CURRICULUM VITAE

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With a background in classical and experimental music, in 2018 I joined the music technology industry in order to make sure that the voice of a composer was heard in rooms full of software engineers working on musical articial intelligence. At all three companies that I have worked at, none have used "scrape and steal" datasets made of copyrighted material harvested without permission, and all have employed musical experts paid a living wage as part of a continuous creation process. The software that I'm interested in creating is not a replacement for humans, but instead aspires to the cybernetic ideal: a vital aesthetic feedback loop with technology that allows creators to express or discover things otherwise unattainable alone.

PROFESSIONAL EXPERIENCE

BandLab Technologies – Music Procedural Generation Team

Popular social media and digital audio workstation app for mobile devices and web, with 60 million worldwide users.

2025 Lead Software Engineer (June 2022 – March 2025)

Lead software engineer on procedural generation techniques for symbolic music (scores and MIDI) used internally at Bandlab. Designs software for a team of several composer-producers to accelerate and enhance their work in creating tracks for Bandlab users. The techniques used do not rely on scraping or stealing copyrighted or user data; all data used by the team is created by the team.

Shutterstock, Inc. – Audio Machine Learning Team

Global provider of stock photography, stock footage, stock music, and editing tools. Acquired Amper Music in November 2020, including generative music technology and engineering personnel.

2022 Software Engineer I (Nov. 2020 – March 2022), Software Engineer II (March 2022 – June 2022)

Developer on music information retrieval and graph-based music taxonomy projects, including audio feature extraction, neural network design and unit tests for audio similarity embedding models. Helped develop a reverse audio search microservice on a wholly-owned catalogue of 34,000 tracks, allowing users without a background in music terminology to search with audio itself. Collaborated with music producers on taxonomy design, paying careful attention to non-Western contributions in the catalogue to avoid bias in ML models. Taxonomy includes more than 14,000 unique tags in more than 70 categories.

Amper Music, Inc. - Artificial Intelligence Composition

Former start-up founded by film composers and sound designers, offering a web-based AI composition tool allows nonmusicians the capability of sculpting production-ready audio using simple inputs. Clients have included Mastercard, Universal Music Group, Tencent, LG, Adobe, The New York Times, National Public Radio, and Reuters.

2020 Lead Asset Developer (Nov. 2019 – Nov. 2020)

 Principal software developer in the Creative department, focusing on creating internal tools in Lua that generate scripts responsible for musical decision making, and as such, works closely with the Engineering department. Used composition expertise to curate harmonic and rhythmic data assets for the artificial intelligence composer, with over 300 genre-mood combinations.

 2019 Asset Developer (Aug. 2018 – Nov. 2019)

 Software developer in the Creative department, focusing on Lua scripts responsible for musical decision making. Created a proof-of-concept in Wwise showing applicability of Amper-generated music to adaptive audio in video games. Continued to curate musical data assets.

 2018 Asset Creator (May 2018 – Aug. 2018)

Used composition expertise to curate harmonic and rhythmic data assets for the artificial intelligence composer. Assisted with developing software in the Creative department.

University of California, San Diego Music Department / Freelance

Algorithmic composition software development, sound design, audio recording, editing, mixing, mastering and electronic music performance for Pulitzer prize-winning composer Roger Reynolds.

2023 Music Digital Signal Processing Consultant (2015-Present)

Venues and presenters include the Park Avenue Armory, the Phillips Collection, and the Darmstadt New Music Summer Course, with collaborators including the JACK quartet and violinist Irvine Arditti. Funding provided by various music presenters and ensembles.

2015 Computer Music Research Assistant (2011-2015) Venues and presenters include the National Gallery of Art, Harvard and Columbia universities, with collaborators including Mark Dresser and Alarm Will Sound. Funding by the University of California.

University of Colorado at Boulder College of Music, Pendulum New Music Series

2009 Production Manager (2006-09) Stage management, advertising, graphic design, videography, web design, and administrative assistance for 24 new music concerts over 3 years.

