, Lisser Hall, Mills College, October 28, 2016.  
*Entangled Spaces*, Littlefield Hall, Mills College, May 4, 2016.  
*Laptop As Dwelling*, California Electronic Music Exchange Concert – UCSD, April 22, 2016.  
*Lamellae*, Center for New Music, San Francisco, April 14, 2016.  
*Laptop As Dwelling*, California Electronic Music Exchange Concert – CalArts, April 5, 2016.
- 2015 *Şwärm*, Littlefield Hall, Mills College, December 2, 2015.

COMPOSITIONS PERFORMED BY MILLS COLLEGE CONTEMPORARY PERFORMANCE ENSEMBLE AND IMPROVISATION WORKSHOP

- 2016 *Four Petals*, Littlefield Hall, Mills College, April 27, 2016
- 2015 *Recursion*, Littlefield Hall, Mills College, November 20, 2015
- Diminishing Pt 2*, Littlefield Hall, Mills College, November 18, 2015

SELECT PERFORMANCES OF CREATIVE IMPROVISATION COMPOSITIONS (NEW ORLEANS, LA)

- 2015 Solo Bass and Electronics, Blue Nile, Open Ears Music Series, April 21, 2015
- Ablebody, Union Station, April 15, 2015
- 2014 Ablebody, Blue Nile, July 15, 2014
- Ablebody, Gasa Gasa, June 4, 2014
- Ablebody, Hi Ho Lounge, January 25, 2014
- 2013 Ablebody, Blue Nile, Open Ears Music Series, December 10, 2013
- Ablebody, Gasa Gasa, October 30, 2013
- Numbers Stations, Blue Nile, Open Ears Music Series, March 28, 2013
- Tate Carson Quintet, Maison, January 9, 2013
- Tate Carson Quintet, Zeitgeist Multi-Disciplinary Arts Center, January 1, 2013
- 2012 Tate Carson Quintet, Café Istanbul, December 18, 2012
- Tate Carson Quintet, Blue Nile, Open Ears Music Series, July 17, 2012
- Carbon Trio, Allways Lounge, July 6, 2012
- Tate Carson Quintet, Zeitgeist Multi-Disciplinary Arts Center, April 4, 2012
- Tate Carson Quintet, Allways Lounge, March 14, 2012

JAZZ ENSEMBLES

- 2009-2015 Moonshine and Caroline
- 2012-2014 The Messy Cookers Jazz Band
- 2012-2014 Tate Carson Quintet
- 2013 Carbon Trio

ORCHESTRAL ENSEMBLES

- 2013-2015 New Orleans Volunteer Orchestra
- 2010 New Orleans Civic Symphony

## Discography

- 2015 Ablebody, I
- 2013 The Messy Cookers Jazz Band, *Swing That Music*
- 2012 Tate Carson Quintet, *Walking Like I Was Already Asleep*

## Broadcasts

- 2014 WWL TV, live performance with The Messy Cookers Jazz Band
- 2014 WGNO TV, "News with a Twist," live performance with The Messy Cookers Jazz Band
- 2013 WWOZ Radio, Pledge Drive, live performance with Tate Carson Quintet

## Professional Activities

### PROFESSIONAL ORGANIZATION MEMBER

*International Computer Music Association (ICMA)*

*Society for Electro-Acoustic Music in the United States (SEAMUS)*

### CONFERENCE REVIEWER

- 2019 International Computer Music Conference and New York Electroacoustic Music Festival; New York University; New York, New York.

## Skills

### COMPUTER SKILLS

Programming: JavaScript, Max, SuperCollider, Processing, Python, LilyPond, GUIDO music notation, OpenMusic.

Music and audio apps: Ableton Live, Logic, Pro Tools, Reaper, Wekinator.