Ted Moore

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Composer, Improviser, Intermedia Artist, Educator

EDUCATION

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) instigates musical uses of data science and machine learning for computer composers, creative coders, and digital artists. My research enables techno-fluent musicians to use data science and machine learning for creative music making within their chosen creative coding environment (Max, SuperCollider, and Pure Data). Through workshop teaching, commissioning artists, and supporting creative users, my work on FluCoMa builds community around creative uses of machine learning.

AWARDS, HONORS, & RESIDENCIES

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

2022	PHONOS Foundation: sine, multichannel audio	Barcelona, ES
2022	Dana Jessen: DJII: Improvisation Software	Oberlin, OH
2021	Ensemble Suono Giallo: noise/gate, for double bass, tape, & video	Città di Castello, Italy
2021	[Switch~ Ensemble]: quartet, for flute, percussion, piano, cello, & video	New York, NY
2020	National Sawdust: triangle, for string quartet & tape	Brooklyn, NY
2020	HOCKET: apsis ii, for piano four hands & tape	Los Angeles, CA
2020	Line Upon Line: for line upon line, video	Austin, TX
2020	Chicago Civic Orchestra: hold, tape	Chicago, IL

2019	Dana Jessen & Erica Dicker: crunch, for bassoon, violin, & tape	New York, NY
2019	Evan Fowler: squall, for trumpet & tape	Iowa City, IA
2019	Line Upon Line: tap, for percussion trio, tape, lights, & video	Austin, TX
2019	Kyle Hutchins: column, for saxophone, HDLA, & lights	Virginia Tech Univ.
2017	Scott Miller: Solstice Orrery, video design	Minneapolis, MN
2017	Patti Cudd: still motion, percussion & live video sampling	Minneapolis, MN
2017	Joey Brink: the curve is exponential, carillon & tape	Univ. of Chicago
2017	Splinter Reeds & Walden School: feedback vii: speak, contain	Dublin, NH
2016	Quince Ensemble & Walden School: only that there's a secret	Dublin, NH
2016	LoSo: $APSIS$, for flute, cello, percussion, saxophone, electronics, & video	Minneapolis, MN
2016	Jeremy Johnston: it teaches us that it doesn't exist, for feedback cymbal	Minneapolis, MN
2015	Dream Songs Project: FEATHERMUCKER, for voice, guitar, & tape	Minneapolis, MN
2015	ICE & Walden School: thread fork thread, for flute, viola, perc., sax.	Dublin, NH
2015	The Poem is Done Ensemble: if two things, for voice, sax., & elec.	Minneapolis, MN
2014	Skewed Visions Theater: eclipse, for saxophone, electronics, & video	Minneapolis, MN
2014	Spektral Quartet & Walden School: samara, string quartet & alto flute	Dublin, NH
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: $Gilgamesh\ \mathcal{E}\ Enkidu,$ for string quartet & elec.	Minneapolis, MN
2012	RenegadeEnsemble: ice, water, for clarinet	Minneapolis, MN

selected LIVE ELECTRONICS IMPROVISATIONS

1/19/2023	with Luke Rovinsky	Never Ending Books, New Haven, CT
1/14/2023	with German Bringas, Don Malfon, Carlos Alegre, Alex Motta, Pablo Rubio Vargas, & Baal Inthy	Jazzorca, Mexico City
10/8/2022	Duo with Kyle Hutchins	Art Rat Studios, Roanoke, VA
7/10/2022	Duo with Nina Guo	Kühlspot Social Club, Berlin
7/9/2022	Duo with Nina Guo	K77 Studio, Berlin
7/1/2022	Trio with Kyle Hutchins & Seth Davis	SKRONK, New River Studios, London
6/18/2022	Trio with PA Tremblay & Emil Karlsen	AME, Huddersfield, UK
6/2/2022	Duo with Paul Keene	The Rose Hill, Brighton, UK
5/19/2022	Quartet with Ángel Faraldo, Clara Lai, & Ferran Fages	Soda Acústic, Barcelona
5/12/2022	Trio with Luis Erades & El Pricto	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
2/25/2022	Duo with Mark Hanslip	Electric Spring Univ. of Huddersfield
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	Quartet with 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

