Ted Moore

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Composer, Improviser, Intermedia Artist, Educator

EDUCATION

2021	PhD, Music Composition	Chicago, IL
	University of Chicago	
	Studied with Sam Pluta, Anthony Cheung, & Augusta Read Thomas	
2011	Master of Arts, Music Composition	Kirksville, MO
	Truman State University	
	Studied with Charles Gran & Warren Gooch	
2009	Bachelor of Arts, Music (Philosophy minor) cum laude	Decorah, IA
	Luther College	
	Composition studies with Brooke Joyce	
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POSTDOCTORAL RESEARCH

Postdoctoral Research Fellow in Creative Coding on the FluCoMa project

University of Huddersfield, UK

September 2021 – August 2022

The Fluid Corpus Manipulation project (FluCoMa) enables techno-fluent musicians to integrate machine listening and machine learning in their creative practice within Max, SuperCollider, and Pure Data. While working on the project I developed pedagogy and learning resources, taught workshops, built community through knowledge sharing and creative inspiration, and lead the thinking on the SuperCollider interface design, help-files, and SuperColliderspecific tools.

PRIMARY INSTRUCTOR Teaching & Academic Leadership

2022	Primary Instructor: Computer Music & Multimedia I - Introduction to instrument design & performance with Max - Mix of music majors and computer science majors	Virginia Tech Univ.
2020	Primary Instructor: Elec. Music I: Composing with Sound - Musique concrète, modular synthesis, and Reaper DAW	Univ. of Chicago
2017 - 2020	Academic Dean: The Walden School (Summer Music Program) - Curriculum development - Train faculty in pedagogy and course design - Administration of school-wide pedagogical events	Dublin, NH
2011 - 2019	Faculty: The Walden School (Summer Music Program) - Courses Taught include: Electronic music, Musique Concrète, Composition, Algorithmic Music, Musicianship, and SuperCollider	Dublin, NH
2014 - 2017	Adjunct Faculty: McNally Smith College of Music - Sound Design curriculum including analog synthesis, digital sampling, and Reason DAW	St. Paul, MN

2014 - 2017	Faculty: Slam Academy (Community Music School) - Individual and classroom instruction	Minneapolis, MN
	- Music composition including various popular styles	
	- Audio production including recording techniques, and hardware & software studio tools	
	- Ableton Live DAW	
2014 - 2017	Composition Faculty: MacPhail Center for Music (Community Music School)	Minneapolis, MN
	 Individual and class instruction in the materials & design of music in various styles including classical & popular music All ages, beginner to advanced levels 	
2015 - 2016	Music Instructor: Integrated Arts Academy (High School)	Chaska, MN
	- "Rock Band" Class: music fundamentals, instrumental instruction (guitar, bass guitar, keyboards, singing), and small group performance (trios & quartets) of popular music repertoire	
2012 - 2015	 Adjunct Faculty: Art Institutes International (College) Courses Taught: MIDI Systems I & II, Listening & Analysis, Audio Technology I & II, Music Theory I & II, Synthesis & Sound Design I & II, and Music Appreciation 	Minneapolis, MN
	- Topics Taught: Max, SuperCollider, synthesis, instrument building, ProTools DAW, Reason DAW, MIDI hardware, sampling libraries (EastWest), popular music production techniques, Moulton Golden Ears, digital & analog audio technology theory, microphone & recording techniques, hardware & software studio technology, music theory for popular music production students	
2014 - 2015	Music Instructor: St. Paul High School of Recording ArtsInvidual and small group guitar lessons	St. Paul, MN
2009 - 2011	Primary Instructor: Aural Skills I & II	Truman State Univ.
2009 - 2011	Faculty: Dorian Summer Music Camps - Individual and classroom instruction in music composition - Beginner to advanced teens	Decorah, IA
COURSE AS	SSISTANT Teaching	
2020	Course Assistant: Intro. to Music: Analysis & Criticism - Assisted primary instructor Berthold Hoeckner - Many non-music students from across the University - Small group instruction in listening & critical analysis - Writing support	Univ. of Chicago
2019	 Course Assistant: Electronic Music II: SuperCollider - Assisted primary instructor Sam Pluta - Many non-music students from across the University - Individual and class instruction - No prior coding knowledge required 	Univ. of Chicago

2019 – 2020 | Studio Assistant: CHIME Studio Univ. of Chicago

2009-2011 | Teaching Assistant:

- Aural Skills III & IV (classroom & small group instruction), 18th century counterpoint (classroom & small group instruction), and Orchestration & Instrumentation (classroom & small group instruction)

Truman State Univ.

AWARDS, HONORS, & RESIDENCIES

2023	Winner: Browser Sound Commission Competition	Stuttgart, DE
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2022	Composer-in-Residence: PHONOS Foundation	Barcelona, ES
2021	Selected Work: Score Follower: triangle	
2021	Second Place: Robert Avalon Comp., Foundation for Modern Music	Houston, TX
2021	Honorable Mention: Lake George Mus. Fest. Composition Competition	Queensbury, NY
2020	Winner: National Sawdust Composer Competition	New York, NY
2020	Featured Work: Score Follower: tap	
2020	Finalist: [Switch~ Ensemble] Commissioning Prize	New York, NY
2019	Composer-in-Residence: Arts, Sciences, & Culture Initiative	Univ. of Chicago
2018	Finalist: Mivos Quartet, Kantor String Quartet Composition Prize	New York, NY
2018	Artist-in-Residence: STEIM (STudio for Electro-Instrumental Music)	Amsterdam, NL
2017	Composer-in-Residence: Zeitgeist Composer Workshop	St. Paul, MN
2016	Featured Work: Score Follower: if two things	
2015	Composer-in-Residence: Kimmel Harding Nelson Center for the Arts	Nebraska City, NE

