

# NICOLE L. CARROLL

## COMPOSER. PERFORMER. SOUND DESIGNER. BUILDER.

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### ACADEMIC DEGREES

**PhD**, Computer Music and Multimedia, Brown University, Providence, RI, In Progress, expected 2019

**Master of Music**, Bowling Green State University, Bowling Green, OH, 2005

Concentration: Composition, Secondary: Recording Engineering

**Bachelor of Music**, Magna cum laude, in Honors, Arkansas State University, Jonesboro, AR, 2003

Concentration: Composition, Secondary: Double Reed Performance

### RESIDENCIES

**SPLICE** 6/16, Western Michigan University, Kalamazoo, MI: Composition, SuperCollider

**Atlantic Center for the Arts** 5-6/13, New Smyrna Beach, FL: Composition, with Judith Shatin

**Atlantic Center for the Arts** 6-7/10, New Smyrna Beach, FL: Composition, with Josh Davis (Bit Shifter)

**Atlantic Center for the Arts** 2/05, New Smyrna Beach, FL: Composition, with Larry Austin

**June in Buffalo** 6/04, Buffalo, NY: Electronic music composition

**Brevard Music Center** 6-7/01, Brevard, NC: Composition, Bassoon performance

### OTHER EDUCATION

**Harvestworks** 11/08-12, New York, NY: Interactive performance techniques-

Max/MSP, Ableton Live, Max for Live, midi-controlled robots, circuit bending

**3rd Ward** 2013, Brooklyn, NY: Introduction to Plastics, DIY Printmaking

### SELECTED INSTALLATION/CONTROLLER PROJECTS

**Byzantine**, capacitive touch matrix developed for spatialization performance, 2015-present

**Color, Line, Shape, Texture**, for Andrew Demirjian, Mark Andreas, arduino and interface design, 6/13

**Moon River**, for John Delk, 50-channel audio installation, electronics design, 4/13

**Audible Geology**, for Andrew Demirjian, arduino and interface design, 4/13

**custom light conductors**, for Hans Tammen, arduino, interface and electronics design, 2/13, 6/13

**Untitled [Evil Sits on the Chest of a Sleeping Person]**, for Andrea DeFelice, extracted grand piano

keyboard-converted midi controller, Arduino, electronics design, 10/12

**Leave the Bass Alone, 5 Bases**, for Bernd Klug, arduino and feedback sensor to DMX control, 10/12

**Mad Max Noise Vest**, for Jimmy Joe Roche, arduino, interface and electronics design, 7/12

**Outdoor sound-alarm network**, for ROOTS School, interface and electronics design, 7/10

**Lunchbox**, custom pseudo-theremin midi controller, for Durians, basic stamp, interface and electronics design, 3/09

### THEATER DESIGN AND PRODUCTION EXPERIENCE

**Hamlet** Composer/Sound Designer, Shakespeare Shakedown, New York, NY, 3/15

**The Fox** Composer/Sound Designer, Gene Frankel Theater, New York, NY, 7/14

**Monster(s)** Composer/Sound Designer, The New School, New York, NY, 5/14

**Eaten Voices** Composer, Dixon Place, New York, NY, 6/13

**The Light in the Piazza**, Sound Designer, The Beacon School, New York, NY 5/13

**Honky** Sound and Video Op/Show Electrician, Urban Stages, New York, NY, 3-4/13, 10-11/13

**A Midsummer Night's Dream** Sound Designer, Shakespeare Shakedown, Brooklyn, NY 2-3/13

(section continued)

