

Courtney Douglass Brown

<http://www.courtney-brown.net>

browncd@smu.edu

ACADEMIC POSITION

2017- Assistant Professor, Center for Creative Computation
Southern Methodist University, Dallas, TX

EDUCATION

- 2017 DMA, Interdisciplinary Digital Media and Performance
Arizona State University, Tempe, AZ
Dissertation: *Interactive Tango Milonga*: An exploration of the experience of connection via an interactive system giving tango dancers agency over music in the social dance context
Committee: Garth Paine (Chair), Sabine Feisst, Pavan Turaga
- 2008 MA, Electroacoustic Music
Dartmouth College, Hanover, NH
Thesis: *The Aesthetics of Losing Control*: A phenomenological investigation of fractured modes of embodied experience through musical interfaces designed to cause performer failure
Committee: Newton Armstrong (Chair), Larry Polansky, Michael Casey
- 2002 BS, Magna Cum Laude, Music and Computer Science
Loyola University, New Orleans, LA

GRANTS, AWARDS, RESIDENCIES

International and National Grants, Honors, and Awards

- 2015 Prix Ars Electronica, Honorary Mention in Digital Musics & Sound Art
for *Rawr! A Study in Sonic Skulls*
International Computer Music Conference (ICMC) 2015 Best Student Music Submission Award
for *How to Speak Dinosaur: Courtship*
- 2014 2013-14 Fulbright US Student Award: Buenos Aires,
for *Interactive Tango Milonga*
Love of Learning Grant, Phi Kappa Phi
New Music USA Grant, collaborator composer for Meehan/Perkins Duo Submission
- 2009 Associate Artist with Mark Applebaum, Atlantic Center for the Arts, New Smyrna Beach, FL
ASCAP Foundation Morton Gould Young Composer Awards, finalist
for *losing love in magnetic time*
- 1998 National Merit finalist

Selected University Grants, Honors, and Awards

- 2016 ASU, 2016-17 Dissertation Fellowship
- 2015 ASU, PAVE Arts Venture Incubator Seed Funding
ASU, Student Enrichment Grant
- 2011 ASU, School of Music, Special Talent Award
- 2008 Dartmouth College Graduate Fellowship, (2006–8)
- 2002 Outstanding Computer Science Major, Loyola University New Orleans

PERFORMANCES AND EXHIBITIONS

Juried and Peer-reviewed Performances

- 2019 International Conference on Tangible, Embedded, and Embodied Interactions (TEI)
Tempe Center of the Arts, Arizona State University, Tempe, AZ
Machine Tango, with Brent Brimhall, Argentine tango dancer
- 2018 Electronic Music Midwest Festival (EMM) 2018, Lewis University, Illinois
Puente: A Study in Interactive Tango Dance, with Brent Brimhall, Argentine tango dancer
- International Computer Music Conference (ICMC) 2018, Daegu, Korea
Puente: A Study in Interactive Tango Dance, with Brent Brimhall, Argentine tango dancer
- International Conference on Movement and Computing (MOCO) 2018
Casa Paganini - Infomus, DIBRIS, University of Genoa, Italy
Puente: A Study in Interactive Tango Dance, with Brent Brimhall, Argentine tango dancer
Interactive Tango Milonga Demonstration as social dance installation
- Itinerant Performance Art Festival NYC, New York, NY
Puente: A Study in Interactive Tango Dance, with Brent Brimhall, Argentine tango dancer
- 2016 International Conference on Live Interfaces (ICLI) 2016, University of Sussex, UK
Interactive Tango Milonga: Fragments, with Brent Brimhall, Argentine tango dancer
- Society for Electroacoustic Music in the US (SEAMUS) Conference, 2016, USG, Georgia
Electroacoustic Improvisation with gbjck trio (*Rawr!*, Justin Kennedy, voice, Garrett Johnson, cello)
- 2015 International Computer Music Conference (ICMC) 2015, UNT, Denton, TX
How to Speak Dinosaur: Courtship, with David Earll, tuba
- 2009 New York Electroacoustic Music Festival, City University of New York
losing love in magnetic time, CUNY Percussion Studio
- Vox Novus 60X60 Project, International and Evolution mixes, 2008, Order of Magnitude Mix, 2010
Places in Time become Magnetic
- 2008 SEAMUS Conference, Salt Lake City, UT
Pop Presto No. 2