COMMISSIONS

2023 2022 2022 2021 2020 2020 2020 2019 2019	Browser Sound Festival: with the DigiScore Research Project PHONOS Foundation: sine, multichannel audio Dana Jessen: DJII: Improvisation Software Ensemble Suono Giallo: noise/gate, for double bass, tape, & video [Switch~ Ensemble]: quartet, for flute, percussion, piano, cello, & video National Sawdust: triangle, for string quartet & tape HOCKET: apsis ii, for piano four hands & tape Line Upon Line: for line upon line, video Chicago Civic Orchestra: hold, tape Dana Jessen & Erica Dicker: crunch, for bassoon, violin, & tape Evan Fowler: squall, for trumpet & tape Line Upon Line: tap, for percussion trio, tape, lights, & video Kyle Hutchins: column, for saxophone, HDLA, & lights Scott Miller: Solstice Orrery, video design Patti Cudd: still motion, percussion & live video sampling Joey Brink: the curve is exponential, carillon & tape Splinter Reeds & Walden School: feedback vii: speak, contain Quince Ensemble & Walden School: only that there's a secret LoSo: APSIS, for flute, cello, percussion, saxophone, electronics, & video Jeremy Johnston: it teaches us that it doesn't exist, for feedback cymbal Dream Songs Project: FEATHERMUCKER, for voice, guitar, & tape ICE & Walden School: thread fork thread, for flute, viola, perc., sax. The Poem is Done Ensemble: if two things, for voice, sax., & elec. Skewed Visions Theater: eclipse, for saxophone, electronics, & video Spektral Quartet & Walden School: samara, string quartet & alto flute Spitting Image: leviathan, for bass clarinet, electronics, & vases	Stuttgart, DE Barcelona, ES Oberlin, OH Città di Castello, Italy New York, NY Brooklyn, NY Los Angeles, CA Austin, TX Chicago, IL New York, NY Iowa City, IA Austin, TX Virginia Tech Univ. Minneapolis, MN Minneapolis, MN Univ. of Chicago Dublin, NH Dublin, NH Minneapolis, MN Dublin, NH Minneapolis, MN Minneapolis, MN Dublin, NH Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN Minneapolis, MN
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2014	Spitting Image: leviathan, for bass clarinet, electronics, & vases	Minneapolis, MN
2014	Yarn/Wire & Walden School: eyes may be impaired	Minneapolis, MN
2013	RenegadeEnsemble: is himself no more, for saxophone & electronics	Minneapolis, MN
2013	AVIDduo: deepities, for saxophone & flute	Denton, TX
2013	Cedar Cultural Center: Gilgamesh & Enkidu, for string quartet & elec.	Minneapolis, MN
2012	RenegadeEnsemble: ice, water, for clarinet	Minneapolis, MN
2012	Tenegade Internation to the first tenegation of the fi	minicapono, mir

selected LIVE ELECTRONICS IMPROVISATIONS

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4/8/2023	Duo with Luke Rovinsky	Orchard Street, New Haven, CT
4/5/2023	Duo with Matthew Ostrowski	Shift, 411 Kent, Brooklyn, NYC
3/8/2023	Duo with Nina Guo	Century Bar, Philadelphia, PA
1/14/2023	With German Bringas, Don Malfon, Carlos Alegre, Alex Motta, Pablo Rubio Vargas, & Baal Inthy	Jazzorca, Mexico City
7/9/2022	Duo with Nina Guo	K77 Studio, Berlin
7/1/2022	Trio with Kyle Hutchins & Seth Davis	SKRONK, London, UK
5/19/2022	With Ángel Faraldo, Clara Lai, & Ferran Fages	Soda Acústic, Barcelona
4/4/2022	Duo with Ben Opie	Carnegie Mellon Univ. IDeATe Media Lab
3/17/2022	Duo with Inga Margrete Aas	MIR, Oslo, Norway
11/13/2021	Duo with Anne La Berge	Splendor Amsterdam, NL
7/29/2021	Trio with Alípio Neto & Ermanno Baron	American Academy in Rome, Italy
5/20/2021	Duo with Fabrizio Spera	American Academy in Rome, Italy
1/18/2020	Duo with Weston Olencki	Slate Arts, Chicago, IL
11/18/2019	Tonia Ko, Olivier Stankiewicz, & Benedict Taylor	Hundred Years Gallery, London, UK
11/14/2019	Trio with Anne La Berge & Yung-Tuan Ku	de Ruimte, Amsterdam, NL
10/21/2019	Option Series: Trio with Kyle Bruckmann & Macie Stewart	Experimental Sound Studio, Chicago, IL
10/9/2019	Que4 Radio: Duo with Emerson Hunton	Chicago, IL
10/4/2019	With Lauren Hayes, Daniel Wyche, & Sarah Plum	Slate Arts, Chicago, IL
8/8/2019	Duo with Tom Weeks	Center for New Music, San Francisco, CA
3/29/2019	With Katie Young, Dana Jessen, & Erica Dicker	Elastic Arts, Chicago, IL
3/22/2019	Duo with Tonia Ko	Impromptu Fest, Guarneri Hall, Chicago, IL
7/16/2018	Duo with Yung-Tuan Ku	Internationales Musikinstitut, Darmstadt, DE
7/5/2018	Duo with Yung-Tuan Ku	STEIM, Amsterdam, NL
10/27/2017	Duo with Tim Aubuchon	North Star Music Festival,
3/19/2017	Trio with Jacqueline Ulton & Scott Miller	Truman State Univ. Ars Electroacoustica, Minneapolis, MN
10/26/2016	Duo with Kyle Hutchins as Binary Canary	Fort Lewis College, Durango, CO
5/22/2016	Duo with Katie Condon (with silent film, Berlin)	MacPhail Center for Music, Minneapolis, MN
3/15/2016	Quartet with Jorrit Dijkstra, Nathan Hanson, & Scott Miller	Ars Electroacoustica, Reverie, Minneapolis, MN
1/17/2016	Trio with Dan Lippel & Scott Miller	Ars Electroacoustica, The Nicollet, Minneapolis, MN
11/15/2015	Trio with Elaine Evans & Scott Miller	Ars Electroacoustica, Honey, Minneapolis, MN
10/18/2015	Trio with Davu Seru & Scott Miller	Ars Electroacoustica, Honey, Minneapolis, MN
5/31/2015	Binary Canary album release show for $\operatorname{click/blow}$	Honey, Minneapolis, MN

As a regularly gigging performer, this list is necessarily incomplete. For a full list, please visit tedmooremusic.com/performances-appearances.