TEACHING EXPERIENCE

Western Michigan University Music Department - Lecturer

2020 Fall Basic Music Theory II (Chromaticism)

Bard College Music Department, Electronic Music Program – Part-Time Visiting Assistant Professor

- 2018 Spring Interactive Performance and Composition with MAX/MSP/Jitter
- 2017 Fall Topics in Music Software: Video Game and Media Composition

Skidmore College Documentary Studies / Media & Film Studies - Lecturer

- 2018 Spring Photogrammetry and 360 Degree Audio/Video (John. B. Moore Documentary Film Studies Collaborative)
- 2017 Fall Interactive Media Programming in Unity (John. B. Moore Documentary Film Studies Collaborative)
- 2017 Spring Interactive Media Programming in Unity (John. B. Moore Documentary Film Studies Collaborative)
- 2017 Spring Video Games: History, Culture & Design (Media and Film Studies Department)

University of California, San Diego Music Department - Instructor

- 2015 Winter Video Game Music and Sound Design: History, Culture & Techniques
- 2014 Summer "Love, Death and Counterpoint:" Renaissance Music in Western Europe
- 2013 Spring Introduction to Composition III, with Vocal, Guitar and Brass Instrumentation

University of California, San Diego Music Department - Graduate Teaching Assistant

- 2014 Winter Video Game Music and Sound Design: History, Culture & Techniques
- 2011 Winter Eighteenth Century Counterpoint
- 2010 Fall Sixteenth Century Counterpoint
- 2010 Summer American Music History
- 2010 Spring Basic Music Theory, Keyboard and Aural Skills III
- 2009 Fall Basic Music Theory, Keyboard and Aural Skills I

University of Colorado at Boulder College of Music - Graduate Teaching Assistant

2006-09 Fall/Spr. Introduction to Music Technology and Electronic Music

EDUCATION

- 2015 Ph. D. in Music, Composition program, supported by Computer Music University of California, San Diego (UCSD)
 Committee: Roger Reynolds (chair), Mark Dresser, Miller Puckette, Amy Alexander, Samuel Buss Composition Instructors: Roger Reynolds, Philippe Manoury, Lei Liang, Chinary Ung
- 2009 M. Mus. in Composition, with an Emphasis in Technology
 University of Colorado at Boulder College of Music
 Committee: Daniel Kellogg (chair), John Drumheller, Jeremy Smith
 Composition Instructors: Daniel Kellogg, Carter Pann, Michael Theodore, John Drumheller
- B. Mus. in Composition, magna cum laude
 University of Oregon School of Music
 Composition Instructors: Robert Kyr, David Crumb, Terry McQuilkin, Jeffrey Stolet

SELECTED EVENTS AS SPEAKER

2023	"Audible Geometry: Using Coordinate Systems as a Resource for Music Generation"
	Roguelike Celebration, remote conference hosted from San Francisco, CA (Oct. 22-23)
2021	"Algorithmic Music Projects in concert music and elsewhere" – Guest Lecture
	Algorithmic & Computer Assisted Composition with Prof. Michelle Lou – U.C. Santa Cruz (May. 6)
2020	"Audible Geometry: System for Procedurally Generating and Remixing Audio & Music" – Guest Lecture Composition Seminar with Prof. Fernanda Navarro – Arizona State Univ. (Nov. 9)
2019	"Audible Geometry: System for Procedurally Generating and Remixing Audio & Music" – Guest Lecture Algorithmic & Computer Assisted Composition with Prof. Michelle Lou – U.C. Santa Cruz (Nov. 13)
2019	"Audible Geometry: System for Procedurally Remixing Audio Based on Geometric Representations of Pitch"
	Game Sound Conference, Millennium Biltmore Hotel, Los Angeles, CA (Oct. 29)
2019	"Amper Music: How and Why an AI Music Composition Company is Hiring Composers"
	ICMC: International Computer Music Conference – New York University (June 16)
2019	"Amper Music: A Phenomenological Approach to Curating AI Music Composition"
	SEAMUS: Society for Electro-Acoustic Music in the U.S. Conference – Berklee College (Mar. 21)
2017	"Audiovisual Alchemy: A Synesthetic Experience in Virtual Reality"
	Skidmore College Encore Series – Outreach Lectures (Nov. 7 & 9)
2017	"Learning and Performing Brian Ferneyhough's Time and Motion Study No. 2"
	DUCKRUBBER (James Bean, T.J. Borden, Hembree), speaking at Recital Hour, U. Mass Lowell, (Mar. 23)
2016	"Audiovisual Alchemy"
	Game Sound Conference, Millennium Biltmore Hotel, Los Angeles, CA (Sept. 28)
2016	"Apocryphal Chrysopoeia: Live, Procedurally Generated Audiovisual Media"
	Univ. of Illinois, Composition Forum Guest Lecture (Mar. 1)
2016	"Apocryphal Chrysopoeia: Live, Procedurally Generated Audiovisual Media"
	Illinois State Univ., Composition Seminar Guest Lecture (Feb. 2)
2014	"Sounding Orbs: A Generative audiovisual Instrument"
	Music / Tech EXPO – Art Institute of California, San Diego, CA (May 10)
2014	"A Spatial Interpretation of Edgard Varèse's Ionisation in 4-channel diffusion"
	SUNY: Univ. at Buffalo, NY (Apr. 9)

