

HUGH LOBEL
Scholar in Residence, University of Colorado Boulder
Creator, Lead Developer – The Music and Sound Design Platform

2718 Bruchez Parkway, Apt 18-105, Westminster, CO 80234
281-352-8404 – hugh.lobel@gmail.com
www.hughlobel.com / www.musicstdp.com

Education

University of Colorado, Boulder

DMA Composition – May 2015

Major Instructors: John Drumheller, Dan Kellogg, Carter Pann, Michael Theodore

Dissertation: The Altogether: a sound design, improvisation and electronic composition program

University of Texas, Austin

MM Composition – May 2011

Major Instructors: Russell Pinkston, Dan Welcher, Yevgeniy Sharlat

University of Houston

BM Composition, Magna cum Laude – May 2009

Major Instructors: David Ashley White, Rob Smith

Teaching Experience

University of Colorado, Boulder

Department of Critical Media Practices – Scholar in Residence

CMDP 4870-001 – Multimedia Programming in Max, Fall 2018

CMDP 3510-002 – Creative Web Portfolio Development, Spring 2018, Fall 2018

CMDP 3840-001 – Sound Practices, Spring 2018

CMDP 3860-001 – Introduction to Electronic Music, Fall 2017, 2018

CMDP 4860-001 – Computer Composition, Spring 2018

CMDP 2860-001 – Performance Audio Recording, Fall 2017, 2018

CMDP 2870-001 – Recording Design, Spring 2018

CMDP 4841-902 – Independent Study, Spring 2018

School of Music – Adjunct Faculty

IMUS 5093-570 – Technology in the Music Classroom – Summer 2018

MUSC 4081-001 – Introduction to Music Technology. Fall 2011 – Spring 2013

MUSC 4081-800 – Introduction to Music Technology for Non-Majors. Fall 2012 – Spring 2013

MUEL 4121-001 – Topics in Music Technology: Composing in Max/MSP, Fall 2015

MUSC 2071-001 – Instrumentation, Spring 2016

MUEL 1081-001 – Basic Music Theory. Spring 2015

Department of Theatre and Dance – Adjunct Faculty

DNCE 3024-001 – Musical Resources for Dance, Spring 2016

DNCE 5024-001 – Graduate Musical Resources, Spring 2016

CU Science Discovery, Summer Highschool Program – Summer Instructor

Physical Computing: Hacker Space - Summer 2016

Continuing Education – Adjunct Faculty

PMUS 1526-802 – Composition. Fall 2013- Spring 2015

Guest Lecturer

University of Colorado, Boulder (six sessions)

MUSC 4001 – New Music Styles and Practices

MUSC 4081 – Introduction to Music Technology

MUEL 3051 – Basic Composition

Metropolitan State University, Denver (one session)

MUS 1650 – Basic Music Technology

University of Texas, Austin (three sessions)

BDP 101 – Exploring Digital Art & Media

Lone Star College, Houston (two sessions)

MUSC 1191 – Professional Development for Musicians

Community Engagement

Boulder, Colorado

Co-Instructor – **The Field, Fieldwork** workshops foster trans-media creation, execution, and feedback over an intensive 1 - 2 month period. Sponsored by Michelle Ellsworth and hosted by the CU Dance Department. Spring 2014 – Present

Staff Instructor – The Lesson Studio. Composition, theory and piano lessons. May 2013 – August 2017

Private Instructor – Composition, theory and piano lessons. 2011 – Present

Houston, Texas

Staff Instructor – Rockin Robin Music Lessons. Composition, theory and piano lessons. August 2008 – August 2009

Private Instructor – Composition, theory and piano lessons. 2006 – 2009

Art Technology and Interdisciplinary Media Collaboration:

2015 – Present:

The Music and Sound Design Platform (MSDP) is an open-source platform for multimedia synthesis, design, and performance. MSDP is actively developed and has fostered an international community of creators who use the tool for innovative productions, performances, and multimedia projects. See selected release history on page 5.

2018: **Ecotone: for dancer, violinist, sensor technology, live audio and live video manipulation**

Electronic music, sensor design, and video manipulation by Hugh Lobel. Choreography by Ondine Geary, Violin performance by Summer Lusk. Media Lab, Boulder CO.

2014: **The Pain of Becoming.** Directed, produced, and composed an evening-length production for chamber ensemble, electronics, dance and live video. Choreography by Christina Nelson, Videography by Kyle Monks. Black Box Theatre, Boulder CO.