SOUND ART INSTALLATIONS using DIY ELECTRONICS

Aluminum Forest (2021) site-variable sound art installation of automated wind chimes

- Created in collaboration with composer Katherine Balch
- American Academy in Rome, Villa Aurelia, Rome, Italy, 5/20/2021
- SEAMUS 2021 Online Conference, 4/24/2021

attackSUSTAINrelease (2012) installation for suspended speakers, sound, water, & DMX lights

- New York University, New York, NY, February 2018
- Studio 300 Festival, Translyvania University, Lexington, KY, October 2017
- St. Paul Public Library, St. Paul, MN, 6/15/2013
- Hack Factory, Minneapolis, MN, 4/13/2013
- CCRMA Sound Art Installation Workshop, Stanford University, Palo Alto, CA, June 2012

INTERMEDIA PROJECTS & THEATER / DANCE collaborations

- 2021 Katherine Balch, composer: video design for forgetting
- 2019 University of Chicago: sound design for BODYTALK (dance production)
- 2018 University of Chicago: sound design for The Broken Jug (theater production)
- 2017 Walker Art Museum, Skewed Visions: conception, sound, & video artist for APPETITE
- 2017 Scott Miller, composer: video design for Solstice Orrery
- 2017 Cathrine Dalton, composer: sound design for Bluets
- 2016 Umbrella Collective Theater: music for June
- 2016 Eric F. Avery, performance artist: custom voice modulation software
- 2016 Blake Nellis, choreographer: music for Mad Minute
- 2015 Umbrella Collective Theater: sound design for These Are The Men
- 2014 Hannah Holman, theater artist: conception, sound, music, & production of Persephone
- 2014 Eric F. Avery perf. artist: sound design, music, & sound installation Minneapolis³
- 2014 Blake Nellis, choreographer: music for HWY 57 (dance production)
- 2014 Umbrella Collective Theater: sound design & music for Rapture
- 2014 Megan Clark, theater artist: sound design for Body House
- 2013 Umbrella Collective Theater: music director for Leaves
- 2013 Minnesota Fringe Festival: sound design for Rules of Love
- 2013 Umbrella Collective Theater: sound design & music for Rain Follows the Plow
- 2013 Umbrella Collective Theater: sound design for Emma Woodhouse
- 2012 Nautilus Music-Theater: sound design for The View From Here
- 2012 Freshwater Theater Company: sound design for Since the Kids are Gone
- 2012 Nautilus Music-Theater: sound design for John Cage's Europera 5
- 2012 Umbrella Collective Theater: sound design & music for Care Enough
- 2011 Nautilus Music-Theater: sound design for Joan of Arc

RECORDINGS & RELEASES

- 2023 Nuclear Sonic Fusion (Mother Brain Records): Live improvisations Alípio C. Neto & Ermanno Baron
- 2022 Live In London (Mother Brain Records): Live improvisations with Kyle Hutchins and Seth Davis
- 2022 #What2020SoundsLike: HOCKET piano duo performs apsis ii for piano four hands and tape
- 2022 Live at The Black Dog (Avid Sound Records): improvisations with Hanson, Hutchins, & Miller
- 2021 Banana Split (Noise Pelican Records): improvisations w/ Kyle Hutchins as Binary Canary
- 2021 Make Noise Mayanmar 2: improvisation w/ Kyle Hutchins as Binary Canary & Alex Christie
- 2021 still motion (Sideband Records): featuring still motion
- 2020 bruit (Carrier Records): duo & trio improvisations featuring Ted Moore with collaborators
- 2020 fragile: features collaboration track with Pincushioned Duo
- 2020 Ripple Effects (UChicago Arts): featuring the curve is exponential for carillon & tape
- 2019 iterative systems (Carrier Records): improvisations w/ Kyle Hutchins as Binary Canary
- 2018 FEATHERMUCKER (AVID Sound Records): featuring guitar & voice duo The Dream Songs Project
- 2017 BC+1 (AVID Sound Records): trio improvisations featuring Binary Canary & guests
- 2017 Raba (New Focus Recordings): includes video design for Scott Miller's tape composition Solstice Orrery
- 2016 Gilgamesh & Enkidu (Ravello Records): string quartet & electronics
- 2015 click/blow (Avid Sound Records): improvisations w/ Kyle Hutchins as Binary Canary
- 2015 History is Going to Change (Avid Sound Records): featuring leviathan, bass clarinet & electronics
- 2014 Interactions (Avid Sound Records): featuring deepities, saxophone & flute, recorded by AVIDduo

WRITING, PUBLICATIONS, & CONFERENCE PAPERS

2023 "Serge Modular Archive Instrument (SMAI): Bridging Skeuomorphic & Machine Learning Enabled Interfaces"	NIME 2023 Proceedings
2022 "FluCoMa for Pedagogues"	A guide to teaching FluCoMa
2022 "Expression, Collaboration, and Intuition"	Wet Ink Archive No. 6
2022 "Architecture about Dancing: Creating a Cross Environment, Cross Domain Framework for Creative Coding Musicians" (Co-Author)	Psychology of Programming Interest Group
2021 "Polynomial Functions in Zuraj's Changeover"	Perspectives of New Music Vol. 59 No. 1
2021 "Human and Artificial Intelligence Alignment: AI as Musical Assistant and Collaborator"	PhD Research Univ. of Chicago

RESEARCH PRESENTATIONS

RESE	ARCH FRESENTATIONS	
2023	Open Music Initiative: Serge Modular Archive Instrument (SMAI): Archiving and Performing Vintage Sound Space	Yale University
2023	SEAMUS: Serge Modular Archive Instrument (SMAI): Archiving and Performing Vintage Sound Space	New York University
2023	Music Techology Pedagogy Summit: Making Machine Learning Musical: Reflections on a Year of Teaching FluCoMa	Westminster College, Salt Lake City, Utah
2022	Creative Coding Lab Symposium	Univ. of Huddersfield
2022	Workshop Leader: International Computer Music Conference (ICMC): Teaching Critical Machine Listening and Machine Learning with FluCoMa	Univ. of Limerick, Ireland
2022	Unsupervised Conference: Enabling Creativity with Data Science and Machine Learning for Techo-Fluent Musicians	RNCM & Univ. of Manchester, Manchester, UK
2022	PHONOS Foundation: Enabling Creativity with Data Science and Machine Learning for Techo-Fluent Musicians	Universitat Pompeu Fabra, Barcelona
2022	Society for Electroacousic Music in the United States (SEAMUS): Enabling Creativity with Data Science and Machine Learning for Techo-Fluent Musicians	Western Michigan Univ.
2021	Digital Media Workshop: Enabling Creativity with Data Science and Machine Learning for Techo-Fluent Musicians	Univ. of Chicago
2021	Music in the Information Age: Traveling Salesperson Problem Algorithms for Gesture, Phrase, and Form Generation	Univ. of Calgary
2020	Talking Free Music	Virginia Tech Univ./ Rowan Univ.
2020	CHIMEFest 2020: Interference Patters: analysis of interacting feedbacks in "hollow"	Univ. of Chicago
2020	Spatial Music Workshop Reunion: Non-negative Matrix Factorization for Spatial Music Composition	Virginia Tech Univ.
2019	FluCoMa Plenary Session: Preserving User-Defined Expression through Dimensionality Reduction	Univ. of Huddersfield
2019	Digital Media Workshop: Machine Learning Applications for Live Computer Music Performance	Univ. of Chicago
2019	CHIMEFest 2019: Approaches to Live Performance & Composition with Machine Learning & Music Information Retrieval Analysis	Univ. of Chicago