Juried and Peer-reviewed Group Exhibitions and Installations

- 2018 New Interfaces for Musical Expression Conference (NIME), Blacksburg, VA
Interactive Tango Milonga as social dance installation (Curated/Juried Workshop)
- 2015 Ars Electronica Festival, CyberArts 2015, Linz, Austria
Rawr! A Study in Sonic Skulls and Improvisational Performance, Sept. 5
- New York City Electroacoustic Music Festival, New York, NY
Blown Away, contact microphones and interactive video
- 2014 New Interfaces for Musical Expression (NIME) / BEAM Festival, London, UK
Rawr! A Study in Sonic Skulls

Invited Performances

- 2016 International Tuba Euphonium Conference, University of Tenn., Knoxville, TN
How to Speak Dinosaur: Courtship, with David Earll, tuba
- Frequency Festival, Constellation, Chicago, IL
losing love in magnetic time, performed by Meehan/Perkins Duo
- 2015 Third Practice Festival, Richmond, VA
How to Speak Dinosaur: Courtship, with David Earll, tuba
- SSOO Festival, Flagstaff, AZ
Interactive Tango Milonga, as performance, with Brent Brimhall, Argentine tango dancer
- 2011 Gowanus Wildlife Preserve Showcase, Spoke the Hub, Brooklyn, NY
Abacus for the Body

- 2010 VCW Performance, Diapason Gallery, Sep. 16, 2010, Brooklyn, NY
I'll huff and puff and I'll blow your house down!, with Gennette Gill, Jacqueline Arias
 Provocative Objects, Patricia Doran Gallery, Boston, MA
Volcadas con Silla
- 2009 Juddertone Dance 2009, Boston University Theater, Boston, MA
Crowded, with Nu Dance Theater
 INsideOUT, Atlantic Center for the Arts, New Smyrna Beach, FL
Balancing Act
 The Murder Cabaret, The Tank, 45 Street Theater, New York, NY
Every Night I Lose Control

Invited Group Exhibitions and Installations

- 2017 *Re-Embodied*, Telfair Museums, Jepson Center, Savannah, GA
Rawr! A Study in Sonic Skulls
- 2016 Resonant Structures, Inter-space Gallery, Feb. 19-Mar. 5, 2016, New York, NY
Rawr! A Study in Sonic Skulls
 EarFest 2016, Resonant Structures, Zuccaire Gallery, Stony Brook University, NY
Rawr! A Study in Sonic Skulls
- 2015 Exhibiting Sound, University of Alberta, DC3 Art Projects Gallery, Edmonton, Alberta, CN
Rawr! A Study in Sonic Skulls

Selected Performances

- 2018 Collabo Show, SMU, Dallas, TX
Machine Tango, with Brent Brimhall, Argentine tango dancer
 Big Beat Down! Creative Computation Showcase, SMU, Dallas, TX
Puente: A Study in Interactive Tango Dance, with Brent Brimhall, Argentine tango dancer
- 2017 Pointe Ensemble Performance, Caruth Auditorium, SMU, Dallas, TX
 Solo and Group Improvisation with *Rawr!*
- 2016 IMM for IDD, Knights of Pythias Lounge, Tempe, AZ
Interactive Tango Milonga: Fragments, with Brent Brimhall, Argentine tango dancer
- 2015 Phoenix Art Museum, Phoenix, AZ
How to Speak Dinosaur: Courtship, with David Earll, tuba
- 2012 Modified Arts Gallery, Roosevelt Row, Feb-May, monthly, Phoenix, AZ
D&SPAIR Club Sonic and Movement Improvisation
 Katzin Recital Hall, School of Music, ASU, Tempe, AZ
Telephone Tango, performed by Laptop Orchestra of Arizona State
- 2011 Art in Motion, Apr. 15-17, 2011, Downtown Live, Jersey City, NJ
Art in Motion: The stories we are, performed by myself and Insurgo State Project
- 2010 Triskelion, Jun. 3-5, 2010, Brooklyn, NY
Crowded, with Nu Dance Theater, myself, live electronics/laptop, accordion, soprano voice
- 2009 *Every Night I Lose Control* tour, 2007-9
 Monkeytown, The Tank (NYC), The Red Room (Baltimore, MD), The NightLight (Chapel Hill, NC), Outpost 186, The Lilypad, CyberArts Festival (Boston, MA), Firehouse 13 (Providence, RI), McGuffey Art Center (Charlottesville, VA), Princeton University, Hartt School of Music, The Lighthouse (Washington, DC)