2013: **Skin and Pulp.** Co-directed, composed, and performed the music for an evening-length large-scale improvisatory work on piano, accordion, singing, whistling, and electronics, with dance and live video. Lead direction and choreography by Christina Nelson. Videography by Kyle Monks. Irie Theatre, Boulder CO.

2012: **Clementines and Chocolate.** Co-directed, composed, and performed the music for a large-scale work on piano, accordion and electronics, with dance and live video. Lead direction and

choreography by Christina Nelson, Videography by Kyle Monks. Black Box Theatre, Boulder CO.

2011 – 2012:

Live Music Analysis and Improvisation System. Developed KIN.MPS system for automatic music phrase analysis. Collaboration between the University of Texas, Austin and the Faculdade de Engenharia da Universidade do Porto, Portugal. Grant provided by the government of Portugal to develop a self-learning, genre-flexible improvisational computer accompaniment for live performers. Austin TX.

2009: The Iris Project Intermedia Cooperative. Co-founded, acted as music director, composer, and performer for an interdisciplinary artistic cooperative created with funds by the Cynthia Woods Mitchell Center for Collaboration Among the Arts. Several performance art projects and gallery shows around the greater Houston area. Houston TX.

2005: Bread and Circus. Co-directed, acted as music director, composer, and performer for an interdisciplinary gallery installation/video performance piece. 14 Pews (previously Aurora Picture Show), Houston TX.

Commercial Web and Software Development:

May 2015 – August 2018:

Acclaro Design. Front-End Website and Web Application Development for small-to-medium businesses and non-profit organizations. Denver, CO.

Selected Client List:

- Amplifire: Development for the online education platform as well as for their marketing pages. Knowledge Factor is changing the way textbook publishers, college test prep, and professional certification programs offer online learning: www.amplifire.com
- Fetal Health Foundation: The nonprofit Fetal Health Foundation supports families who are diagnosed with a fetal condition during pregnancy. www.fetalhealthfoundation.com
- Elevation Solutions: Elevation Solutions helps organizations create value by putting people at the center of technological solutions. www.elevation.solutions
- Knowledge Benefits: Knowledge Benefits offers online courses to empower employers to buy higher value healthcare. Knowledgebenefits.com
- Hal Sports: Hal Sports helps organizations make endurance events amazing. www.halsports.net

June 2016 – October 2017:

MomoTone. Designed prototype software for the Seoul-based (previously located in Boulder) startup MomoTone, which is developing kinetically interactive hardware that allows users to remix, remake, and control their music library through intuitive gesture technology. Developed the prototype platform responsible for translating physical gestures into a variety of engaging musical interactions. Boulder, CO.

Additional Leadership and Administrative Positions

Faculty Adviser: Media HYPE, Student Performance Showcase. Fall 2017, 2018. Boulder CO

Production Manager: Pendulum New Music Series. Fall 2013 – Spring 2015. Boulder CO

Media Manager: Pendulum New Music Series. Fall 2013- Spring 2015. Boulder CO

Member: BLOrk. Fall 2014 – Spring 2015. Boulder CO.

Co-Instructor/Organizer: *The Field* Fieldwork Workshop Series. 2014-Present. Boulder CO

Judge: 2014 64-bit Composition Competition. Boulder CO
Co-Director: 2013 International Supercollider Symposium. Boulder CO
Co-Director: 2013 Midwest Composers Exchange. Boulder CO
Co-Director: University of Texas Composition Seminar, Fall 2011. Austin TX
Treasurer: CLUTCH University of Texas Student Composer Organization Spring 2010 – Spring 2011. Austin TX
Administrative Assistant: Houston Friends of Chamber Music. 2008-2009. Houston TX

Areas of Interest:

Sound design, multimedia collaboration, acoustic and electroacoustic composition, physical computing, free and open-source software design and cultural impacts, programming/system design, interdisciplinary performance, concert production, live audio recording, sound engineering, twenty-first century media and performance.

Programming Language / Software Experience:

Languages

Max/Max4Live, Pure Data, Supercollider, Csound, Arudino IDE, HTML, CSS, Javascript, NodeJS

Software

Music_SDP, Ableton Live, Logic, Cubase, Reason, Audacity, Cecilia, Sibelius, Finale, MuseScore, Soundhack, SPEAR, Garageband, Pro Tools, WordPress, MAMP, Amazon Web Services, Adobe Photoshop / Premiere Pro / After Effects, MongoDB, SQL, Hugo, Atom (and other IDEs), Terminal/Powershell, Trello, Slack