2016	Performance & Lecture: Software Design for Expressive Laptop Improvisation	Fort Lewis College, Durango, CO
2016	Performance & Lecture: Software Design for Expressive Laptop Improvisation	Univ. of North Texas
2014	Performance & Lecture: Software Design for Expressive Laptop Improvisation	Univ. of Wisconsin La Cross

selected $\mathbf{SOFTWARE}$ projects & collaborations

 ${\it code\ available\ on\ github.com/tedmoore.}$

2022	$\begin{tabular}{ll} Serge\ Modular\ Archive\ Instrument\ in\ collaboration\ with\ Jean\ Brazeau\ at\ Simon\ Frasier\ University\ (SuperCollider/C++) \end{tabular}$
2022	$\mid DJII$ improvisation software commissioned by improviser Dana Jessen for incorporating in her performance practice (SuperCollider)
2019	Music Information Retrieval toolkit (SuperCollider)
2017	Live video and audio sampler for live performance (used in my composition $still\ motion$ and other performances) (C++)
2017	Voice Modulator commissioned by Eric F. Avery for his original production <i>The Life</i> and Death of Eric F. Avery (SuperCollider)
2016	$\label{thm:microtonal} \textit{Microtonal Keyboard} \ \text{Commissioned by composer Katherine Balch (SuperCollider)}$
2012 - Present	Module Tensor (Live Laptop Improvisation Instrument, SuperCollider)

FESTIVALS, CONFERENCES, & WORKSHOPS

2023	Society for Electroacoustic Music in the United States (SEAMUS)	New York University
2023	Performing Media Festival	Indiana University South Bend
2023	Line Upon Line Winter Festival	Austin, TX
2022	New Music + Technology Festival	Virginia Tech Univ.
2022	IRCAM Forum	NYU & Columbia Univ.
2022	Researcher: Unsupervised Conference	RNCM & Univ. of Manchester
2022	Researcher: International Computer Music Conference (ICMC)	Univ. of Limerick, Ireland
2022	Researcher: Society for Electroacousic Music in the United States	Western Michigan Univ.
2022	Electric Spring	Univ. of Huddersfield
2021	Southwest Electronic Music Festival	Arizona State Univ.
2021	EAR TAXI FESTIVAL	Chicago, IL
2021	TURN UP Multimedia Festival	Univ. of Arizona
2021	ilSuono Contemporary Music Week	Città di Castello, Italy
2021	Earth Day Art Model	Indiana UnivPurdue Univ.
2021	SEAMUS 2021 Online Conference	
2021	BEAST FEaST	University of Birmingham
2020	Charlotte New Music	Charlotte, NC
2020	Victoria Bach Festival	Victoria, TX
2020	Director: CHIMEFest: CIRCULATIONS	Univ. of Chicago
2019	Neural Networks for Music	Stanford University (CCRMA)
2019	South by Southwest: Line Upon Line performs tap	Austin, TX
2019	New Music Chicago Impromptu Fest	Chicago, IL
2019	MOXsonic	Warrensburg, MO
2019	N_SEME	University of Virginia
2019	Line Upon Line Winter Composers Festival	Austin, TX
2019	CHIMEFest	Univ. of Chicago
2018	SPLICE Festival	Bowling Green, OH

2018	Western Michigan University	Kalamazoo, MI
	Pittsburgh New Music Festival	Pittsburgh, PA
	Spatial Music Workshop at The Cube	Virginia Tech Univ.
2018	World Saxophone Congress	Zagreb, Croatia
	SPLICE Festival	Bowling Green State Univ.
	Omaha Under the Radar	Omaha, NE
	New York City Electroacoustic Music Festival	NYC, NY
2018	Darmstadt Open Space: Internationale Musikinstitut Darmstadt	Darmstadt, Germany
2018	Music Information Retrieval Workshop	Stanford University (CCRMA)
2018	BEAMS Marathon Festival	Brandeis University
	CHIMEFest	Univ. of Chicago
	University of Chicago Carillon Festival	Univ. of Chicago
	NUNC3	Northwestern Univ.
	MOXsonic	Warrensburg, MO
	Precarious Sounds // Sounding Sanctuary	New York Univ.
2017	Iowa Composers Forum Festival	Decorah, IA
	Society for Electroacoustic Music in the United States	St. Cloud, MN
	North Star Music Festival	Truman State Univ.
	Installation Artist: Studio 300 Digital Art & Music Festival	Lexington, KY
2017	Lipa Festival	Ames, IA
	Reembodied Sound: Transducer Conf.	Spectrum, NYC
	Root Signals	Georgia Southern Univ.
2016	NYC Electroacoustic Music Festival	New York, NY
2016	North American Saxophone Alliance	Texas Tech Univ.
2016	American Composers Forum 2016 Showcase	St. Paul, MN
	Binary Canary at New Horizons Music Festival	Truman State Univ.
2015	Zeitgeist New Music Cabaret	St. Paul, MN
	Electroacoustic Barn Dance	Fredericksburg, VA
	Luther College Composition Festival	Luther College
2014	Northern Spark Festival	Minneapolis, MN
	New Horizons Music Festival	Truman State, Univ.
	Zeitgeist New Music Cabaret	St. Paul, MN
	Minnesota Fringe Festival	Minneapolis, MN
2013	New Horizons Music Festival	Truman State Univ.
2013		St. Paul, MN
2013		Eastern Kentucky Univ.
	TC Make Maker Faire	Minneapolis, MN
2013		Clarke Univ.
2012		Berkeley, CA
2012	Sound Art Installations	Stanford University (CCRMA)
2011	Perceptual Audio Coding	Stanford University (CCRMA)
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AUDIO ENGINEERING & studio work

This audio engineering work is in addition to the audio engineering done in my own creative practice and documentation.