**Inner Voices** Live Sound Engineer/Show Electrician, Urban Stages, New York, NY, 11-12/12

**Hamlet** Composer/Sound Designer, Lost Nation Theater, Montpelier, VT, 9-10/12

**Lyddie** Composer/Sound Designer, Lost Nation Theater, Montpelier, VT, 4-5/12

**Metamorphoses** Composer/Sound Designer, Lost Nation Theater, Montpelier, VT, 9-10/11

**Moonlight and Magnolias** Sound Designer, Lost Nation Theater, Montpelier, VT, 5-6/11

**Star Alarm** Sound Designer, Mud/Bone Collective, New York, NY, 4-5/11

**Tomorrow's Shore** Sound Designer/Technical Director, Trefzger Collective, New York, NY, 3/11

**Honey Brown Eyes** Sound Op, Working Theater, New York, NY, 2-3/10

**Christmas Cabaret series** Sound Engineer, Urban Stages, New York, NY, 11-12/10

**Microcrisis** Sound/Light Board Op, Ma-Yi Theater Company, New York, NY, 9-10/10

**Fully Committed** Sound Designer, Lost Nation Theater, Montpelier, VT, 7-8/10

## SELECTED STUDIO PROJECTS

**Harpsichord Diaries** Sound Designer, audio and illustrated children's book package, Release: 2/14

**Falling Away** Sound Design team, full-length motion picture, 3/12

**Bullet Teeth: Hope Freaks** Recording and Mix Engineer, full-length album, 12/05

**SIGGRAPH: Synesthesia** Composition/Sound Design/Engineer team, promotional video, 6/04

## RELATED TEACHING EXPERIENCE

**Instructor of Record** Spring 2017 Brown University, Providence, RI

Designing Electronic Controllers and Instruments: Physical computing for the production of alternative music controllers, coding for microcontrollers, electronics, fabrication, Max/MSP

**Teaching Assistant** 2015-Present, Brown University, Providence, RI

Classes:

Computers and Music. Production lab: Logic, digital audio basics, electronic music composition techniques

Recording Studio as a Compositional Tool. Production lab: Pro Tools, Logic, studio recording techniques and live sound engineering

Digital Performance. Production lab: Jitter, live video processing and production

**Physical Computing Instructor** 2011-2014, Harvestworks, New York, NY

Physical computing with Arduino, specializing in sensors, motors, and interfacing with Max/MSP

**Guest Sound Design Instructor** Spring 2013, The Beacon School, New York, NY

System and content sound design, live mixing techniques for musicals, system installation

**Music Technology Teaching Assistant** 2003-2005, Bowling Green State Univ, Bowling Green, OH,

Digital sound synthesis and processing, MIDI, music programming languages (Max/MSP, Csound), audio-visual setup, studio maintenance, install audio systems

## RELATED WORK EXPERIENCE

**Freelance Composer/Designer/Sound Engineer** 12/05-Present, Vermont, New York, NY

Sound Design/Engineer for video and theater, custom interface design/fabrication

**Intern Coordinator** 2/11-2014, Harvestworks, New York, NY

Manage intern selection, meetings, scheduling and task assignments. A/V set up for performances, classes and installations at digital media arts center

**Sound/Light Technician** 2-6/10, Lamb Abbey, Montpelier, VT

Run sound and lighting systems in fixed performance space

**Sound/Light Technician** 5-9/09, Dark Star Lighting and Production, Hinesburg, VT

Install and run sound and lighting systems, equipment maintenance and transport

## TECHNICAL QUALIFICATIONS

**Programming Languages/Environments** Max/MSP, PD, Arduino, MPIDE, SuperCollider, Python, PBasic 2.5, Csound

**Music Production Software** Logic Audio, Pro Tools, Ableton Live, Reason, Spear, Raven, Amadeus, Audacity, Native Instruments, Waves, GRM, LSDJ and Nanoloop for Gameboy

**Visual/Video Production Software** Adobe and Apple suites for graphic design and video production

**Other Software** Finale, QLab, Fritzing, SketchUP

**Video/Lighting Equipment** camcorders, Martin and HES intelligent light and video projection instruments, PixelRange instruments, ETC and Chauvet lighting boards, Matrox triple-head

**Microcontroller/Sensor Systems** Basic Stamp, Arduino, Fubarino, XBee wireless, Bluetooth LE, environmental sensors, Kinect and camera sensing, motors

**Electrical Skills** soldering, circuit bending, designing and building electronic instruments

**Audio Production Equipment** Analog synthesizers, MIDI controllers, hardware effects units, analog and digital mixing consoles and control interfaces, portable recording units, audio interfaces, microphones