Selected Awards/Commissions

- 2018:** **Commission:** *Chairs*. A new work to commemorate the 30th anniversary of Frequent Flyers Aerial Dance Company
- 2017:** **Commission:** *Lotus City Songbook, Vol. 2 for bass clarinet and computer*. A new work for the Texas New Music Ensemble.
- 2016:** **Commission:** *Femeia Goala for Ondes Martinot, Piano, and String Sextet*, and *Klin, for string quartet*. Commissioned by Scott Jackman and recorded with Andrew Keener, Nathalie Forget and members of the Welsh National Opera.
- 2015:** **Finalist:** The Playground Ensemble's Colorado Composers Concert Competition 9
Selection: Oregon Conference for Graduate Musicians.
- 2014:** **Commission:** *Shouts and Whispers, for brass quintet*. Commissioned by American Festival for the Arts, for their 20th anniversary season.
Commission: *Closures, for amplified: bass clarinet, piano, percussion, guitar and cello*. Playground Ensemble CoCoCo 8 Commission.
Winner: Areon Flutes International Composition Competition
Winner: Spark Graduate Composition Award
Finalist: ASCAP Morton Gould Award
Finalist: 2014 Lake George Music Festival Composition Competition
Finalist: The Playground Ensemble's Colorado Composers Concert Competition 8
- 2013:** **Commission:** *Church Night with the Burners for violin studio in 8 parts*. Commissioned by CU Violin Professor Lina Bahn and the CU String Department.

- Commission:** *Lotus City Songbook Vol. I for guitar and marimba*. Commissioned by Liminal Space.
Commission: *The Path to Blindness for string quartet*. Levy Graduate Commission.
Winner: The Playground Ensemble's Colorado Composers Concert Competition 7
Selection: 2013 Gamma UT Conference
- 2012:** **Commission:** *Luminalia for cello and Max/MSP*. Commissioned by University of Texas Dance Professor David Justin.
Winner: Levy Graduate Composition Prize
- 2011:** **Fellowship:** ATLAS Fellow. Colorado University, 2011-2014
- 2010:** **Commission:** *Extroverted for oboe sextet*. Commissioned by Amy Morrison and the Texas State University Oboe Studio.
Commission: *Lewisium for violin and Max/MSP*. Commissioned by UT Violin Professor Brian Lewis.
- 2009:** **Fellowship:** Kent Kennan Endowed Graduate Fellowship in Music Composition. 2009-2011
Commission: *Through the Electric Naught for pierrot ensemble*. 2009 AURA New Music Ensemble Student Composer Commission.
- 2007:** **Winner:** Undergraduate Division. Louisa Mae Sarofim Young Composer's Competition

The Music and Sound Design Platform Selected Release History:

Download, Documentation, and Complete Release History: www.musicstdp.com

- 2018 Oct 6** **1.4.0 Release**
Major speed upgrade across the platform. New dials for more precise and more performant control. Launch of online documentation at docs.musicstdp.com. MIDI Sequencer module, Controller Mapper module, LFO Automator module, Score Automator module, CreepyVerb module, Spectroview module added. Additional improvements to Master Metronome and more metro sync options added across the platform. MSDP.Builder script automates UI creation for new modules.
- 2018 July 16** **1.3.0 Release**
Full database implementation established for use case analysis and performance metrics. Persistent state dictionary built to allow for complete project save, recall, and program crash recovery. New 3D wavetable synthesizer built that generates images based on noise and fractal functions and converts images to audio synthesis buffers. New module templates for streamlined module development. System preferences implemented and audio options added to support 192k sample rates and 24-bit bit-depth. Metronome redesigned to accommodate extended rhythmic options across platform and to lay groundwork for future implementation within Ableton Live.
- 2018 Feb 18** **1.2.0 Release**
Pedal Board rebuilt from the ground up. Can now be expanded up to 128x128 modules in each board. Modules can now be removed and board size scales dynamically to screen resolution and number of modules on boards. Code optimizations across all instruments. Subtractive Synthesizer added. System currently has 63 modules.
- 2018 Jan 1** **1.1.6 Release**
Preset system v2 implemented. Major System Board, Project Loader, Virtual Instruments, File Managers, and Metronome code optimizations. Added Ableton Link for tempo sync across multiple platforms on a network. New stochastic modules and added functionality in existing stochastic tools.
- 2017 May 28** **1.1.5 Release**
Developed Max 7 external to provide access to PC and Mac file system, allowing us to remove Java from the program and simplifying the install and build process. Launched