2022	Technical Director of Spatial Audio: The William Blake Cycle in The Cube at the New Music + Technology Festival	Virginia Tech Univ.
2020	Technical Director: CHIMEFest	Univ. of Chicago
2020	Mix Engeineer: arb (Carrier Records) duo album by bassoonist Ben Roidl-Ward & clarinetist Zach Good	Chicago, IL
2020	$Mix\ Engeineer:\ DIET\ OF\ ELECTRIC\ WORMS$ (Avid Sound Records) saxophonist Kyle Hutchins & electronicist Eric Lyon	Blacksburg, VA
2020	Technical Assistance: MUSIC'S OVER: Listening with Peter Ablinger festival, Wet Ink Ensemble & Aperiodic Ensemble	Chicago, IL
2020	$Assistant\ Recording\ Engineer:\ Glossolalia\ /\ Lines\ on\ Black,\ WetInk\ Ensemble\ (Carrier\ Records)$	Chicago, IL
2019	Recording Engineer: Spaces Inside Spaces concert with ~Nois Saxophone Quartet	Univ. of Chicago
2018 - 2020	$Recording\ Engineer\colon$ Rehearsals of the Grossman Ensemble	Univ. of Chicago
2018	Assistant Technical Director: CHIMEFest	Univ. of Chicago

$\textbf{WORKSHOP INSTRUCTION:} \ \textit{Machine Learning for Music Making using FluCoMa}$

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2023 1 Day Worksl	ı v	Manhattan, NY
2023 1 Day Worksl	- ·	Troy, NY
2023 1 Day Worksl		Mahwah, NJ
2023 5 Day Worksl	hop University of Pennsylvania	Philadelphia, PA
2023 1 Day Worksl	hop Music Hackspace: De-Mix Audio with No Matrix Factorization	on-negative London, UK (online)
2023 1 Day Worksl	hop Music Hackspace: Unsupervised Machine	Learning London, UK (online)
2022 1 Day Worksl	hop Music Hackspace: Neural Networks in Fl	uCoMa London, UK (online)
2022 1 Day Worksl	hop Music Hackspace: Intro to FluCoMa	London, UK (online)
2022 2 Day Worksl	hop Catalyst & Technische Universität	Berlin, DE
2022 1 Day Worksl	hop International Computer Music Conference	e (ICMC) Univ. of Limerick, Ireland
2022 2 Day Worksl	hop University of Sussex	Brighton, UK
2022 2 Day Worksl	hop Columbia University	New York, NY
2022 3 Day Worksl	hop University of Pennsylvania	Philadelphia, PA
2022 2 Day Worksl	hop Harvestworks	New York, NY
2022 1 Day Worksl	hop Red Room	Baltimore, MD
2022 2 Day Worksl	hop Peabody Institute at Johns Hopkins Univ	versity Baltimore, MD
2022 2 Day Worksl	hop Carnegie Mellon University	Pittsburgh, PA
2022 5 Day Worksl	hop NOTAM	Oslo, NO
2022 2 Day Worksl	hop UC San Diego	San Diego, CA
2022 2 Day Worksl	hop University of Washington	Seattle, WA
2022 1 Day Worksl	hop University of Victoria	Victoria, BC
2021 2 Day Worksl	hop New England Conservatory	Boston, MA
2021 1 Day Worksl	hop Massachusetts Institute of Technology	Boston, MA
2021 1 Day Worksl	hop Harvard University	Boston, MA
2021 1 Day Worksl	hop Berklee College of Music	Boston, MA
2021 1 Day Worksl	hop Princeton University	Princeton, NJ
2021 3 Day Worksl	hop McGill University (CIRMMT)	Montreal, QC
2021 5 Day Worksl		Utrecht, NL
2021 1 Day Worksl	hop Arizona State University	Phoenix, AZ
2021 1 Day Worksl	hop University of Chicago	Chicago, IL
2021 1 Day Worksl	hop School of the Art Institute of Chicago	Chicago, IL
2021 1 Day Worksl	hop The Walden School	Online

GUEST LECTURES

2023 Composition Seminar	Yale University
2023 Artificial Intelligence & the Music Industry	Univ. of the Highlands & Islands, Perth, Scotland
$2022 \mid SuperCollider \& FluCoMa$	Yale University
2022 Composition Seminar	Virginia Tech Univ.
2022 Composition Seminar	UC San Diego
2022 Composition Seminar	University of Victoria, British Columbia
2021 Presentation of my creative work with the FluCoMa toolkit	Columbia University & Bell Labs

2021	Presentation of my creative work with the FluCoMa toolkit	Arizona State Univ.
2021	Composition Seminar	New York University
2021	Composition Seminar	DePaul University
2021	Music and AI	Univ. of Chicago
2021	Featured Composer: Presentation to Composition Fellows of the Summer Institute for Contemporary Performance Practice (SICPP)	New England Conservatory
2018	Composition Seminar	Western Michigan Univ.
2017	Composition Seminar	Truman State University
2014	Composition Seminar	McNally Smith College of Music
2014	Composition Seminar & SuperCollider Workshop	Coe College
2013	Composition Seminar & SuperCollider Workshop	Truman State University

COMMUNITY involvement & SERVICE

2022	Adjudicator: Score Follower: Spring 2022 Call for Works	
2020	Symposium Director: CIRCULATIONS: Symposium on Live Audio Feedback in Art	Univ. of Chicago
2019 - 2021	$Alpha$ $Tester$: Fluid Corpus Manipulation Research Project	Univ. of Huddersfield
2019	Concert Producer & Spatial Audio Director: Spaces Inside Spaces	Chicago, IL
2019	Consultant & Co-Author: American Composers Forum NextNotes Lab Toolkit	St. Paul, MN
2018	Consultant: Mayfield School District: Rhythm Pedagogy Workshop	Cleveland, OH
2017 - Present	Advisory Board: 113 Composer Collective	Minneapolis, MN
2015 – 2017	Curator, Producer, & Laptop Improviser: Ars Electroacoustica concert series: avant-improv featuring electronic & acoustic instruments	Minneapolis, MN
2015 - 2017	$ \ \textit{Composer Mentor} \colon \texttt{American Composers Forum NextNotesLab}$	St. Paul, MN
2016	Curator & Producer: LoSo concert	St. Paul, MN
2013 - 2016	$ \ \textit{Co-Artistic Director} : \ \text{Spitting Image Composer Collective} \\$	Twin Cities, MN
2015	\mid Curator & Producer: push $/$ bend $/$ pull concert series	Twin Cities, MN
2014	Curator & Producer: The Hear & Now concert series	Twin Cities, MN