## SELECTED PERFORMANCES

(ALL WORKS AND PERFORMANCES LISTED SEPARATELY)

***Of the Moon, Under the Moon*** (2016), Trumpet, live electronics and video

SPLICE residency, University of Western Michigan, Kalamazoo, MI, 06/16

Electroacoustic Barndance, University of Mary Washington, Fredericksburg, VA, 11/16

SEAMUS Conference, St. Cloud University, St. Cloud, MN, 4/17

***Everything in its Place*** (2015), Byzantine custom controller and synthesizer, live electronics

Alchemy in Experimental Sound Symposium, National Library of Wales, Aberystwyth, Wales, 03/17

National Student Electronic Music Event Conference (NSEME), LSU, Baton Rouge, LA, 03/17

New Interfaces for Musical Expression (NIME), Griffith University, Brisbane, Australia, 07/16

New York Electronic Music Festival (NYCEMF), Abrons Art Center, New York, NY, 06/15

***Hand of Marseilles*** (2015), Piano, live electronics

New York Electronic Music Festival (NYCEMF), Abrons Art Center, New York, NY, 06/16

***I am Nobody*** (2014), soundtrack for short film

New Short Film Festival, University of North Carolina at Greensboro, Greensboro, NC, 04/16

International Video Poetry Festival, Athens, Greece, 12/15

***Not to Touch the Earth*** (2016), Site-specific installation, multichannel audio and video

Masters Thesis Show, Brown University, Providence, RI, 02/16

***Star Dust*** (2015), Site-specific interactive installation, multichannel audio and video

International Computer Music Conference (ICMC), University of North Texas, Denton, TX, 09/15

***Distortion Dora*** (2009), Circuit bent instruments and live computer processing

Habitacion del Rudio, Universidad del Claustro de Sor Juana, Mexico City, Mexico, 3/09

***DynApatheSonus*** (2009), Two-channel fixed media

Habitacion del Rudio, Universidad del Claustro de Sor Juana, Mexico City, Mexico, 3/09

***Intermission*** (2009), Two-channel fixed media

Habitacion del Rudio, Universidad del Claustro de Sor Juana, Mexico City, Mexico, 3/09

***Awakenings*** (2005), Digital video

Habitacion del Rudio, Universidad del Claustro de Sor Juana, Mexico City, Mexico, 3/09

Society for Electro-Acoustic Music in the United States, Iowa State University, Ames, IA, 3/07

Tenth Biennial Arts & Technology Symposium at Connecticut College, New London, CT, 4/06

***Flux*** (2004), Eight-channel fixed media

Society for Electro-Acoustic Music in the United States, Ball State University, Muncie, IN, 4/05

Praecepta, Bowling Green State University, Bowling Green, OH, 4/04 (quadraphonic mix)

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**Synesthesia** (2004), Promotional video, digital video

Siggraph 2004 Conference, Los Angeles, CA, 8/04

**Soft Sonics** (2003), Two-channel fixed media

Bowling Green State University Student Artists Union, Art Show, 10–11/03

**Seeking Reconstruction** (2003), Two-channel fixed media

June in Buffalo, State University of New York, Buffalo, NY, 6/04

SCI, National Student Conference, University of Iowa, Iowa City, IA 4/04

Delta Blues Symposium, Composer's Forum, Arkansas State University, 03/04

Electronic Music Midwest, Kansas City, KS, 10/03

**Travels to Nowhere** (2002), Digital video, quadraphonic sound

Society of Composers, Inc., Region VI Conference, Jonesboro, AR, 1/04

**my love is building** (2002), Two-channel fixed media

Praecepta, Bowling Green State University, Bowling Green, OH, 3/04

Undergraduate Scholar's Day, Arkansas State University, 4/02

Delta Blues Symposium, Composer's Forum, Arkansas State University, 03/02

**Euchre** (2002), Digital video

Electronic Music Midwest, Lewis University, Chicago, IL, 12/02

**Colors** (2001), Bass clarinet, marimba, cello

Brevard Music Center, Brevard, NC, 7/01

**Voiles** (Debussy) (2001), Arrangement for orchestra

Brevard Music Center, Brevard, NC, 7/01(reading)