11/3/2019	Frequency Series: duo with Kyle Hutchins as Binary Canary	Constellation, Chicago, IL
10/21/2019	Option Series: Trio with Kyle Bruckmann & Macie Stewart	Experimental Sound Studio, Chicago, IL
10/4/2019	Duos with Lauren Hayes, Daniel Wyche, & Sarah Plum	Slate Arts, Chicago, IL
9/23/2019	Duo with Weston Olencki	Arete, New York, NY
8/8/2019	Duo with Tom Weeks	Center for New Music, San Francisco, CA
5/2/2019	Quartet with Katie Young, Weston Olencki, & Matt Barbier	CHIMEFest, Chicago, IL
3/29/2019	Quartet with Katie Young, Dana Jessen, & Erica Dicker	Elastic Arts, Chicago, IL
3/22/2019	Impromptu Fest: Duo with Tonia Ko	Guarneri Hall, Chicago, IL
7/16/2018	Internationales Musikinstitut: Duo with Yung-Tuan Ku	Darmstadt, DE
7/5/2018	Duo with Yung-Tuan Ku	STEIM, Amsterdam, NL
10/27/2017	North Star Music Festival: Duo with Tim Aubuchon	Truman State Univ.
5/31/2017	Ars Electroacoustica: Quartet with Scott Miller, Nathan Hanson, & Kyle Hutchins	Black Dog Cafe, St. Paul, MN
4/20/2017	Society for Electroacoustic Music in the United States (SEAMUS): Quartet with Adam Zahller, Scott Miller, & Kyle Hutchins	Pickled Loon, St. Cloud, MN
11/4/2016	Ars Electroacoustica: Duo with Adam Zahller	Reverie, Minneapolis, MN
10/29/2016	Chamber Music Society: Duo as Binary Canary	Santa Fe, NM
10/27/2016	Duo with Kyle Hutchins as Binary Canary	University of New Mexico, Albuquerque, NM
10/26/2016	Duo with Kyle Hutchins as Binary Canary	Fort Lewis College, Durango, CO
10/24/2016	Duo with Kyle Hutchins as Binary Canary	Metro State Univ., Denver, CO
9/16/2016	Duo with bass clarinetist Sarah Porwoll-Lee	MacPhail Center for Music, Minneapolis, MN
3/20/2016	Ars Electroacoustica: Trio with Adam Zahller & Scott Miller	Honey, Minneapolis, MN
3/9/2016	Duo with Kyle Hutchins as Binary Canary	Univ. of North Texas, Denton, TX
1/17/2016	Ars Electroacoustica: Trio with Dan Lippel & Scott Miller	The Nicollet, Minneapolis, MN
5/31/2015	Binary Canary album release show for $click/blow$	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

selected $\mathbf{REVIEWS}$

BLOW UP Magazine (2023)	"radical, volcanic improv"
Chicago Classical Review (2021)	"the overall impression is a coherent, impressive one, conveying desiccation,
	desperation, but also glimmers of light"
Jazz Times (2019)	"alien soundscapes from some distant otherworldenigmatic and well worth
	probing"
Tone Shift (2019)	"far out (in space, of mind)something of future legenda sonic trip"
Downtown Music Gallery (2019)	"does indeed suggest the idea of algorithms gone haywire, of sounds and noise
	barely held in check"
I Care If You Listen (2017)	"frankly unsafe"
TC Daily Planet (2014)	"tip of the hat to Ted Moore's sound design, wonderfully creepy"
VitaMN (2104)	"an impressive achievement, both artistically and technically"

WRITING, PUBLICATIONS, & CONFERENCE PAPERS

2022	FluCoMa for Pedagogues	A guide to teaching FluCoMa
2022	Wet Ink Archive No. 6	"Expression, Collaboration, and Intuition"
2022	Psychology of Programming Interest Group Annual Meeting	Co-Author: "Architecture about Dancing: Creating a Cross Environment, Cross Domain Framework for Creative Coding Musicians"
2021	Perspectives of New Music Vol. 59 No. 1	"Polynomial Functions in Zuraj's Changeover"
2021	Research for PhD, Univ. of Chicago	"Human and Artificial Intelligence Alignment: AI as Assistant and Collaborator"