2014	"Electroacoustic and audiovisual Compositions, 2012-2014"
	Harvard Group for New Music, Cambridge, MA (Feb. 24)
2014	"On composing Ikarus-Azur" – Pacific Regent, La Jolla, CA (May 5)
2013	"Pre-concert talk with director Steven Schick and composer Paul Hembree"
	La Jolla Symphony and Chorus – Mandeville Auditorium, UCSD (Dec. 7-8)
2012	"The Uncanny in my Music"; Acanthes Academy @ IRCAM

ManiFeste "Rendezvous for Emerging Creation"– Paris, France (June 20)

2010 "Spatial Projection in the Music of Edgard Varèse: Meaning, Origins, and Performance Practice" Varèse Symposium – Conrad Prebys Experimental Theater, UCSD (Dec. 8)

RECORDINGS & PUBLICATIONS

2023	Roger Reynolds: For A Reason (Double Compact Disc Set)
	Music by Roger Reynolds, performed by Irvine Arditti, Pablo Gomez Cano, Liz Pearse, Steven Schick, and
	Paul Hembree. Neuma 128. Engineering by Paul Hembree, Jacob Sundstrom, and Tornike Karchkhadze.
2023	Lost Levels (Digital Release)
	Music by Paul Hembree, original soundtracks to the games Goodnight Traffic City and Rite of Tephra
	Self-published on Bandcamp: https://paulhembree.bandcamp.com/album/lost-levels
2023	8-Bit Roots Revival (Digital Release)
	Music by Paul Hembree, inspired by harmonic analyses of classic chiptunes
	Self-published on Bandcamp: https://paulhembree.bandcamp.com/album/8-bit-roots-revival
2022	Woolgatherer Original Soundtrack (Digital Release)
	Music by Paul Hembree, original soundtrack for the game Woolgatherer
	Self-published on Bandcamp: https://paulhembree.bandcamp.com/album/woolgatherer-ost
2019	Aspiration (Double Compact Disc Set)
	Music by Roger Reynolds, performed by Irvine Arditti, Paul Hembree, inauthentica, and Mark
	Menzies. Kairos 0015051KAI. Engineering by Paul Hembree, Josef Kucera and Nicolas Tipp.
2018	Sixfold Symmetry: Pattern in Art and Science: Teagle Grant Exhibition-Based Teaching Report (Edited Volume)
	Edited by Roe-Dale, Rachel, and Rachel Seligman. Features procedurally generated art by students in my
	course Video Games: History Culture & Design (Spring 2017)
2016	"Audiovisual Alchemy." In Proceedings of the first research track of GameSoundCon: The Art, Technology
	and Business of Game Audio, Sept. 27-28, Millennium Biltmore Hotel, Los Angeles, CA: 9-16.
	http://www.gamesoundcon.com/2016-game-audio-research
2015	Ouroboros and Apocryphal Chrysopoeia: Aesthetics and Techniques (Dissertation)
	(Audiovisual Software Instrument, Large-Scale Composition, & Technical Manual)
	Published by the Univ. of California, San Diego
2015	Four Real-Time Algorithms (Technical Manual)
	with Roger Reynolds and Jaime E. Oliver La Rosa, co-authors
	Published by Edition Peters
2013	"A Spatial Interpretation of Edgard Varèse's <i>Ionisation</i> using Binaural Audio"
	Perspectives of New Music, vol. 51, no. 1 (2013): 256-261. (Journal Article and Compact Disc)
0011	with Dustin Donahue, percussion
2011	Sound Check No. 5 (Compact Disc)
	Released by UCSD Music Department, featuring <i>Passion</i> (2009)
2000	Curated by Philippe Manoury, mastered by Tom Erbe
2009	Invisible College Quartet: Codes & Cyphers (Compact Disc)
	Mystery Cabal MC2009-3. Paul Hembree, keyboard, Brandon Vaccaro, guitar, Chris Rippey, bass, Steven
	Snowden, horn

