

Tate Carson

Curriculum Vitae

Digital Arts and Design Program
College of Arts and Sciences
Dakota State University
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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, Electronic Music and Recording Media, Mills College.
Technical Assistant, Center for Contemporary Music.
- 2011 MM, Jazz Studies, University of New Orleans.
- 2009 BM, Music Industry Studies/Jazz Bass Concentration, Loyola University New Orleans.

Professional Appointments

- 2021–present ASSISTANT PROFESSOR OF DIGITAL SOUND DESIGN, Digital Arts and Design Program, College of Arts and Sciences, Dakota State University.

Publications

JOURNAL ARTICLES

- 2020 Carson, Tate. 2020. “On Ecocomposition: An Interview with Damián Keller.” *Journal of Digital Media & Interaction* 3 (5): 133–42.

PEER-REVIEWED CONFERENCE PAPERS

- 2024 Carson, Tate, and Carter Gordon. 2024. "Resonant Landscapes." In *Audio Mostly 2024 - Explorations in Sonic Cultures*, 525–32. Milan Italy: ACM.
- 2021 Carson, Tate. 2021. "Immaterial.Cloud: Using Peer-to-Peer Technologies for Music." In *Proceedings of the Web Audio Conference*. Barcelona, Spain.
- 2020 Marasco, Anthony T, Tate Carson, and Matthew A Bardin. 2020. "Designing Collaborative and Mediated Experiences with Networked Circuit-Bent Devices." In *Proceedings of the Sound, Image and Interaction Design Symposium*. Online.
- 2019 Carson, Tate. 2019. "Sounds Aware: A Mobile App for Raising Awareness of Environmental Sound." In *Proceedings of the Web Audio Conference*. Trondheim, Norway.
- Carson, Tate. 2019. "Mesh Garden: A Creative-Based Musical Game for Participatory Musical Performance." In *Proceedings of the International Conference on New Interfaces for Musical Expression*, 339–42. Porto Alegre, Brazil.
- Carson, Tate. 2019. "Systems Thinking and Environmental Interaction in the Work of Tomás Saraceno and David Dunn." In *Proceedings of the International Computer Music Conference*. New York.
- 2018 Carson, Tate. 2018. "A More Perfect Union: Composition with Audience-Controlled Smartphone Speaker Array and Evolutionary Computer Music." In *Proceedings of the Web Audio Conference*. Berlin, Germany.
- Carson, Tate. 2018. "Philosophical Underpinnings of Environmental Music." In *Proceedings of the International Computer Music Conference*. Daegu, Korea.

Awards

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

Grants

- 2025–26 Faculty Research Initiative Grant, Dakota State University. Project: *Drift*.
- 2023–24 Faculty Research Initiative Grant, Dakota State University. Project: *Resonant Landscapes*.

Conference Activity

PAPERS PRESENTED

- 2024 "Resonant Landscapes." Audio Mostly 2024 - Explorations in Sonic Cultures, Milan, Italy, September 18-20, 2024.

- 2021 “Immaterial.Cloud: Using Peer-to-Peer Technologies for Music.” Web Audio Conference, Barcelona, Spain, July 21-25, 2021.
- 2019 “Sounds Aware: A Mobile App for Raising Awareness of Environmental Sound.” Web Audio Conference, Trondheim, Norway, December 15-17, 2019.
 “Mesh Garden: A Creative-Based Musical Game for Participatory Musical Performance.” International Conference on New Interfaces for Musical Expression, Porto Alegre, Brazil, June 3-7, 2019.
 “Systems Thinking and Environmental Interaction in the Work of Tomás Saraceno and David Dunn.” International Computer Music Conference, New York, June 16-22, 2019.
- 2018 “A More Perfect Union: Composition with Audience-Controlled Smartphone Speaker Array and Evolutionary Computer Music.” Web Audio Conference, Berlin, Germany, September 19-21, 2018.
 “Philosophical Underpinnings of Environmental Music.” International Computer Music Conference, Daegu, Korea, August 5-10, 2018.

TALKS

- 2025 “Water’s Sonic Signatures: Computational Sound Studies and Ecological Awareness in Tarkovsky’s Films.” Sound Studies and Experimental Practices Conference: Actions of Water Awareness, Stony Brook, New York.
- 2023 “Teaching Video Game Sound: Balancing Technical Know-How with Sonic Creativity.” ATMI/CMS National Conference, Miami, Florida.

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. September 21, 2018.

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.

Teaching Experience

DAKOTA STATE UNIVERSITY, MADISON, SD

Audio Production I (Fall 2021, Fall 2022, Fall 2023, Fall 2024, Fall 2025)
Audio Production II (Spring 2022, Spring 2023, Spring 2024, Spring 2025)
Audio Production III (Fall 2021, Fall 2022, Fall 2023, Fall 2024, Fall 2025)
Recording Sessions (Spring 2021, Spring 2022, Spring 2023, Spring 2024, Spring 2025)
Sound Design for Film (Fall 2021, Fall 2022, Fall 2023, Fall 2024)
Sound Design for Games (Spring 2022, Spring 2023, Spring 2024, Fall 2025)
Basic Musicianship II (Spring 2023, Spring 2024, Spring 2025)
Undergraduate Research/Scholarship (2021-present)
Music Appreciation (Fall 2024, Fall 2025)
Special Topics: AI Music (Spring 2025)
Special Topics: History of Recorded Music (Fall 2023)
Special Topics: Programming for Sound Design (Fall 2022)
Special Topics: Sound Forensics (Fall 2022)

LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA

CSC 2463 – Programming Digital Media, Instructor (Spring 2018, Spring 2019, Spring 2020)
MUS 4744 – Mobile Music, Teaching Assistant (Fall 2020)