RESE	ARCH PRESENTATIONS	
2023	Invited Scholar: Music Techology Pedagogy Summit: Making Machine Learning Musical: Reflections on a Year of Teaching FluCoMa	Westminster College, Salt Lake City, Utah
2022	Workshop Leader: International Computer Music Conference (ICMC): Teaching Critical Machine Listening and Machine Learning with FluCoMa	Univ. of Limerick, Ireland
2022	Invited Scholar: Unsupervised Conference: Machine Listening and Machine Learning with $FluCoMa$	RNCM & Univ. of Manchester, Manchester, UK
2022	Featured Scholar: PHONOS Foundation: Creative Music Making with Machine Learning	Universitat Pompeu Fabra, Barcelona
2022	Invited Scholar: 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	Invited Scholar: Digital Media Workshop: Enabling Creativity with Data Science and Machine Learning for Techo-Fluent Musicians	Univ. of Chicago
2021	Invited Scholar: Music in the Information Age: Traveling Salesperson Problem Algorithms for Gesture, Phrase, and Form Generation	Univ. of Calgary
2021	Invited Scholar: FluCoMa Plenary Session	Univ. of Huddersfield
2020	Invited Scholar: FluCoMa Plenary Session	Univ. of Huddersfield
2020	Interviewed Improviser: Talking Free Music	Virginia Tech Univ./ Rowan Univ.
2020	Invited Scholar: CHIMEFest 2020: Interference Patters: analysis of interacting feedbacks in "hollow"	Univ. of Chicago
2020	Invited Scholar: Spatial Music Workshop Reunion: Non-negative Matrix Factorization for Spatial Music Composition	Virginia Tech Univ.
2019	Invited Scholar: FluCoMa Plenary Session: Preserving User-Defined Expression through Dimensionality Reduction	Univ. of Huddersfield

2019	Invited Scholar: Digital Media Workshop: Machine Learning Applications for Live Computer Music Performance	Univ. of Chicago
2019	Invited Scholar: CHIMEFest 2019: Approaches to Live Performance & Composition with Machine Learning & Music Information Retrieval Analysis	Univ. of Chicago
2016	Invited Scholar: Performance & Lecture Tour: Software Design for Expressive Laptop Improvisation (various colleges & universities)	Southwest US
2016	Invited Performer: Association for Technology in Music Instruction Conference	Albuquerque, NM

SOFTWARE

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	$\mid DJII \mid$ 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	Microtonal Keyboard Commissioned by composer Katherine Balch (SuperCollider)
2012 - Present	Live Laptop Improvisation Instrument (SuperCollider)

FESTIVALS, CONFERENCES, & WORKSHOPS

2023	Featured Artist: Line Upon Line Winter Festival	Austin, TX
2022	Featured Artist: New Music + Technology Festival	Virginia Tech Univ.
2022	Artist: 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	Invited Scholar: Society for Electroacousic Music in the United States	Western Michigan Univ.
2022	Featured Performer: Electric Spring	Univ. of Huddersfield
2021	Featured Performer: Southwest Electronic Music Festival	Arizona State Univ.
2021	Invited Composer: EAR TAXI FESTIVAL	Chicago, IL
2021	Invited Composer: TURN UP Multimedia Festival	Univ. of Arizona
2021	Invited Artist: ilSuono Contemporary Music Week	Città di Castello, Italy
2021	Invited Composer: Earth Day Art Model	Indiana UnivPurdue Univ.
2021	Invited Composer: SEAMUS 2021 Online Conference	
2021	Invited Composer: BEAST FEaST	University of Birmingham
2020	Invited Composer: Charlotte New Music	Charlotte, NC
2020	Featured Composer: 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	Invited Artist: New Music Chicago Impromptu Fest	Chicago, IL
2019	Invited Artist: MOXsonic	Warrensburg, MO
2019	Invited Artist: N_SEME	University of Virginia
2019	Selected Composer: Line Upon Line Winter Composers Festival	Austin, TX
2019	Invited Artist: CHIMEFest	Univ. of Chicago

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

AUDIO ENGINEERING & studio work

These engineering jobs are in addition to the extensive audio engineering done in my own creative work 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, Wet Ink Ensemble (Carrier Records)	Chicago, IL
2019	Recording Engineer: Spaces Inside Spaces concert with \sim Nois Saxophone Quartet	Univ. of Chicago
2018 - 2020	\mid Recording Engineer: Rehearsals of the Grossman Ensemble	Univ. of Chicago
2018	Assistant Technical Director: CHIMEFest	Univ. of Chicago