Sketc	hbook (1985)	pianist/soprano, live audio media	30 min.
	Collaboration with Roger R	eynolds, composer, Liz Pearse, pianist/soprano.	
	Contributed fixed- or live-m	edia vocal processing	
2024	Faculty Recital – Liz Pearse	e, sop./pno. – Winona State University, MN (Mar. 19)	
2023	Double Compact Disc Set, I	Neuma 128 (see Recordings & Publications)	
Rite d	of Tephra (2017-20)	video game (Unity / C#)	software
	By Platypus Games, a colla	boration with William Hembree (artist & programmer)	
	Contributed procedural terr	ain generation programming, original score and interactive audio programming	
	Self-published on Itch.io: ht	tps://platypusgames.itch.io/rite-of-tephra	
	Original soundtrack (orches	tra):	20 min.
	I. Title, II. Explor	ration (procedurally remixed harmony with Audible Geometry)	
2023	"Audible Geometry: Using	coordinate Systems as a Resource for Music Generation"	
	Roguelike Celebra	tion, remote games conference hosted from San Fransicso, CA (Oct. 22-23)	
2019	_	urally Remixed Music System) presented at Game Sound Conference	
2010		ore Hotel, Los Angeles, CA (Oct. 29)	
PERS	SISTENCE (2019-2023)	cello, live audio media	30 min.
	Collaboration with Roger R computer musician.	eynolds, composer, Alexis Decharmes, cello, Kyle Johnson, video artist, Jacob S	undstrom,
		mixing & mastering for a digital video release.	
2023	Digital video release (https:	//youtu.be/0pIl25lmwa4?si=4Rze4b6EdMmh2dZd)	
Woolg	gatherer~(2020-22)	video game (Unity / C $\#$ / Wwise)	software
	By Platypus Games, a colla	boration with William Hembree (artist & programmer)	
	Contributed original score, s	sound design and interactive audio programming.	
2022	Original Soundtrack (orches	stra, chorus & electronics):	45 min.
		Spring Night, III. Summer Day, IV. Summer Night, V. Autumn, VI. Winter Da II. Winter Solstice	y , VII.
Positi	ings (2012-13)	quintet, live audio media (Pure Data)	20 min.
	Collaboration with Roger R	eynolds, composer	
	Contributed interactive aud	io programming and performance.	
2021		e Ensemble (contributed fixed-media audio) – Copenhagen Distillery (Oct. 27)	
2018	June in Buffalo Festival and	l Conference – Ensemble Signal – SUNY: Univ. at Buffalo (June 9)	
2014	Miller Theatre Composer P	ortraits – Ensemble Signal – Columbia Univ., New York, NY (Feb. 22)	
2013		c Festival – Southwest Chamber Music all, Los Angeles, CA (Mar. 2)	
Shifti	ng/Drifting~(2015)	violin, live audio media (Pure Data)	23 min.
	Collaboration with Roger R	eynolds, composer, and violinist Irvine Arditti	
	Contributed interactive aud	io programming, performance & sound design, audio engineering on Kairos CD.	
2018		l Conference – SUNY: Univ. at Buffalo (June 7)	
	Darmstadt International Su	mmer Course for New Music – Orangerie – Darmstadt, Germany (Aug. 4)	
2010 2016 2015		mmer Course for New Music – Orangerie – Darmstadt, Germany (Aug. 4) rd Univ., Palo Alto, CA (Oct. 5)	