Selected Exhibitions and Installations

- 2016 Tango For All, Phoenix, AZ
Interactive Tango Milonga, as social dance installation for wheelchair tango
 El Abrazo Practica, Scottsdale, AZ
Interactive Tango Milonga, as social dance installation

- ASU Global Institute of Sustainability Tenth Anniversary Celebration, Tempe, AZ
Rawr! A Study in Sonic Skulls
- 2013 Cartographies, Solo Exhibition, Digital Culture Gallery, ASU, Tempe, AZ
Blown Away and In Transit
- Microtonal Music Festival, ASU, Tempe, AZ
lo atamos con alambre

PUBLICATIONS

Book Chapters (Peer-reviewed/Juried)

- Brown, C. & Paine, G. (2019, February) A Case Study in Collaborative Learning via Participatory Music Interactive Systems: Interactive Tango Milonga. In Holland, S., Wilkie, K., Mudd, T., Wanderley, M., McPherson, A. (Eds.), *New Directions in Music and Human-Computer Interaction*. London: Springer.

Conference Proceedings (Peer-reviewed/Juried)

- Brown, C. (2018). Interactive Tango Milonga: Designing DMIs for the Social Dance Context. *Proceedings of the 18th International Conference on New Interfaces for Musical Expression - NIME '18*, Blacksburg, VA, Virginia Tech.
- Brown, C., & Paine, G. (2015). Towards an Interactive Tango Milonga. *Proceedings of the 41st International Computer Music Conference - ICMC '15*, Denton, TX, University of North Texas.
- Brown, C., & Paine, G. (2015). Interactive Tango Milonga. *Proceedings of the 2nd International Workshop on Movement and Computing - MOCO '15*, Vancouver, British Columbia, Simon Fraser University, 17-20. doi:10.1145/2790994.2791013.
- Brown, C., Razzaque, S., & Paine, G. (2015). Rawr! Study in Sonic Skulls: Embodied Natural History. In *Proceedings of the International Conference on New Interfaces for Musical Expression – NIME '15*, Baton Rouge, LA, Louisiana State University, 5-10.

Workshop Papers (Peer-reviewed/Juried)

- Brown, C. & Paine, G. (2016). Digital Musical Instruments for Participatory Music: Designing Internal Experience. Music and HCI Workshop at ACM 33rd Human Factors in Computing Systems Conference 2016 (CHI 2016), San Jose, CA

Music Publications

- 2015 *How to Speak Dinosaur* included on ICMC 2015 DVD *Looking Back, Looking Forward*

TEACHING EXPERIENCE

Instructor

- 2017- Southern Methodist University, Dallas, TX, Center of Creative Computation
 CRCP 1310 Creative Coding I (Fall 2017)
 CRCP 3330 Artificial Intelligence and Creative Composition (Fall 2017, 2018)
 CRCP 1330 Sound and Code (Spring 2018, 2019)
 CRCP 3343 Contemporary Interactive Digital Performance (Spring 2018)
 CRCP 5350 Creative Motion Capture (Fall 2018)

Teaching Assistantships

- 2011-6 Arizona State University, Tempe, AZ School of Arts, Media, and Engineering
 AME 385/386/485 Collaborative Projects and Capstone (Fall 2015–Spring 2016)
 AME 230 Programming for Media Arts (Spring 2016)
 MDC 311 Composing and Performing for Hybrid Ensembles (Fall 2011–12, 2015)
 MDC 494/598 Advanced Interactive Sound (Spring 2015)
 MDC 211 Introduction to Digital Audio (Spring 2012–13)
- 2007 Dartmouth College, Hanover, NH, Electroacoustic Music Program

Music 3 Music and Technology, (Fall 2007)
 2002-3 University of North Carolina, Chapel Hill, NC, Department of Computer Science
 COMP 410 Data Structures, C++ (Spring 2003)
 COMP 110 Introduction to Programming, Java (Fall 2002)