- Github repository to maintain public development process, and added new developer launch pad to improve workflow. *The Chopper* module added.
- 2017 Feb 18 1.1.3 Release**
Full-screen application state developed. Stochastic File Granulator implemented along with Randomator and Automator modules to streamline automation exploration. New logo and several other visual assets created.
- 2016 Dec 11 1.1.1 Release**
VST system implemented along with VST instrument and effect modules to allow for third party tools to be loaded and used in projects.
- 2016 Nov 15 1.1.0 Release**
Major aesthetic revision across the system. Implementation of major code optimizations and resource management tools. Redesigned score player. New board browser tab. Module templates for streamlined development process. Beat-slicer module *The Chopper* introduced.
- 2016 May 30 1.0.8 Release**
Transport Bar / Metronome Control Designer implemented along with global time sync integration and two new modules: The MIDI Arpeggiator, and the A+2 instrument.
- 2016 Apr 3 1.0.5 Release**
MIDI system implemented along with two MIDI specific modules. Communicates with existing instruments.
- 2016 Mar 20 1.0.4 Release**
Addition of new Chaos Synthesizer and implementation of preset system v. 1
- 2016 Feb 15 1.0 Release**
Initial launch. Includes 45 modules, score system, virtual instruments

Selected Works:

- 2018:** **Blank Your Blank Out** – for dance, violin, and live electronic audio and video manipulation. 15'
- 2017:** **The Lotus City Songbook, Vol. 2** – for bass clarinet and computer. Commissioned by the Texas New Music Ensemble. 9'
- 2016:** **Femeia Goala** – For ondes martinot, piano, and string sextet. 5'
Klin – for string quartet 5'
- 2015:** **Shouts and Whispers** – for brass quintet. 7'30"
Commissioned by AFA (American Festival for the Arts)
- 2014:** **Closures** – for amplified: baritone saxophone, percussion, guitar, cello and piano. 9'
Commissioned by The Playground Ensemble
Lotus City Dharma – for flute trio and electronics. 22'
Commissioned by Areon Flutes
- 2013:** **Tremors** – for amplified cello and baritone saxophone. 6'
Lotus City Songbook, Vol. I – for electric guitar and marimba. 15'
Commissioned by Liminal Space
- 2012:** **The Path to Blindness** – for string quartet. 15'
Commissioned by the Levy Graduate Award
Braying at Rothko in Tinsley Park – for flute, clarinet, piano, violin, viola and cello 7'30"
Church Night with the Burners – for violin choir. 5'
Commissioned by Lina Bahn and the CU String Department
Heavy Atoms: Davisium – for narrating pianist and Max/MSP. 24'
Poetry by James Davis
- 2011:** **Heavy Atoms: Lewisium** – for violin and Max/MSP. 9'30"
Commissioned by Brian Lewis
Manifold Facing West – for full orchestra 9'

- 2010: **Shoulder2Shoulder** – for violin and Max/MSP 9'
Ecotone – for orchestra 9'30"
Isodrome – for string orchestra 6'30"
- 2009: **Through the Electric Naught** – for mixed chamber ensemble. 9'30"
 Commissioned by AURA New Music Ensemble
5 Haiku – for solo piano 13'
- 2008: **Three Apparitions** – for solo piano 9'45"
Great Beasts – for solo violin 10'
- 2007: **Death and Transfiguration of a Mad King** – for string quartet 4'45"
- 2006: **Three Yeats Songs** – for men's choir. 7'
 Commissioned by the University of Houston Men's Choir
- Full Works List: www.hughlobel.com

Selected Performances

- 2017 Dec 01 **Summer Lusk + Hugh Lobel. Contemplation_00**
 Atlas Black Box Theatre, Boulder CO
- 2017 Aug 12 **Texas New Music Ensemble. The Lotus City Songbook, Vol. 2**
 MATCH Houston, Houston TX
- 2016 Dec 11 **Westheimer String Quartet. The Path to Blindness.**
 Emerson Unitarian Universalist Church of Houston, Houston TX
- 2016 Aug 4 **Andrew Keener, Nathalie Forget and members of the Welsh National Opera**
Femeia Goala, and *Klin*
 Recorded at Wyastone Concert Hall, Wye Valley, England.
- 2015 Feb 25 **Summer Lusk, Violin Radical, Feral, Senseless, Frail**
 Atlas Black Box Theatre, Boulder CO
- 2014 Nov 15 **Brian Lewis, Violin. Heavy Atoms, Lewisium**
 EARS Concert, McCullough Hall, Austin TX
- 2014 Oct 10 **Areon Flutes, Flute Trio Lotus City Dharma**
 Trinity Concert Series, Trinity Church, Berkeley CA
- 2014 May 5 **Playground Ensemble Closures**
 Kenneth King Concert Hall, Denver CO
- 2013 Sept 25 **Liminal Space Lotus City Songbook, Vol. I**
 Spring Street Studios, Houston TX
- 2013 Apr 10 **CU Violin Studio Church Night with the Burners**
 Grusin Hall, Boulder CO
- 2012 Oct 28 **David Justin Dance Company Luminalia**
 Austin Shakespeare Company, Austin TX
- 2012 June 28 **Molly Emmerman, Violin Shoulder2Shoulder**
 Muskerwohnhaus, Basel, Switzerland
- 2011 May 5 **Stereo Audio Installation Cerrado por Brujeria**
 Blanton Museum of Art, Austin TX
- 2011 Apr 9 **Ellen Bartel Dance Company I Always You Never**
 Spoke The Hub National Festival, Brooklyn NY
- 2009 Apr 14 **AURA New Music Ensemble Through the Electric Naught**
 Moores Opera House, Houston TX