LIBERTY MAGNET HIGH SCHOOL (FORMERLY KNOWN AS LEE MAGNET HIGH SCHOOL),
BATON ROUGE, LA

Coding for the Web (Fall 2019, Spring 2020)
Introduction to Computational Thinking (Fall 2018, Spring 2020)
CSC 2463 – Programming Digital Media (Fall 2018)

OTHER

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

Creative Work

INTERACTIVE WEB AUDIO INSTALLATIONS

- 2024 *Resonant Landscapes*, Web-based application that integrates ambisonics and GPS technology to overlay immersive soundscapes of South Dakota state parks onto an urban environment.
- 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

- 2024 *Veins of the Earth*, Fixed Media
- 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 *Şwårñ*, 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
- 2012 *Green*, Tate Carson Quintet (Jazz Quintet)
- We Tend Not To Think About It Because We Tend Not To Know About It*, Tate Carson Quintet (Jazz Quintet)

And Then It Hit Me, Tate Carson Quintet (Jazz Quintet)
Something Else Is Needed, Tate Carson Quintet (Jazz Quintet)
Even Dogs Get OCD, Tate Carson Quintet (Jazz Quintet)
Receptacles of Forgetting, Tate Carson Quintet (Jazz Quintet)
A Short History Interrupted, Tate Carson Quintet (Jazz Quintet)

Selected Installations and Performances

INSTALLATIONS

- 2024 *Resonant Landscapes*, Audio Mostly, Milan, Italy, September 18-20, 2024.
- 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 PERFORMANCES

- 2025 *Veins of the Earth*, New York City Electroacoustic Music Festival, New York, New York, June 22, 2025.
- 2024 *Veins of the Earth*, *Resonant Landscapes* concert, The Brick House, Madison, South Dakota, March 26, 2024.
- 2019 *And the water receded*, International Computer Music Conference and New York City 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, Lissner Hall, Mills College, April 14, 2017.
- Shifting Migration Pt 2*, Fixed Media, California Electronic Music Exchange Concert – University of California Santa Barbara, 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*, Lissner Hall, Mills College, October 28, 2016.
- Entangled Spaces*, Littlefield Hall, Mills College, May 4, 2016.
- Laptop As Dwelling*, California Electronic Music Exchange Concert – University of California San Diego, 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 *Swärm*, Littlefield Hall, Mills College, December 2, 2015.

Service and Administrative Roles

- 2022–present *Internship Coordinator, Digital Arts and Design Program*, Dakota State University.
I serve as the Internship Coordinator, connecting students with relevant, career-focused opportunities.
- 2022–present *Faculty Advisor, DSU Live Student Club*, Dakota State University.
I advise the student club DSU Live, manage paperwork for student compensation, and report on General Activity Fee (GAF) spending to the GAF Committee.
- 2024–present *Member, Curriculum Committee*, Dakota State University.
I review and evaluate course and program proposals to ensure curricular quality, coherence, and alignment with institutional standards.
- 2024–present *Member, Human–Computer Interaction Major Steering Committee*, Dakota State University.
Collaborating with faculty from Arts & Sciences and Computer Science to design and implement an interdisciplinary undergraduate degree in Human–Computer Interaction, including curriculum planning, course design, and program outcomes.
- 2022–2024 *Member, Equity, Diversity, and Inclusion (EDI) Committee*, Dakota State University.
I worked with the EDI Committee to foster a more inclusive environment within the College of Arts and Sciences.
- 2021–2023 *Member, Implementation Council*, Dakota State University.
Participated in meetings and presentations on DSU’s strategic plan, contributing to discussions and gaining insights into university governance.

Media and Press Coverage

2024 “DSU Faculty, Students Turn the Sounds of SD State Parks into Music”

Madison Daily Leader, March 27, 2024

[Link to article](#)

Coverage of the public presentation of *Resonant Landscapes* at the Madison Area Arts Council’s Brick House venue.

2024 “Research Symposium Showcases Innovation, Creativity at DSU”

Madison Daily Leader, March 23, 2024

[Link to article](#)

Highlights from the DSU Research Symposium, where *Resonant Landscapes* was showcased as an interactive art installation.

2023 “Resonant Landscapes: DSU Researchers Make Music with Nature”

Dakota State University News, December 13, 2023

[Link to article](#)

Overview of *Resonant Landscapes*, highlighting the project’s experimental approach to field recording and its goal of engaging audiences with the natural soundscapes of South Dakota.

Professional Activities

CONFERENCE REVIEWER

2023–24 New Interfaces for Musical Expression

2019 International Computer Music Conference

Technical Work

CODE

2020–21 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, Baton Rouge, LA

Computer Skills

PROGRAMMING LANGUAGES AND TOOLS

Max, SuperCollider, JavaScript, C++, C# (Unity), Python, Chuck, Docker, Processing, OpenMusic, LilyPond, GUIDO music notation

MUSIC AND AUDIO APPLICATIONS

Reaper, Ableton Live, Audiokinetic Wwise, FMOD, Logic, Pro Tools, Sound Particles, iZotope RX, Adobe Audition, Audacity, Sonic Visualizer, Praat, Wekinator

Additional Performances

COMPOSITIONS PERFORMED BY MILLS COLLEGE CONTEMPORARY PERFORMANCE ENSEMBLE AND IMPROVISATION WORKSHOP (OAKLAND, CA)

- 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

Tate Carson, PhD

Curriculum Vitae

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New Orleans Volunteer Orchestra
2010 New Orleans Civic Symphony

Discography

2015 Ablebody, *Form Unfolding*
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