Tate Carson

BM, MM, MFA, PʜD

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Areas of Interest

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

Education

2021   PʜD, 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

Jᴏᴜʀɴᴀʟ Aʀᴛɪᴄʟᴇs

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

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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 *Preceedings 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 Saraceno 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   2nd Place in Musicworks' 2016 Electronic Music Composition Contest for *Before, I wandered as a diversion.*

Teaching

Dakota State University

2021-present   Basic Musicianship II
Audio Production I
Audio Production II
Audio Production III
Recording Sessions
Digital Soundtrack Production
Advanced Digital Sound Design
Special Topics: History of Recorded Music
Special Topics: Programming for Sound Design
Special Topics: Sound Forensics
Undergraduate Research/Scholarship

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)

2019–2020   Coding for the Web, Liberty Magnet High School, Baton Rouge, LA.
2018, 2020   Introduction to Computational Thinking, Liberty Magnet High School, Baton Rouge, LA.

2018   CSC 2463 – Programming Digital Media, Liberty Magnet High School, Baton Rouge, LA.

Other

2020   Futures Fund, Online Content Creator, Coding for the Web.
2019–2020   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 *Ṣw̓ǎṙ m̓* , 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 *Ṣ̣ẅ̇ä̇r̊m̊*, 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.