Presentations/Publications:

Lobel, Hugh. Composing and Coding in the Music and Sound Design Platform: a free performance platform for electronic composers that's expandable with Max 8. (2019) Workshop. 2019 SEAMUS conference. Berklee College of Music and Boston Conservatory at Berklee, Boston, Massachusetts.

Lobel, Hugh. Composing and Coding in the Music and Sound Design Platform: a free performance platform for electronic composers that's expandable with Max 8. (2019) Workshop. 2019 MOXSonic conference. University of Central Missouri, Warrensburg, Missouri.

Lobel, Hugh. The Music and Sound Design Platform, an introduction. (2016). Oral Presentation. Accepted for presentation. 2016 International Computer Music Conference. University of the Arts Utrecht, Netherlands.

Lobel, Hugh. The Music and Sound Design Platform, an introduction. (2016). Oral Presentation. Accepted for presentation. 2016 International Computer Music Conference. University of the Arts Utrecht, Netherlands.

Lobel, Hugh. Automatic Music Phrase Analysis (2013). Oral Presentation. 2013 Midwest Composers Exchange. University of Colorado, Boulder.

Pennycook, Bruce, Hugh Lobel, Russell Pinkston, Carlos Guedes. The KIN.MPS System. (2012). Accepted for presentation. 2012 International Computer Music Conference. University of Huddersfield, UK.

Pennycook, Bruce, Carlos Guedes, Hugh Lobel. Automatic Music Phrase Analysis. (2011). Oral Presentation. SEAMUS, 2011 Conference of the Society for Electroacoustic Music of the United States. University of Miami.

Selected Performance Experience

- 2018:** **Computer:** Sound Painting with the Boulder Laptop Orchestra. April 21. Black Box Theatre. Boulder CO
- 2017:** **Computer:** Lobel, Hugh and Summer Lusk. *Contemplation_00*. Black Box Theatre, Boulder CO
Voice, Accordion: Several performances around the Denver/Boulder area with Doina Romanian Choir
- 2016:** **Computer:** Lobel, Hugh and Michael Mann. *I AM: Duo Improv*. Irie Theatre, Boulder CO
Voice, Accordion: Several performances around the Denver/Boulder area with Doina Romanian Choir.
- 2015:** **Computer:** Lobel, Hugh. *Radical, Feral, Senseless, Frail*. Black Box Theatre, Boulder CO
Accordion. Golijov, Osvaldo. *Ayre*. Colorado New Music Ensemble. January 29th-30th. Boulder CO
- 2014:** **Computer.** Boulder Laptop Orchestra. Multiple concerts through the Fall 2013, Spring 2014 season. Boulder CO
Computer: Lobel, Hugh. *The Pain of Becoming*. Black Box Theatre, Boulder CO
Computer. Reich, Steve. *Violin Phase*. Assistant. Summer Lusk, Violin Master's Recital. Boulder CO
- 2013:** **Piano, Accordion, Voice, Computer.** Lobel, Hugh. *Skin and Pulp*. Boulder CO
- 2012:** **Piano, Computer.** Lobel, Hugh. *Bornium, for soprano, piano, and Max/MSP*. Iowa City, Iowa
Piano, Accordion, Voice, Computer. Lobel, Hugh. *Clementines and Chocolate*. Boulder CO

Whistle. Mueller, K. D. *Wisdom*. Boulder CO

Narrator. Lobel, Hugh. *Davisium, for narrator, pianist, and Max/MSP*

2011: Accordion. University of Texas Conjunto Ensemble. Multiple concerts throughout the Fall 2010, Spring 2011 season. Austin TX