Teaching Interests

Interactive Sound and New Musical Interfaces; Developing NIMEs for Participatory Music; Music, Movement, and Computing; Designing Experiential Systems; Music Cognition and Perception; Computer Vision and Motion Tracking; Laptop Ensembles; The Historical and Social Context of Argentine Tango; History of Electroacoustic and Interactive Music; Software Engineering for Interactive Systems; Digital Signal Processing for Sound Applications; Experimental Design for Assessing Media Systems; Physical Computing for Media Art Applications; Digital Sound and Recording; Designing for Participatory Music Applications; Coding for Visual Arts; Algorithmic Music; Interactive Dance; Music Composition; Experimental Sound and Movement Improvisation

PRESENTATIONS

Invited Talks and Guest Lectures

- 2017 "Rawr! A Study in Sonic Skulls", Artist Talk and Performance, PULSE Art + Technology Festival, Jepson Center, Telfair Museums, Savannah, GA
- 2016 "Interactive Tango Milonga", Poster Presentation and Demo, International Conference for Live Interfaces, University of Sussex, Brighton, UK
- 2015 "Rawr! A Study in Sonic Skulls", DE Shaw Research, Inc., New York, NY
- 2014 "Interactive Tango Milonga", Centro de Experimentación e Investigación en Artes Electrónicas, Universidad de Tres Febrero, Buenos Aires, Argentina

Workshops

- 2016 Wheelchair Tango Workshops and Practica, Tango for All, Tempe, AZ
- 2014 Experimental Sound and Movement Workshop, Buenos Aires (2014), Tempe, AZ (2015)
- 2011 Argentine Tango Workshop for Beginners, Roanoke, VA

PROFESSIONAL AUDIO AND SOFTWARE EXPERIENCE

- 2008-10 Audio Software Developer, New York, NY
Scratch DJ Academy, LLC.
- 2006-8 Audio Engineer, Audio Systems Researcher, Hanover, NH
Freelance, Clients include: The Response Network LLC, Dartmouth College Music Dept.
- 2003-6 Software Developer, Durham, NC
CogniSyst, Inc.

SELECTED MEDIA COVERAGE

- 2017 *Connect Savannah*, Savannah, GA, "How to Speak Dinosaur" R. Flora. Jan. 4, 2017. Cover story.
- 2016 *Quo*, Science and Technology Magazine and Website, Spain, "Tú hablas dino?" ("Do you speak dino?"). Feb. 18, 2016. <http://www.quo.es/ciencia/asi-hablarian-los-dinosaurios>
- 2015 *Centrum Druki 3D*, Polish 3D Printing website, "Druk 3D pozwolił odtworzyć dźwięki wydawane przez dinozaury." ("3D printing helped recreate the sounds made by dinosaurs"). L. Długosz. Nov. 20, 2015. <http://centrumdruku3d.pl/druk-3d-pozwolil-odtworzyc-dzwieki-wydawane-przez-dinozaury/>
3DPrint.com, 3D Printing website, "3D Printing (re)Produces 65 Million Year Old Mating Call". H. R. Mendoza. Nov. 19, 2015. <http://3dprint.com/106320/3d-printed-dino-skull-sound/>
Here and Now, National Public Radio, Boston, MA. "Recreating Dinosaur Sounds With A

- Musical Twist. A. Cline (Producer and Narrator), Nov. 6, 2015.
<http://hereandnow.wbur.org/2015/11/06/dinosaur-skull-instrument>
- Vue Weekly*, Edmonton, AB. “Exhibiting Sound expands the idea of gallery art.” P. Blinov. Oct. 15, 2015. <http://www.vueweekly.com/exhibiting-sound-expands-the-idea-of-gallery-art/>
- Rzeczpospolita*, Warsaw, Poland. “Ars Electronica – wizje i żarty.” (“Ars Electronica - Visions and Jokes”) M. Kuc. Sep. 9, 2015. <http://www4.rp.pl/Sztuka/309069924-Ars-Electronica--wizje-i-zarty.html>.
- Hispasonic, Fotograma Sonoro*. Spanish language computer music website. “Experimentación con el universo sonoro a través de ocho obras contemporáneas. (“Experimentation with the universe of sound through contemporary works”). M. Isaza. Aug. 8, 2015. <http://www.hispasonic.com/blogs/experimentacion-universo-sonoro-traves-ocho-obras-contemporaneas/40999>.