WORKSHOP INSTRUCTION: Machine Learning for Music Making using FluCoMa

		
2023 1 Day Workshop	Music Hackspace: Unsupervised Machine Learning	London, UK (online)
2022 1 Day Workshop	Music Hackspace: Neural Networks in FluCoMa	London, UK (online)
2022 1 Day Workshop	Music Hackspace: Intro to FluCoMa	London, UK (online)
2022 2 Day Workshop	Catalyst & Technische Universität	Berlin, DE
2022 1 Day Workshop	International Computer Music Conference (ICMC)	Univ. of Limerick, Ireland
2022 2 Day Workshop	University of Sussex	Brighton, UK
2022 2 Day Workshop	Columbia University	New York, NY
$2022 \mid 3$ Day Workshop	University of Pennsylvania	Philadelphia, PA
$2022 \mid 2$ Day Workshop	Harvestworks	New York, NY
$2022 \mid 1$ Day Workshop	Red Room	Baltimore, MD
$2022 \;\mid\; 2$ Day Workshop	Peabody Institute at Johns Hopkins University	Baltimore, MD
$2022 \mid 2$ Day Workshop	Carnegie Mellon University	Pittsburgh, PA
$2022 \mid 5$ Day Workshop	NOTAM	Oslo, NO
$2022 \mid 2$ Day Workshop	UC San Diego	San Diego, CA
$2022 \;\mid\; 2$ Day Workshop	University of Washington	Seattle, WA
$2022 \mid 1$ Day Workshop	University of Victoria	Victoria, BC
$2021 \mid 2$ Day Workshop	New England Conservatory	Boston, MA
2021 1 Day Workshop	Massachusetts Institute of Technology	Boston, MA
2021 1 Day Workshop	Harvard University	Boston, MA
2021 1 Day Workshop	Berklee College of Music	Boston, MA
2021 1 Day Workshop	Princeton University	Princeton, NJ
2021 3 Day Workshop	McGill University (CIRMMT)	Montreal, QC
$2021 \mid 5$ Day Workshop	Hogeschool voor de Kunsten	Utrecht, NL
2021 1 Day Workshop	Arizona State University	Phoenix, AZ
2021 1 Day Workshop	University of Chicago	Chicago, IL
2021 1 Day Workshop	School of the Art Institute of Chicago	Chicago, IL
2021 1 Day Workshop	The Walden School	Online

GUEST LECTURES

2023 Artificial Intelligence in Music Industry	Univ. of the Highlands & Islands, Perth, Scotland
2022 SuperCollider & FluCoMa	Yale University
2022 Composition Seminar	Virginia Tech Univ.
2022 Featured Creative Coder: Creative Coding Lab Symposium	Univ. of Huddersfield
2022 Composition Seminar	UC San Diego
2022 Composition Seminar	University of Victoria, British Columbia
$2021 \;\; \;\; \text{Presentation of my creative work with the FluCoMa toolkit}$	Columbia University & Bell Labs
2021 Composition Seminar	New York University
2021 Music and AI	Univ. of Chicago
2021 Machine Learning for Music Making	Arizona State Univ.
2021 Presentation of my creative work with FluCoMa toolkit	Arizona State Univ.

2021 Composition Seminar	DePaul University
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
2016 Guest Lecture & Performance: Software Design for Expressive Laptop Improvisation	Univ. of North Texas
2014 Composition Seminar	McNally Smith College
2014 Composition Seminar and SuperCollider Workshop	Coe College
2014 Guest Lecture & Performance: Software Design for Expressive Laptop Improvisation	Univ. of Wisconsin La Cross
2013 Composition Seminar and SuperCollider Workshop	Truman State University

${\bf COMMUNITY} \ {\bf involvement} \ \& \ {\bf SERVICE}$

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	$ \ \textit{Concert Producer \& Spatial Audio Director} \colon \mathbf{Spaces \ Inside \ Spaces}$	Chicago, IL
2019	$\begin{array}{cccc} \textit{Consultant & Co-Author:} & \text{American Composers Forum} \\ & \text{NextNotes Lab Toolkit} \end{array}$	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	$ \ Composer \ Mentor \colon \text{American Composers Forum NextNotesLab}$	St. Paul, MN
2016	Curator & Producer: LoSo concert	St. Paul, MN
2013 - 2016	Co-Artistic Director: Spitting Image Composer Collective	Twin Cities, MN
2015	\mid Curator & Producer: push $/$ bend $/$ pull concert series	Twin Cities, MN
2014	$ \ \textit{Curator \& Producer: The Hear \& Now concert series}$	Twin Cities, MN

2022	Primary Instructor: Computer Music & Multimedia I Virginia Tech Univ. - Introduction to instrument design & performance with Max
	- Mix of music majors and computer science majors
2020	Primary Instructor: Elec. Music I: Composing with Sound Univ. of Chicago
	- Musique concrète, modular synthesis, and Reaper DAW
2017 - 2020	Academic Dean: The Walden School (Summer Music Program) Dublin, NH
	- Curriculum development
	- Train faculty in pedagogy and course design
	- Administration of school-wide pedagogical events