**Wilderness** (2001), Digital video

Praecepta, Bowling Green State University, Bowling Green, OH, 2/04

Electronic Music Midwest, Kansas City, KS, 3/02

**The Hollow Men** (2001), Two-channel fixed media

Praecepta, Bowling Green State University, Bowling Green, OH, 2/04

**Seeking** (2000), Flute and clarinet

Brevard Music Center, Brevard, NC, 7/01

Delta Blues Symposium, Composer's Forum, Arkansas State University, 03/01

## COMPOSITIONS AND PERFORMANCES

### INSTRUMENT(S) WITH ELECTRONICS

**Of the Moon, Under the Moon** (2016), Trumpet, live electronics (Max/MSP) and video, Performance:

6/16, 7/16, 11/16, 4/17

**Hand of Marseilles** (2015), Piano, live electronics (Max/MSP), Performance: 12/15, 6/16

**Generations** (2013), Bassoon, percussion, fixed media

**Not Idle Noise** (2013), Bassoon, clarinet, guitar, woodblock, live processing (Max/MSP), fixed media,

Performance: 6/13

**Untitled Dance Piece** (2010), Digital video, dance, circuit bent instruments, bass guitar, live

processing, Performance: 3/09

**Distortion Dora** (2009), Circuit bent instruments, live processing, Performance: 3/09

**Noize Etude #1** (2009), Circuit bent instruments, photo theremin, live processing, Performance: 3/09

**Lament** (2004), Cello, live computer processing (Max/MSP), Performance: 5/04

**The Juniper Tree** (2003), Narrator, live processing (Max/MSP)

**Swimmer of Night** (2002), Honor's Senior Thesis, solo guitar, narrator, wind ensemble, live processing,

(Max/MSP), Reading: 11/02

**Requiem** (2002), Electric guitar with effects, brass quintet, Performance: 12/02

## LIVE ELECTRONIC IMPROVISATION

(CIRCUIT-BENT INSTRUMENTS, CUSTOM MIDI CONTROLLERS, LIVE PROCESSING)

*Everything in its Place* (2015), Byzantine custom controller, synthesizers, live electronics