SELECTED ENSEMBLES

- 2018 Point (SMU Improvisation Ensemble), Kim Corbet, director
- 2015 gbjjck (Improvisational trio) <http://www.garrettlaroyjohnson/gbjjck>
 with Justin Kennedy, Garrett Johnson
- 2011–15 Laptop Orchestra of Arizona State (LORkAS) <http://lorkas.org>
- 2009-10 Woo ! Brown Duo (Improvisatory duo)
 with Justin Woo
- 2008 Electrocab (Mixed-genre composer collective)
 with Carmen Caruso, John Arroyo

ORGANIZATIONAL AND LEADERSHIP EXPERIENCE

- 2018 Co-Organizer, Dali Interactive, Meadows Museum, with Lane Harder, Rob Frank, SMU
- 2017- Producer/Organizer/Founder, Creative Computation Showcase (<http://c3smu.org>), SMU
- 2012-13 Director, Laptop Orchestra of Arizona State- LORkAS,
 President, sArts, Media, and Engineering Student Association, ASU
- 2012 Co-founder, co-curator, co-producer, Seven Ate Nine, 2012
 Series of monthly performances and tango milongas at Modified Arts Gallery, Phoenix, AZ
- 2008-9 Founder, Curator, Producer, Sidewalk Tzara
 A monthly experimental performance series at The Outpost, Cambridge, MA

ADDITIONAL SKILLS AND TRAINING

Selected Technical Skills

Languages: C/C++, Java, python, Smalltalk, Visual Basic, UML, SQL, Pascal/Delphi

Music Technologies: MAX/MSP, SuperCollider, Jamoma, OSC, LilyPond, CoreAudio, DirectX,
 OpenAL, STK, FMOD, RtAudio, IRCAM tools, VST API

Applications: Ableton Live, Max4Live, Apple Logic, Sibelius, Finale, Protools, Digital Performer, Adobe Creative Suite (Photoshop, Premiere, etc.), Matlab/Octave, XCode, Visual Studio

Physical Computing: AVR/micro-processor, Arduino, accelerometers, contact mics, servos, solenoids, FSRs, inertial sensors (eg. Shimmer3, x-osc)

Multimedia Libraries/Platforms: Cinder, Processing, OpenGL, JUCE

Motion Capture: OpenCV, OpenNI/Kinect, OptiTrack

Mobile Platforms: iOS, Android API

Web Technologies: HTML/CSS, JavaScript, Wordpress

Selected Argentine Tango Dance Experience

- 2017-8 Private and Group Lessons with George and Jairelbhi Furlong, Dallas, TX
- 2017 Veronica Vazquez y Damian Mechura Workshop, Z Room, Tempe, AZ

- 2016 Cristina Sosa & Daniel Nacucchio, Z Room, Tempe AZ
 Private and Group Lessons with Stephanie Berg and Nicholas Tapias, Tempe AZ
 Veronica Vazquez y Damian Mechura Workshop, Z Room, Tempe AZ
 Argentine Tango Workshop with Corina Herrera y Octavio Fernandez
 Tucson Tango Festival, Volunteer with ASU Tango Club, 2013, 2015
- 2015 Albuquerque Tango Festival, Volunteer with ASU Tango Club
 Macana Brothers, private lesson
- 2014 DNI Tango, Buenos Aires, private lessons
- 2013 Nick Jones and Diana Cruz Workshop, Triangle Tango Society, Durham, NC
 Mariano “Chico” Frumboli y Juana Sepulveda Workshop, ASU, 2013
- 2012 ASU Tango Festival
 Argentine Tango II with Daniela Borgialli, ASU
- 2008-11 Triangulo Tango Studio, New York City, classes
- 2008 Pablo Veron Workshop, Boston Tango Society

Instrumental and Movement Skills

Soprano (Expert), Guitar (Proficient), Piano Accordion (Proficient), Post-Contemporary Modern Dance, Contact Improvisation

MUSICAL AND INTERACTIVE WORK

Projects

Caw! A Journey in Sonic Skulls (2019, Upcoming)

Collaboration with Ira Greenberg and Sharif Razzaque

Installation and Musical Instrument allowing users to give voice to the descendent of a crow which has evolved in a post-apocalyptic world millions of years after the end of humanity

Interactive Tango Milonga (ITM) (2013–present)

Documentation and Portfolio: <http://www.courtney-brown.net/?p=24>

Argentine tango dancers are given agency over music in real-time in a social dance context.