REFERENCES

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Anne La Berge Flutist, Improviser, Composer, Amsterdam, The Netherlands email: alb@annelaberge.com **Kyle Hutchins** Instructor of Saxophone, Virginia Tech University email: jkhutch@vt.edu phone: (540) 231-3907 List of MUSIC & MEDIA COMPOSITIONS saccades (2022) saxophone, electronics, tape, & video $\sim 16:00$ - Olly Sellwood, El Sótano de Vacas Verdes, Mexico City, Mexico, 1/12/2023 - Olly Sellwood, CRASHBOX, Austin, TX, 1/6/2023 - Olly Sellwood, MISE-EN_PLACE, Brooklyn, NY, 1/4/2023 sine (2022) multichannel audio $\sim 40:00$ - Commissioned by the PHONOS Foundation - PHONOS Foundation, Universitat Pompeu Fabra, Barcelona, ES, 5/20/2022 lacunae (2021) chamber ensemble & tape ~8:00 - Composed for Wet Ink Ensemble for the EAR TAXI FESTIVAL 2021 - Wet Ink Ensemble, EAR TAXI FESTIVAL, Chicago, IL, 10/2/2021 noise/gate (2021) contrabass & tape $\sim 7:30$ - Commissioned by Ensemble Suono Giallo for ilSUONO 2021 - Ensemble Suono Giallo, Città di Castello, 7/29/2021 quartet (2021) flute, cello, piano, percussion, & video processing $\sim 11:00$ - Commissioned by the [Switch~ Ensemble] for the 2021 SEAMUS Conference - Performing Media Festival, Indiana University South Bend, 3/10/2023 - IRCAM Forum, NYU/Columbia Univ., 9/30/2022 - International Society for Music Information Retrieval (ISMIR) Conference 2021, Online, 11/11/2021 - The [Switch~ Ensemble], SinusTon Festival, Magdeburg, DE, 10/30/2021 - The [Switch~ Ensemble], SEAMUS, Streamed Concert, 4/24/2021 triangle (2020) string quartet & tape $\sim 3:00$ - Commissioned by National Sawdust for their Digital Discovery Festival - Selected for Score Follower - Earth Day Art Model, Streamed Event, 4/22/2021 - JACK Quartet, National Sawdust, Streamed Concert, 12/11/2020 apsis ii (2020) piano four hands & tape $\sim 1:30$ - Commissioned by HOCKET piano do as part of their #What2020SoundsLike project - Earth Day Art Model, Streamed Event, 4/22/2021 - HOCKET, internet series premiere, 7/8/2020 for line upon line (2020) video sampling $\sim 1:30$ - Commissioned by Line Upon Line Percussion

- TURN UP Multimedia Festival, Univ. of Arizona, 5/1/2021
- Earth Day Art Model, Streamed Event, 4/22/2021
- Featured in Victoria Bach Festival, 6/9/2020
- Internet series premiere, 5/6/2020

hold (2020) tape $\sim 4:30$

- Commissioned by Chicago Civic Orchestra for their 100th Anniversary Live Stream - BEAST FEaST, University of Birmingham, 4/24/2021 - Chicago Civic Orchestra, Internet Premiere, 3/29/2020 shear (2020) chamber concerto for flutist Dalia Chin - Performance cancelled due to COVID-19 crunch (2019) violin, bassoon, & tape $\sim 18:00$ - Commissioned by violinist Erica Dicker & bassoonist Dana Jessen - Erica Dicker & Dana Jessen, The Walden School, Dublin, NH, July 2019 - Erica Dicker & Dana Jessen, Constellation, Chicago, IL, 3/31/2019 where is where we are (2019) spatialized saxophone quartet, multichannel audio, & DMX lighting $\sim 10:00$ - Nois Saxophone Quartet, Hairpin Arts Center, Chicago, IL, 4/12/2019 squall (2019) instrument & tape $\sim 10:00$ - Commissioned by trumpeter Evan Fowler - Hypercube (Erin Rogers, saxophone version), Charlotte New Music, Streamed Concert, 11/20/2020 tap (2019) percussion trio, tape, DMX lighting, & video $\sim 10:00$ - Commissioned by Line Upon Line Percussion for their Winter Composer Festival - Curated selection for Score Follower - Line Upon Line, Hochschule für Musik, Freiburg, DE, 11/8/2019 - Line Upon Line, City University, London, UK, 11/5/2019 - Line Upon Line, South by Southwest, Austin, TX, 3/14/2019 - Line Upon Line, First Street Studio, Austin, TX, 1/12/2019 column (2019) saxophone, 140 channel audio, tape, & DMX lights $\sim 22:00$ - Created for The Cube at Virginia Tech - Kyle Hutchins, Virginia Tech University, Blacksburg, VA, 2/4/2019 - Kyle Hutchins, Virginia Tech University, Blacksburg, VA, 8/9/2018 $\sim 7:00$ patina (2019) orchestra - Recorded by Chicago Civic Orchestra, 2/5/2019 (performance cancelled due to weather) circle (2018) string quartet, multichannel audio, DMX lighting, feedback PVC tubes $\sim 24:00$ - Finalist in 2018 Mivos Quartet Kantor String Quartet Composition Prize - Spektral Quartet, CHIMEFest, Chicago, IL, 4/5/2018 feed (2018) bassoon, live processing, no-input mixer, tape, & DMX lights $\sim 19:30$ - Structured improvisation created in collaboration with bassoonist Ben Roidl-Ward - EAR TAXI FESTIVAL, Constellation, Chicago, IL, 10/3/2021 - Ars Electroacoustica, Elastic Arts, Chicago, IL, 4/9/2019 - Experimental Sound Studio, Oscillations Series, Chicago, IL, 11/2/2018 - Elastic Arts, Chicago, IL, 3/13/2018 **shadow** (2018) saxophone, no-input mixer, & DMX lights $\sim 6:00$ - Structured improvisation created in collaboration with saxophonist Kyle Hutchins - Frequency Series, Constellation, Chicago, IL, 11/3/2019 - Ted Moore (solo version), Omaha Under the Radar, Omaha, NE, 7/27/2018