- 2015 Wild Beast, CalArts, Valencia, CA (Sept. 30)
- 2015 Art Power: Innovation Series Conrad Prebys Experimental Theater, UCSD (Sept. 25)

Duo t	for Actual and Human Celli (2017) cello, two amplified performers	12 min
	Jenna Lyle, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio)	
2018	DUCKRUBBER – Center for New Music – San Francisco, CA (Jan. 16)	
2018	DUCKRUBBER – Conrad Prebys Experimental Theater, UCSD (Jan. 9)	
2017	DUCKRUBBER – The Waverly Project – New York Univ. (Mar. 31)	
2017	DUCKRUBBER – Stony Brook Univ., NY (Mar. 29)	
2017	DUCKRUBBER – Dept. of Electronic Music – Bard College, NY (Mar. 27)	
2017	DUCKRUBBER – Univ. Mass Lowell, (Mar. 23)	
2017	DUCKRUBBER – Hosted by David Forrest – The Factory, Cambridge, MA (Mar. 22)	
FLiG.	HT (2013-16) string quartet, audiovisual media (Pure Data)	70 min
	Collaboration with Roger Reynolds, composer, the JACK Quartet, video artist Ross Karre	
	Contributed interactive audio programming, performance & sound design.	
2017	West Coast Premiere: UCSD Conrad Prebys Music Center (Nov. 30)	
2016	Premiere: The Park Avenue Armory – New York City (Oct. 31)	
2016	Preview: Univ. of Colorado at Boulder – ATL&S Black Box Theater (Oct. 3-10)	
2016	Preview: UCSD Conrad Prebys Music Center (Aug. 25 – Sept. 3)	
2016	Preview: The Philips Collection – Washington, DC (May 22)	
2015	Preview: American Music Festival – National Gallery of Art, Washington, DC (Mar. 8)	
2015	Preview: James Madison Univ. Contemporary Music Festival – Harrisonburg, VA (Feb. 19)	
	night Traffic City (2017) video game (Javascript / Tone.js) Collaboration with Loren Schmidt, game developer & Kia Labeija, artist Contributed original score, sound design and audio programming. Original soundtrack (piano & electronics)	software 15 min
2017	Day of the Devs, The Midway, San Fransisco, CA (Nov. 11)	
2017	Game Developer's Conference (Mild Rumpus orchard)	
-011	Moscone Convention Center –San Fransisco, CA (Feb. 27 – Mar. 3)	
2016	La Mama Galleria (Visual AIDS Everyday Project) – New York, NY (Nov. 17 – Dec. 10)	
Sound	d Geometries (2003) chamber ensemble, live audio media (MAX)	25 min
	Collaboration with Pauline Oliveros, composer, and Zach Leyton, computer musician on 2016 performa	
	Conaboration with Faume Onveros, composer, and Zach Deyton, computer musician on 2010 performa-	ance.
	Contributed interactive audio performance.	ance.
2017		ance.
	Contributed interactive audio performance.	
2017	Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12)	
2017 2017 2016	Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC	
2017 2016	Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC Pauline Oliveros & the International Contemporary Ensemble Fisher Center LUMA Theater, Bard College (Sept. 17) Dody falling into the repose of his organs (2017) cello and live audio media (MAX)	
2017 2016 <i>his bc</i>	Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC Pauline Oliveros & the International Contemporary Ensemble Fisher Center LUMA Theater, Bard College (Sept. 17) Delty falling into the repose of his organs (2017) cello and live audio media (MAX) Élise Roy, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio)	(Feb. 6)
2017 2016 <i>his bo</i> 2017	 Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC Pauline Oliveros & the International Contemporary Ensemble Fisher Center LUMA Theater, Bard College (Sept. 17) ody falling into the repose of his organs (2017) cello and live audio media (MAX) Élise Roy, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio) DUCKRUBBER – The Waverly Project – New York Univ. (Mar. 31)	(Feb. 6)
2017 2016 <i>his bo</i> 2017 2017	 Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC Pauline Oliveros & the International Contemporary Ensemble Fisher Center LUMA Theater, Bard College (Sept. 17) Dedy falling into the repose of his organs (2017) cello and live audio media (MAX) Élise Roy, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio) DUCKRUBBER – The Waverly Project – New York Univ. (Mar. 31) DUCKRUBBER – Stony Brook Univ., NY (Mar. 29) 	(Feb. 6)
2017 2016 <i>his bc</i>	 Contributed interactive audio performance. WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12) Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC Pauline Oliveros & the International Contemporary Ensemble Fisher Center LUMA Theater, Bard College (Sept. 17) ody falling into the repose of his organs (2017) cello and live audio media (MAX) Élise Roy, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio) DUCKRUBBER – The Waverly Project – New York Univ. (Mar. 31)	(Feb. 6)

