

## HUGH LOBEL

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www.musicsdp.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**

**CMDP 2870** – Recording Design, Spring 2018

**CMDP 3510** – Creative Web Portfolio Development, Spring 2018

**CMDP 3840** – Sound Practices, Spring 2018

**CMDP 4841-902** – Independent Study, Spring 2018

**CMDP 4860** – Computer Composition, Spring 2018

**CMDP 2860** – Performance Audio Recording, Fall 2017

**CMDP 3860** – Introduction to Music Technology, Fall 2017

##### **School of Music**

**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 4081-001** – Introduction to Music Technology. Fall 2011 – Spring 2012

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

**MUEL 4121-800** – Topics in Music Technology: Composing in Max/MSP, Fall 2015

**CU Science Discovery** – Physical Computing: Hacker Space, Summer 2016

**MUSC 2071-001** – Instrumentation, Spring 2016

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

**DNCE 5024-001** – Graduate Musical Resources, Spring 2016

**MUEL 1081-001** – Basic Music Theory. Spring 2015

**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

**Performer** – Doina Romanian Choir. Jan 2016 – March 2017. Accordion player / vocalist

**Performer** – Boulder Laptop Orchestra – Performer and Guest Performer – August 2014 - 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

### Commercial Web and Software Development:

#### **May 2015 – Present:**

**Acclaro Design.** Front-End Website and Web Application Development for small-to-medium businesses and non-profits. 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](http://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](http://www.fetalhealthfoundation.com)

**Elevation Solutions:** Elevation Solutions helps organizations create value by putting people at the center of technological solutions. [www.elevation.solutions](http://www.elevation.solutions)

**Knowledge Benefits:** Knowledge Benefits offers online courses to empower employers to buy higher value healthcare. [Knowledgebenefits.com](http://Knowledgebenefits.com)

**Hal Sports:** Hal Sports helps organizations make endurance events amazing.

[www.halsports.net](http://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.

## Art Technology and Interdisciplinary Media Collaboration:

### 2015 – Present:

**The Music and Sound Design Platform (Music\_SDP)** is an open-source platform for live electronic and electroacoustic music creation and performance. Music\_SDP 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.

**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 largescale 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.

## Additional Leadership and Administrative Positions

**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, PHP, Python

### Software

Music\_SDP, Logic, Cubase, Reason, Audacity, Cecilia, Sibelius, Finale, MuseScore, Soundhack, SPEAR, Garageband, Ableton Live, Pro Tools, WordPress, MAMP, Amazon Web Services, MongoDB, SQL and NoSQL databases, Adobe Creative Suite, JQ, Hugo, MQTT, Jupityr Notebooks, ELK stack, Atom IDE

## Selected Awards/Commissions

- 2018:** **Commission:** *TBD*. A new work for the 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. 1 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](http://www.musicstdp.com)

- 2018 July 16** **1.3.0 Release**  
 Full database implementation established for use case analysis and performance metrics. Full 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 electronics. 10’
- 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](http://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. 1*  
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*  
Moore's Opera House, Houston TX

## Presentations/Publications:

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 29<sup>th</sup>-30<sup>th</sup>. 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