Performance: 5/15, 6/15, 7/16, 3/17

**n0izmk**r set, Open Signal, Machines with Magnets, Pawtucket, RI: 4/15

**n0izmk**r set, *Not Idle Noise* bassoon remix, ((audience)) Sound Off, Alwan for the Arts, NY, NY: 8/13

**n0izmk**r set, Seven Immediacies Series, Vol. 6, ThingNY, Vaudeville Park, Brooklyn, NY: 6/12

**n0izmk**r with **Notendo** set, BinAural/Visual, Vaudeville Park, Brooklyn, NY: 3/12

**n0izmk**r set, Bleeps Over Brooklyn, Brooklyn, NY: 2/12

**n0izmk**r with **Invaderbacca** set, In/Out Festival, Knitting Factory, Brooklyn, NY: 11/11

**n0izmk**r with **Robophon**ic set, Voltaic/Harmonic, Langdon Street Cafe, Montpelier, VT: 5/09

**n0izmk**r guest appearance with **Durians**, Langdon Street Cafe, Montpelier, VT: 3/09

**n0izmk**r set, Voltaic/Harmonic, Langdon Street Cafe, Montpelier, VT: 2/09

## TWO-CHANNEL FIXED MEDIA

*Over/Under* (2016), collection of Arp/SuperCollider pieces, TBR: 2017

*Wicker* (2016), Performance: 5/16

*Intermission* (2009), Performance: 3/09

*DynApatheSonus* (2009), Performance: 3/09

*Broken Meditations* (2008), Performance: 3/09

*Soft Sonics* (2003), Installation: 10–11/03

*Seeking Reconstruction* (2003), Performance: 3/03, 10/03, 4/04, 6/04

*my love is building* (2002), Performance: 3/02, 4/02, 12/02

*Bassoon Textures* (2001), Performance: 11/01

*The Hollow Men* (2001), Performance: 3/01, 4/01

*Liquid Sky* (2000), Performance: 11/00

## MULTI-CHANNEL FIXED MEDIA

*Flux* (2004), Eight-channel fixed media, Performance: 5/04, 10/04, 4/05

*Reflections of the Tao* (2002), Quadraphonic fixed media, Performance: 12/02

*The Hollow Men {Quadraphonic Remix}* (2002), Quadraphonic fixed media, Performance: 4/02, 12/02

## VIDEO AND ELECTRONIC MEDIA

*I am Nobody* (2014), soundtrack for short film, Showing: 12/15, 4,16

*Vitruvian Cycle* (2014), live audio and video with dancer, with kinect sensor, Performance: 12/14

*Sonification* (2012), Soundtrack for Harvestworks promotional video

*Trotola* (2008), Soundtrack for on-location bicycle tour video, EpicPlanet.tv

*Awakenings* (2005), Masters Thesis, Digital video, Performance: 10/05, 4/06, 3/07, 3/09

**Siggraph: Synesthesia** (2004), Digital video, Performance: 8/04

*Travels to Nowhere* (2002), Digital video, 5.1 sound, Performance: 11/02, 12/02, 1/04

*Euchre* (2002), Digital video, Performance: 3/02, 11/02, 12/02

*Wilderness* (2001), Digital video, Performance: 4/01, 3/02, 11/02

*Frozen Sequence* (2000), Digital video, Performance: 11/00, 4/01, 11/02

*Night Lights* (2000), Digital video, Performance: 11/00, 4/01, 11/02

## INSTALLATION

***Not to Touch the Earth*** (2016), Site-specific installation, multichannel audio and video, Gallery Show: 02/16

***Star Dust*** (2015), Site-specific interactive installation, multichannel audio and video, Gallery Show: 09/15

## WORKS FOR THEATER AND DANCE

***Only Human*** (2016-17), Live electronics with solo dance, Green Space, New York, NY, 9/16, The Jack, NYC, 1/17, The Judson, NYC, 3/17, Triskelion Arts, 6/17

***Eaten Voices*** (2013), Soprano and fixed media, Dixon Place, New York, NY, 6/13

***Hamlet*** (2012), Cello and fixed media, recorder, Celtic harp, soprano, tenor, Lost Nation Theater, Montpelier, VT, 9-10/12

***Lyddie*** (2012), SATB chorus, violin, flute, piano, fixed media, Lost Nation Theater, Montpelier, VT, 4-5/12

***Metamorphoses*** (2010), Cello, accordion, piano, saxophone, fixed media, Lost Nation Theater, Montpelier, VT, 9-10/11

## ACOUSTIC

***Music of the Tao*** (2003), Any instrumentation

***Shades of the Tao*** (2003), Solo piano

***Snow Falls*** (2003), Guitar, vibraphone, piano

***Swimmer of Night for Solo Guitar*** (2003), Solo guitar

***Tango for Guitar and Cello*** (2002), Classical guitar, cello

***Voiles*** (Debussy) (2001), Arrangement for orchestra, Reading: 8/01

***Tracers*** (2001), Flute, clarinet, bassoon, vibraphone, piano, violin, cello, Performance: 12/02

***Colors*** (2001), Bass clarinet, marimba, cello, Performance: 4/01, 8/01

***Seeking*** (2001), Flute, clarinet, Performance: 3/00, 3/01, 4/01, 8/01

***Suite for Solo Clarinet*** (2000), Solo clarinet

***Suite for Solo Flute*** (2000), Solo flute, Performance: 4/01

***Supernova*** (2000), Percussion ensemble, Reading: 4/00

***Her Song*** (1999), Solo oboe, Performance: 3/00, 4/01

***Grandmama's House*** (1999), Solo violin, Performance: 3/00

***Park People*** (1999), Flute, clarinet, bassoon, cello

***Love, War, and Something in Between*** (1998), Flute, bassoon, Performance: 3/99

## LECTURES AND PRESENTATIONS

**"A DIY Approach to Bridging Art, Music, Electronics, and Performance,"** Panel Discussion: Moogfest, Durham, NC 5/17

**"Not to Touch the Earth: Data and Conceptual Mapping Systems,"** Poster Presentation: AV Synthesis Workshop in the Woods, Dartmouth, Hanover, NH 10/16