Justice	/ Justice: Arias (2001/2016)	soprano, percussion, live audio media (Pure Data) 50	/ 25 min.
	Roger Reynolds, composer; Collaborat	ion with Aurora Borealis Duo & Alice Teyssier	
	Contributed interactive audio program	nming & performance.	
2017	Arias. A Musical Feast – Burchfield H	Penney Art Center (SUNY Buffalo State) (May 12)	
2016	Arias. Baird Hall, Univ. at Buffalo (S	UNY) (Mar. 24)	
2012	Complete Opera. Conrad Prebys Exp	berimental Theater, UCSD (Mar. 11)	
Time a	and Motion Study No. 2 (1973-76	6) cello, live audio media (MAX)	24 min.
	Brian Ferneyhough, composer		
	DUCKRUBBER (James Bean & Paul	Hembree, electronics and T.J. Borden, cello) (formerly The Heterod	yne Trio)
	Contributed interactive audio program	nming and performance.	
2017	DUCKRUBBER – The Waverly Proj	ect – New York Univ. (Mar. 31)	
2017	DUCKRUBBER – Stony Brook Univ.	, NY (Mar. 29)	
2017	DUCKRUBBER – Dept. of Electronic	e Music – Bard College, NY (Mar. 27)	
2017	DUCKRUBBER – Univ. Mass Lowell	, (Mar. 23)	
2017	DUCKRUBBER – Hosted by David I	Forrest – The Factory, Cambridge, MA (Mar. 22)	
2015	June in Buffalo Festival and Conferen	ce – SUNY: Univ. at Buffalo (June 7)	
2015	Wednesdays @ 7; Palimpsest ensemble	e – Conrad Prebys Concert Hall, UCSD (Mar. 4)	
Passag	es 8, 9, 10 and 11 (2012-16)	intermedia performance (MAX/Jitter)	75 min.
	Collaboration with Roger Reynolds, co	omposer	
	Contributed interactive audiovisual pr	rogramming, performance, sound design & moving images.	
2016	No. 11: "Collaboration, Cage, Takemi	tsu, Xenakis, the Sublime, and Obligation"	
	with the Arditti String Qua	rtet, preproduction support by Johannes Regnier	
	Darmstadt Int'l. Summer C	purse for New Music – Orangerie – Darmstadt, Germany (Aug. 3)	
2014	No. 10: "Musings on "Good Lives": Re	elationships, Sustenance, Aspirations, Truth, Secrets, Boundaries,	
	Purpose, Flight"		
	The Making of the Modern	World Public Lecture Series: The Good Life	
	Conrad Prebys Concert Hal	l, UCSD – La Jolla, CA (Mar. 3)	
2013	No. 9: "Collaboration, Xenakis, Cage,	Takemitsu, the Sublime, and Aesthetic Experience"	
	with Steven Schick, percussi	on, Rachel Beetz, flute	
	Michael Ricca, audio postpr		
		and Frankie Martin, video postproduction	
		l, UCSD – La Jolla, CA (Mar. 13)	
2012		hley, Musical Experience, and Intermedia"	
		s, viola, Bill Kalinkos, clarinet	
		t Hall – Harvard Univ., Cambridge, MA – (Dec. 6)	
Dream	Mirror (2010)	guitar, live audio media (Pure Data)	22 min.
	Roger Reynolds, composer		
	Contributed interactive audio perform	ance during the recording.	