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 Music composition including various popular styles Audio production including recording techniques, and hardware & software studio tools Ableton Live DAW 	Minneapolis, MN
2014 – 2017	 Composition Faculty: MacPhail Center for Music (Community Music School) Individual and class instruction in the materials & design of music in various styles including classical & popular music All ages, beginner to advanced levels 	Minneapolis, MN
2015 - 2016	 Music Instructor: Integrated Arts Academy (High School) "Rock Band" Class: music fundamentals, instrumental instruction (guitar, bass guitar, keyboards, singing), and small group performance (trios & quartets) of popular music repertoire 	Chaska, MN
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 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 	Minneapolis, MN
2014 - 2015	Music Instructor: St. Paul High School of Recording Arts - Invidual 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 ASSISTANT 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.

REFERENCES

Sam Pluta	Associate Professor of Computer Music, Peabody Inst. of Johns Hopkins Univ. email: spluta1@jhu.edu phone: (646) 544-6149
Pierre Alexandre Tremblay	Professor, University of Huddersfield email: p.a.tremblay@hud.ac.uk phone: +44 01484 473608
Anthony Cheung	Associate Professor of Music, Brown University email: anthony_cheung@brown.edu phone: (401) 863-3234
Hans Tutschku	Professor of Music, Harvard University email: tutschku@fas.harvard.edu phone: (617) 495-2791
Anne La Berge	Flutist, Improviser, Composer, Amsterdam, The Netherlands email: alb@annelaberge.com
Scott Miller	Professor of Music, St. Cloud State Univ., Director of SEAMUS Records email: slm@scottlmiller.net
Kyle Hutchins	Instructor of Saxophone, Virginia Tech University email: jkhutch@vt.edu phone: (540) 231-3907
Seth Brenzel	Executive Director, The Walden School email: sbrenzel@waldenschool.org phone: (415) 648-4710

List of MUSIC & MEDIA COMPOSITIONS

 $\boldsymbol{saccades}$ (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 	
$\boldsymbol{lacunae}~(2021)$ 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 	
$\boldsymbol{quartet}$ (2021) flute, cello, piano, percussion, & video processing	~11:00
 Commissioned by the [Switch~ Ensemble] for the 2021 SEAMUS Conference IRCAM Forum, NYU/Columbia Univ., 9/30/2021 International Society for Music Information Retrieval (ISMIR) Conference 2021, Online, 11/11/20 The [Switch~ Ensemble], SinusTon Festival, Magdeburg, DE, 10/30/2021 The [Switch~ Ensemble], SEAMUS, Streamed Concert, 4/24/2021 	21
triangle~(2020) string quartet & tape	~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	~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	~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 	
$hold~(2020)~{\rm tape}$	~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	~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	~10:00

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 patina (2019) orchestra $\sim 7:00$ - 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 hollow (2017) feedback saxophone & feedback PVC tubes $\sim 15:00$ - 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

- Nois Saxophone Quartet, Hairpin Arts Center, Chicago, IL, 4/12/2019

- 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 $\sim 10:00$ - Virginia Tech New Music Ensemble, November 2017 Transliteration Series (2017-) book / score of short tape compositions feedback vii: speak, contain (2017) wind quintet, feedback, & tape $\sim 8:30$ - Commissioned by The Walden School & Splinter Reeds Wind Quintet
- only that there's a secret (2016) vocal quartet, spatial audio, & video design

- Imani Winds, University of Chicago, Chicago, IL, 5/12/2018 - Splinter Reeds, The Walden School, Dublin, NH, 7/14/2017

 $\sim 8:00$

- Commissioned by Quince Contemporary Vocal Ensemble & The Walden School
- Quince Contemporary Vocal Ensemble, The Walden School, Dublin, NH, 6/22/2016

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

 $\sim 13:00$

- 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

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 - Yarn/Wire, The Walden School, Dublin, NH, 7/1/2012 ice, water (2012) clarinet $\sim 5:00$ - RenegadeEnsemble, Studio Z, St. Paul, MN, 5/4/2014 deepities (2013) saxophone & flute $\sim 8:00$

- 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

 $\sim 8:00$

- Commissioned by RenegadeEnsemble

 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 	

- Kyle Hutchins, Coe College, Cedar Rapids, IA, 3/18/2014