**"Development Process of the Byzantine Controller,"** Lecture: AV Synthesis Workshop in the Woods, Dartmouth, Hanover, NH 10/15

**"Star Dust: Mapping NASA Orbital Body Data to Audio and Video Synthesis,"** Poster Presentation: AV Synthesis Workshop in the Woods, Dartmouth, Hanover, NH 10/14

**"Mad Max Noise Vest,"** Demo/Display: World Maker Faire, NY Hall of Science, Queens, NY 9/12

**"Bending the Electronic Music Culture,"** Lecture: HOPE conference, New York, NY 6/12

**"Alternative Midi Controllers,"** Display: World Maker Faire, NY Hall of Science, Queens, NY 9/11

**"Bending, Building and Controlling,"** Workshop: circuit bending, analog synthesizer design, and controller implementation, Langdon Street Café, Montpelier, VT, 3/10

**"Mod Your Memories,"** Installation: Collection of circuit bent instruments on display for look and play, Langdon Street Café, Montpelier, VT, 3/10

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**"Circuit Bending: Bending the Electronic Music Culture of the United States,"** Seminar: Universidad del Claustro de Sor Juana, Mexico City, Mexico, 3/09

**"Reality and Nonreality in Jonty Harrison's *Unsound Objects*,"** Presentation: Composition Seminar, Bowling Green State University, Bowling Green, OH, 2005

**"The Process and Mutations of *Seeking Reconstruction*,"** Lecture: Delta Composer's Forum, Arkansas State University, Jonesboro, AR, 2003

**"Swimmer of Night, for Narrator, Solo Guitar, Wind Ensemble and Live Computer Processing,"** Lecture: Undergraduate Scholar's Day, Arkansas State University, Jonesboro, AR, 2003

**"Electronic Music and the Compositional Process of *my love is building*,"** Lecture: Undergraduate Scholar's Day, Arkansas State University, Jonesboro, AR, 2002

**"The Compositional Process of *my love is building*,"** Lecture: Delta Composer's Forum, Arkansas State University, Jonesboro, AR, 2002

**"The Life and Music of Oliver Messiaen,"** Presentation: Composer's Seminar, Arkansas State University, Jonesboro, AR, 2003

**"The Life and Tango of Astor Piazzolla,"** Presentation: Composer's Seminar, Arkansas State University, Jonesboro, AR, 2002

**"Electronic Music and Noted Composers of the Genre,"** Lecture: Fine Arts Music class, Arkansas State University, Jonesboro, AR, 2001

**"Electroacoustic Music and its Relevance in Today's Musical Society,"** Lecture: Brevard Music Center, Brevard, NC, Summer 2001

**"The Compositional Processes and Influences of Film Music in *Seeking*,"** Lecture: Delta Composer's Forum, Arkansas State University, Jonesboro, AR, 2001

**"Inverted Space in Salvatore Sciarrino's, *Lo Spazio Inverso*,"** Presentation: Composer's Seminar, Arkansas State University, Jonesboro, AR, 2001

**"Form and Structure Concepts of Anton Webern,"** Presentation: Composer's Seminar, Arkansas State University, Jonesboro, AR, 2000

## CURRENT MEMBERSHIPS

Society for Electro-Acoustic Music in the United States (SEAMUS)

International Computer Music Association (ICMA)

Society of Composers, Inc.

## REFERENCES

List available upon request

[nicolecarrollmusic.com](http://nicolecarrollmusic.com)

<https://vimeo.com/n0izmkr>

<https://soundcloud.com/n0izmkr>

Last updated: June 2017