

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. ROLE: author, interviewer.

PEER-REVIEWED CONFERENCE PAPERS

Single-author publications are by me as sole author; roles in collaborative works are specified.

- 2024 Carson, Tate, and Carter Gordon. 2024. “Resonant Landscapes.” In *Audio Mostly 2024 - Explorations in Sonic Cultures*, 525–32. Milan Italy: ACM.
ROLE: author, project lead, recordist, system designer.
- 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.
ROLE: co-author, system designer.
- 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*; collaborative project with Tim Murray. \$5,000 project budget.
- 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

- 2026 Artist talk, *Resonant Landscapes*, Sound+ Installations opening reception, Susan Bergman Gurrentz '56 Art Gallery, Chatham University, Pittsburgh, Pennsylvania, October 8, 2026.
- DRIFT*, work-in-progress Faculty Research Initiative presentation, Dakota State University Research Week, March 26, 2026.
- 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, Spring 2026)
Audio Production III (Fall 2021, Fall 2022, Fall 2023, Fall 2024, Fall 2025)
Recording Sessions (Spring 2022, Spring 2023, Spring 2024, Spring 2025, Spring 2026)
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, Spring 2026)
Undergraduate Research/Scholarship (2021-present)
Music Appreciation (Fall 2024, Fall 2025)
Creative Coding: Live Coding Music (Fall 2026)
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 2021, Spring 2026)

SELECTED TEACHING INITIATIVES

- 2026 Developed a weekly cohort model for seven undergraduate research students, combining rotating progress presentations, peer critique, and short accountability check-ins.
Directed an authentic full-production studio workflow in Recording Sessions, with students rotating through performance and engineering roles and completing a class recording from tracking through final mix.
- 2025 Organized a virtual professional visit by Em Halberstadt of A Shell in the Pit for Sound Design for Games, connecting students’ FMOD work with professional game-audio practice.
Invited Peter Hoelsing to Music Appreciation for a participatory session on jazz, ritual, chant, and ethnomusicological fieldwork.

Organized a 23-person Music Appreciation trip to the South Dakota Symphony Orchestra, including group ticketing and student transportation.

Undergraduate Research and Mentoring

2025–26 Faculty mentor for three successful Student Mentored Research Initiative applications spanning game audio, film sound, and experimental spatial audio; all three projects received funding.

2026 Faculty supervisor for seven undergraduate research projects completed through a weekly cohort model and presented publicly through Research Week assessment or exhibition activities.

Faculty project director for two Digital Sound Design research internships: *Match-Lab* and *Beam Choreography*; four students participated.

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 AND KINETIC SOUND INSTALLATIONS

2025–present

- DRIFT*, collaborative kinetic sound installation with Tim Murray. Three-sculpture gallery installation in development. ROLE: co-creator, sound designer, programmer.
- 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

Sole composer and system designer

- 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 *Şwǎrm*, 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

- 2026 *Resonant Landscapes*, Sound+ Installations, Susan Bergman Gurrentz '56 Art Gallery, Chatham University, Pittsburgh, Pennsylvania, Fall 2026.
- 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 *Şwärm*, 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, Undergraduate Curriculum Committee*, Dakota State University.
 I review and evaluate course and program proposals to ensure curricular quality, coherence, and alignment with institutional standards.
- 2025–26 *Member, Ad Hoc Faculty Search Committee*, Dakota State University.
 I reviewed applications and conducted interviews for an expedited adjunct faculty hire.
- 2025–26 *Member, Human–Computer Interaction Degree Development Committee*, Dakota State University.
 Contributed design and UX expertise to curriculum planning, course selection and development, program outcomes, and final review; represented Arts & Sciences during Curriculum Committee consideration of the proposal.
- 2025–26 *Digital Sound Design Lead and Technical Curator, DAD@MAAC Student Exhibitions*,

Madison Area Arts Council.

Recruited and advised student exhibitors, reviewed sound and audiovisual work, and coordinated public playback, film, game, and live-DJ presentation systems for two exhibitions; the spring event drew approximately 70 attendees.

2026 *Recording Facilities Development, Digital Sound Design*, Dakota State University.

Secured approval and coordinated procurement and compatibility review for a matched pair of Austrian Audio CC8 microphones and a Rycote ORTF windshield system supporting stereo, field, and film-sound production.

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

GRANT PANEL SERVICE

2026 South Dakota Arts Council Grant Panelist, General Operating Expenses for Organizations; reviewed and discussed organizational grant applications with the

panel.

JURY SERVICE

- 2026 Juror, Digital Sound Design category, DSU Research Week Student Juried Exhibition.
- Juror, High School Songwriting Competition, Dakota State University Digital Design and Content Creation Day.

CONFERENCE REVIEWER

- 2022, 2024 New Interfaces for Musical Expression
- 2019 International Computer Music Conference

Technical Work

CODE

- 2026 Audio Opportunities Directory—researcher, designer, and developer. Searchable career-planning resource organizing 261 prospective employers across 29 audio sectors and 39 graduate programs. audio-opportunities.netlify.app.
- 2026 *MatchLab*, faculty project lead and client. Developed the proposal and prior user/workflow research for a sound-design asset-matching application accepted as a Fall 2026 CSC 470 Software Engineering project following technical feasibility review.
- 2025–present *DRIFT* control and audio software—designer and developer. Built and tested the browser-based authoring, synchronization, and motion-control systems for a collaborative kinetic sound installation. drift-noise-demo.netlify.app.
- 2020–21 NexusUI: Web Audio Interfaces – developer and maintainer <https://github.com/nexus-js/ui>
- 2017–21 LSU STEM Pathways Certification Websites – designer and developer
Designed and developed multiple curriculum distribution websites for Louisiana high schools teaching LSU STEM certification pathways. Sites remain in active use.
- 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, MuseScore, Sound Particles, iZotope RX, Adobe Audition, Adobe Premiere Pro, 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 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