Rawr! A Study in Sonic Skulls (2011–2016)

Collaboration with Sharif Razzaque, co-engineer

Documentation and Portfolio: <http://www.courtney-brown.net/?p=21>

Installation and Musical Instrument allowing users to give voice to an extinct dinosaur.

Selected Compositions

- 2018 *Machine Tango* for Argentine tango dance couple and interactive tango system
Puente: A Study in Interactive Tango for Argentine tango dance couple in ITM system
- 2015 *pretending in magnetic time* for bassoon, marimba, and fixed media
- 2013 *How to Speak Dinosaur: Courtship* for hadrosaur skull instrument, tuba, and fixed media
- 2011 *Telephone Tango* for laptop orchestra
 Collaboration with Ryan Spicer, co-software developer
Abacus for the Body for percussive bicycle robot
 Mounted amplified bicycle wheels controlled by solenoids and OSC
 Installation and improvisation with voice and accordion
- 2010 *Volcadas con Silla* (“tips over with chair”) for dancing chair robot and amplified floor
 Robotic chair with mounted servos, controlled by OSC via WiiMote
I’ll huff and puff and I’ll blow your house down for 3 video performers and live electronics
- 2009 *in which we become familiar* for violin, contrabass, and two flamenco dancers
Balancing Act II for broomstick, accelerometer, and live electronics
Sound. Picture. Coif. for hairstylist, live electronics, and video

- Collaboration with Kristina Wolfe (video) and Alissandra Hipona (hairstylist)
- 2008 *Every Night I Lose Control*
Song Cycle and Solo Cabaret Act for voice, accelerometer and live electrics
Balancing Act (2008) for voice, accelerometer, and live electronics
The Error of my Ways (2008) for voice, accelerometer, and live electronics
Study in Losing Control II (2007) for voice, accordion (optional), and live electronics
Things that Breathe (2007) for voice and live electronics
- 2007 *losing love in magnetic time* for fixed media, marimba, and vibraphone
Places in Time become Magnetic for fixed media
this and the day after for two trumpets and four-hand piano
Pop Presto #2 for fixed media

Installation Art

- 2013 *Blown Away* for 4-12 contact microphones, speakers, and projected video
In Transit for laptop, iOS devices, and projected video
lo atamos con alambre (“we tied it with wire”) for eight-channel speakers
Collaboration with Garrett Johnson, co-composer

Interactive Dance Work

- 2012 *D&SPAIR (Dance & Sonic Performance Art Improvisation Research) Club*
Improvisational collaboration with Julie Cruse, Brent Brimhall, Julie Akerly
- 2011 *Art in Motion: The stories we are*
Collaboration with Insurgo Stage Project, artistic director Avianna Perez
- 2009 *Crowded* for dancer, a pile of shoes, voice, accordion and live electronics
Collaboration with choreographer Eva Perrotta and Nu Dance Theater

SERVICE

- 2018 Reviewer, Music, NIME Conference 2018
- 2017 Reviewer, Papers and Musical Performances, SEAMUS Conference 2018
- 2016 Student Volunteer, ACM 3rd Human Factors in Computing Systems Conference (CHI)
Extended Programme Committee, 3rd International Conference on Live Interfaces, 2016
Reviewer, Travel Grants, ASU Graduate & Professional Student Association, Fall 2015 – Spring 2016
- 2015 Reviewer, Interview Travel Grant, ASU Graduate & Professional Student Association, Spring 2015

LANGUAGE PROFICIENCY

English (native language), Spanish (conversational and intermediate reading and writing)

PROFESSIONAL MEMBERSHIPS

ICMA – International Computer Music Association
ACM – Association for Computing Machinery
SEAMUS – Society for Electroacoustic Music in the United States
ACF – American Composers Forum
SAM – Society for American Music
EMF – Electronic Music Foundation
Phi Kappa Phi – Honor Society

REFERENCES

Available upon request.