 $\sim 15:00$

hollow (2017) feedback saxophone & feedback PVC tubes

- Structured improvisation created with saxophonist Kyle Hutchins
- International Computer Music Conference (ICMC), Santiago, Chile, 7/27/2021
- Frequency Series, Constellation, Chicago, IL, 11/3/2019
- SPLICE Festival, Bowling Green State University, Bowling Green, OH, 11/8/2018
- Internationales Musikinstitut Darmstadt, Darmstadt, Germany, 7/16/2018
- Zagreb Academy of Music, Zagreb, Croatia, 7/12/2018
- NUNC3, Northwestern University, Evanston, IL, 4/21/2018
- Fresh Oysters Performance Research, Minneapolis, MN, 5/26/2017

Solstice Orrery (2017) video design for Scott Miller's eponymous tape composition

 $\sim 10:30$

- Released as video album on New Focus Recordings, 3/16/2018
- Studio Z, St. Paul, MN, 3/10/2018
- North Star Music Festival, Kirksville, MO, 10/28/2017
- Lipa Festival, Ames, IA, 9/27/2017

still motion (2017) percussionist & live video sampling

 $\sim 14:00$

- Commissioned by percussionst Patti Cudd & MacPhail Center for Music
- Appears on album on Patti Cudd's album "Still Motion" (Sideband Records)
- Josh Perry, Boston Conservatory, Boston, MA, 2/26/2023
- Josh Perry, Emory University, Atlanta, GA, 10/19/2022
- MISE-EN Ensemble (Josh Perry), New York, NY, 5/5/2022
- MISE-EN Ensemble (Josh Perry), New York, NY, 12/2/2021
- Scot Deal, Earth Day Art Model Festival, 4/22/2021
- MISE-EN Ensemble (Josh Perry), New York, NY, 8/18/2020
- Talea Ensemble (Matt Gold), Flea Theater, New York, NY, 6/9/2019
- Matt Gold, Yale Univ. Center for Collaborative Arts & Media, New Haven, CT, 2/14/2019
- Patti Cudd, Univ. of Wisconsin Whitewater, 2/3/2019
- Patti Cudd, Northwestern Univ., Evanston, IL, 2/1/2019
- Patti Cudd, NYC Electroacoustic Music Festival, Abrons Art Center, New York, NY, 7/18/2018
- Matt Gold, The Walden School, Dublin, NH, 6/16/2018
- Matt Gold, Mass MoCA, North Adams, MA, 6/9/2018
- John Corkill, Univ. of Chicago, 11/5/2017

still motion b (2017) mouth & live video sampling

 $\sim 14:00$

- Ted Moore, New Music + Technology Virginia Tech University, Blacksburg, VA, 12/6/2022
- Ted Moore, Western Michigan Univ., Kalamazoo, MI, 11/28/2018
- Ted Moore, Omaha Under the Radar, Omaha, NE, 7/27/2018
- Ted Moore, MOXSonic, Warrensburg, MO, 3/10/2018
- Ted Moore, New Horizons Music Festival, Kirksville, MO, 10/28/2017

the curve is exponential (2017) carillon & tape

 $\sim 28:00$

- Commissioned by University of Chicago Carillonneur Joey Brink for the University's 75th Anniversary Nuclear Commemorations Ceremony
- Joey Brink, Rockefeller Chapel, Chicago, IL, 5/26/2018
- Joey Brink, Rockefeller Chapel, Chicago, IL, 12/2/2017

APPETITE (2017) Experimental theater work for feedback video, feedback sound, & dancer

 $\sim 25:00$

- Created in collaboration with Skewed Visions Theater Company Director, Charles Campbell
- Walker Art Center, Minneapolis, MN, 11/25/2017
- Fresh Oysters Performance Research, Minneapolis, MN, 5/26/2017

feedback V (2017) any number of performers with small sound-making objects	~10:00
- Virginia Tech New Music Ensemble, November 2017	
${\it Transliteration~Series}$ (2017-) book / score of short tape compositions	
feedback vii: speak, contain (2017) wind quintet, feedback, & tape - Commissioned by The Walden School & Splinter Reeds Wind Quintet	~8:30
 Imani Winds, University of Chicago, Chicago, IL, 5/12/2018 Splinter Reeds, The Walden School, Dublin, NH, 7/14/2017 	
only that there's a secret (2016) vocal quartet, spatial audio, & video design	~8:00
 Commissioned by Quince Contemporary Vocal Ensemble & The Walden School Quince Contemporary Vocal Ensemble, The Walden School, Dublin, NH, 6/22/2016 	
\boldsymbol{APSIS} (2016) spatialized chamber ensemble, spatial audio, live electronics, & video	$\sim 23:00$
- Strains New Music Ensemble, Society for Electro-Acoustic Music in the United States, St. Cloud, MN, $4/21/2017$	
- Strains New Music Ensemble, MacPhail Center for Music, Composition Faculty Concert, Minneapolis, MN, 9/16/2016	
- Strains New Music Ensemble, LoSo, St. Paul, MN, 3/5/2016	
it teaches us that it doesn't exist (2016) feedback cymbal	~13:00
 Commissioned by percussionist Jeremy Johnston Ted Moore, EAR TAXI FESTIVAL, Constellation, Chicago, IL, 10/3/2021 Ted Moore, Frequency Series, Constellation, Chicago, IL, 11/3/2019 Ted Moore, Fulcrum Point New Music, Chicago, IL, 9/25/2019 Ted Moore, Flea Theater, New York, NY, 6/9/2019 Ted Moore, Impromptu Fest, Chicago, IL, 3/22/2019 Ted Moore, BEAMS Festival, Brandeis Univ., 3/16/2018 Ted Moore, Omaha Under the Radar, Omaha, NE, 7/27/2018 Ted Moore, North Start Music Festival, Kirksville, MO, 10/28/2017 Ted Moore, Reembodied Sound: Transducer Conf., Spectrum, New York, NY, 4/8/2017 Ted Moore, Iowa Composers Forum, Decorah, IA, 2/25/2017 Ted Moore, Georgia Southern University, Statesboro, GA, 2/10/2017 Ted Moore, University of Wisconsin, La Cross, WI, 11/10/2016 Jeremy Johnston, First Lutheran Church, White Bear Lake, MN, 11/6/2016 Jeremy Johnston, Pearson Lakes Art Center, Okoboji, IA, 10/20/2016 Jeremy Johnston, Bethlehem Lutheran Church, Two Harbors, MN, 10/16/2016 	
$\boldsymbol{FEATHERMUCKER}$ (2015) mezzo-soprano, guitar, feedback guitar, & tape	$\sim 45:00$
 Commissoined by The Dream Songs Project The Dream Songs Project, EAR TAXI FESTIVAL, Chicago, IL, 10/3/2021 The Dream Songs Project, Pittsburgh Festival of New Music, Pittsburgh, PA, 9/8/2018 The Dream Songs Project, Khyber Pass Cafe, St. Paul, MN, 1/19/2017 The Dream Songs Project, Fallout Arts, Minneapolis, MN, 5/28/2016 The Dream Songs Project, Punk Ass Classical, Minneapolis, MN, 5/27/2016 The Dream Songs Project, American Composers Forum Showcase, St. Paul, MN, 4/14/2016 The Dream Songs Project, Dreamland Arts, St. Paul, MN, 1/24/2016 The Dream Songs Project, Plymouth Church, Mineapolis, MN, 1/23/2016 The Dream Songs Project, James J. Hill House, St. Paul, MN, 1/22/2016 	

