

# Courtney Douglass Brown

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

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## **ACADEMIC POSITION**

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

## **EDUCATION**

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- 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**

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### **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

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### Juried and Peer-reviewed Performances

- 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

- 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**

- 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**

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### **Conference Proceedings (Peer-reviewed)**

- 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. (Short Paper Presentation)
- 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. (Short Paper Presentation)
- 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. (Long Paper Presentation)

### **Workshops (Peer-reviewed)**

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

### **Music Publications**

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

## **TEACHING EXPERIENCE**

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### **Instructor**

2017 Southern Methodist University, Dallas, TX, Center for Creative Computation  
CRCP 1310 Creative Coding I (Fall 2017)  
CRCP 3330 Artificial Intelligence and Creative Composition (Fall 2017)

### **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**

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### **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 (upcoming)  
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**

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- 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**

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- 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**

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- 2015 gbjck (Improvisational trio) <http://www.garrettlaroyjohnson/gbjck>  
 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**

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- 2012-13 Director, Laptop Orchestra of Arizona State- LORkAS,  
 President, Arts, 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**

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### **Selected Technical Skills**

*Languages:* C/C++, Java, 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 Veronica Vazquez y Damian Mechura Workshop, Z Room, Tempe AZ  
Cristina Sosa & Daniel Nacucchio, Z Room, Tempe AZ
- 2016 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**

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### **Current Research**

*Interactive Tango Milonga* (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–present)

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**

- 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 electric
- 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**

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- 2016 Student Volunteer, ACM 33<sup>rd</sup> Human Factors in Computing Systems Conference (CHI),  
Extended Programme Committee, 3<sup>rd</sup> 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**

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

### **PROFESSIONAL MEMBERSHIPS**

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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**

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Available upon request.