thread fork thread (2015) alto flute, tenor saxophone, viola, & percussion $\sim 10:00$ - Commissioned by The Walden School & the International Contemporary Ensemble - Strains New Music Ensemble, Fallout Arts, Minneapolis, MN, 1/24/2016 - Strains New Music ensemble, Dreamland Arts, St. Paul, MN, 1/23/2016 - International Contemporary Ensemble, The Walden School, Dublin, NH, 7/10/2015 if two things... (2014) saxophonist, mezzo-soprano, & electronics $\sim 16:00$ - full title: if two things don't fit, but you believe both of them, thinking that somewhere, hidden, there must be a third thing that connects them - Commissioned by The Poem is Done Ensemble - Curated selection for Score Follower - There is no air in Space, Whatever Works Music Festival, Turku, Finland, 4/4/2019 - Alyssa Anderson & Ben Cold, MacPhail Center for Music, Minneapolis, MN, 9/16/2016 - The Poem is Done Ensemble, Zeitgeist New Music Cabaret, Studio Z, St. Paul, MN, 11/13/2015 - RenegadeEnsemble, Baroque Room, St. Paul, MN, 4/24/2015 - The Poem is Done Ensemble, Gamut Gallery, Minneapolis, MN, 11/1/2014 eclipse (2014) tenor saxophone, live processing, & live video $\sim 21:30$ - Commissioned by Skewed Visions Theater Company - Kyle Hutchins, Electroacoustic Barn Dance, Fredericksburg, VA, 11/14/2014 - Kyle Hutchins, Truman State University, Kirksville, MO, 10/25/2014 - Kyle Hutchins, University of Minnesota, Minneapolis, MN, 4/27/2014 - Kyle Hutchins, Skewed Visions Studio, Minneapolis, MN, 1/19/2014 samara (2014) string quartet & alto flute $\sim 8:30$ - Commissioned by Spektral Quartet & The Walden School - Spektral Quartet & flutist Tim Munro, The Walden School, Dublin, NH, 7/11/2014 Persephone (2014) music & sound design for live dance: chamber ensemble & live electronics $\sim 55:00$ - Created in collaboration with Choreographer & Theater Artist Hannah K. Holman - Tek Box Theater at Cowles Center, Minneapolis, MN, 12/4 - 12/6/2014 leviathan (2014) bass clarinet, multichannel audio, glass vases, & live electronics $\sim 18:30$ - Featured on bass clarinetist Sarah Porwoll-Lee's album, History is Going to Change, November 2015 - Sarah Porwoll-Lee, Univ. of Wisconsin La Cross, 4/10/2016 - Sarah Porwoll-Lee, Mound Westonka, MN, 12/11/2015 - Sarah Porwoll-Lee, Honey, Minneapolis, MN, 11/7/2015 - Sarah Porwoll-Lee, Slam Academy, Minneapolis, MN, 10/31/2015 - Sarah Porwoll-Lee, Honey, Minneapolis, MN, 6/8/2014 - Sarah Porwoll-Lee, Studio Z, St. Paul, MN, 6/6/2014 eyes may be impaired (2014) piano four hands & two percussionists $\sim 8:30$ - Commissioned by Yarn/Wire & The Walden School - Luther College, Decorah, IA, 10/9/2014 - Eastern Kentucky University, Richmond, KY, 10/19/2013

 $\sim 5:00$

- Yarn/Wire, The Walden School, Dublin, NH, 7/1/2012

- RenegadeEnsemble, Studio Z, St. Paul, MN, 5/4/2014

ice, water (2012) clarinet

deepities (2013) saxophone & flute	~8:00
 Commissioned by AVIDduo AVIDduo, Coe College, Cedar Rapids, IA, 3/18/2014 AVIDduo, Luther College, Decorah, IA, 3/17/2014 AVIDduo, Women's Club, Denton, TX, 2/7/2014 AVIDduo, University of Minnesota, Minneapolis, MN, 9/25/2013 AVIDduo, Studio Z, St. Paul, MN, 9/21/2013 	
is himself no more (2013) saxophone & live electronics	~8:00
 Commissioned by RenegadeEnsemble Kyle Hutchins, Coe College, Cedar Rapids, IA, 3/18/2014 Kyle Hutchins, Luther College, Decorah, IA, 3/17/2014 Kyle Hutchins, Studio Z, St. Paul, MN, 4/28/2013 Kyle Hutchins, American Composers Forum, St. Paul, MN, 4/16/2013 	
Gilgamesh & Enkidu (2013) string quartet, tape, & live electronics	~60:00
 Commissioned by The Cedar Cultural Center, Minneapolis, MN Enkidu Quartet, Zeitgeist New Music Cabaret, St. Paul, MN, 11/6/2014 Enkidu Quartet, Studio Z, St. Paul, MN, 6/5/2014 Endidu Quartet, St. Paul Library, St. Paul, MN, 11/25/2013 Enkidu Quartet, New Horizons Music Festival, Kirksville, MO, 11/2/2013 Enkidu Quartet, Cedar Cultural Center, Minneapolis, MN, 1/6/2013 	
$fiery\ walls\ (2012)$ trumpet & live electronics	~4:30
 Chris Goodchild, BEAST, Birmingham, UK, December 2019 Jim Sherry, MacPhail Center for Music, Minneapolis, MN, 2/4/2015 Jim Sherry, Clarke University, Dubuque, IA, 4/12/2013 Erik Mahon, Studio Z, St. Paul, MN, 5/1/2012 	
do you? (2008) solo percussion	~5:30
 Camden Heimerman, Luther College, Decorah, IA, 1/10/2021 Leif Larson, Luther College, Decorah, IA, 11/2/2014 New Music Forum, Trinity Chapel, Berkeley, CA, 6/23/2012 	