2014 Audiovisual documentary project "For a Reason" – Pablo Gomez Cano, guitar, Kyle Johnson, videography Callt2 (Nov. 16-18)

A Mii	nd of Winter (2009-10)	trio, live audio media (Pure Data)	16 min.
	Roger Reynolds, composer		
2016	Contributed interactive audio perfo		
2016	-	all, New England Conservatory (Feb. 18)	
2015	*	Prebys Concert Hall, UCSD (Oct. 21)	
2014	Slee Sinfonietta – Lippes Concert H	Hall, SUNY: Univ. at Buffalo (Apr. 8)	
Kokoi	ro~(1992/2013)	violin, live audio media (Pure Data)	24 min.
	Collaboration with Roger Reynolds	, composer, on new live spatialization	
	Contributed interactive audio progr	ramming and performance.	
2015	Mark Menzies, violin – Wild Beast,	, CalArts, Valencia, CA (Apr. 5)	
Jupite	er(1987)	flute, live audio media (Pure Data)	30 min.
	Philippe Manoury, composer Cor	ntributed interactive audio performance	
	Ccollaboration with Kyle Johnson a	and Yeung-Ping Chen on curation.	
2014	{Sound Initiatives}: Three Flutes (co-curator)	
	Michael Matsuno, flute –	Conrad Prebys Experimental Theatre, UCSD (June 2)	
MAR	Ked MUSIC (2010-14) cont	rabass, live audiovisual media (Pure Data, JackTrip)	20 min.
	. ,	, composer and Mark Dresser, bass, on 2013-14 revisions	
	Contributed interactive audio perfo	ormance & telematic audio.	
2014	Telematic Concert between UCSD	& NYU – M. Dresser, bass, J. Oliver, computer (Feb. 11)	
2013	Telematic Concerts between UCSD	0 & UC Irvine – M. Dresser, bass (Feb. 14/21)	
Subm	erged Memories (2012) narr	ator, ensemble, media (Final Cut, MAX/Jitter)	25 min.
	Collaboration with Roger Reynolds	, composer	
	Contributed interactive audiovisual	programming & performance.	
2013	UCSD grad. student musicians – Q	ualcomm Institute VROOM, UCSD (Apr. 20)	
Towa	rd Another World (2011)	clarinet, live audio media (Pure Data)	12 min.
		buted interactive audio performance.	
2012	Fromm Foundation Visiting Prof. I	Portrait Concert	
	_	Paine Concert Hall, Harvard Univ., Cambridge, MA (Dec. 6)	
Lacon	isme de l'aile (1982)	flute, live audio media (Pure Data)	8 min.
	Kaija Saariaho, composer; Contribu	ited interactive audio programming & performance to UCSD production	
2012	Rachel Beetz, flute – Conrad Preby	rs Concert Hall, UCSD (May 8)	
Ping ((1968/2011)	small ensemble, live audiovisual media (Pure Data)	24 min.
	Roger Reynolds, composer		
		s, interactive audio programming & performance.	
2011	Rachel Beetz, fl., Ross Karre, perc.,		
		ntal Theater, UCSD (May 27)	
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WOR	KS – sorted by most recent event	
Grapp	ble (2011) drum kit, glockenspiel, live digital audio media	6 min.
2024	Thursdays at Noon – Dustin Donahue, perc. – Walter Hall, University of Toronto (Nov. 21)	
2024	Percussive Arts Society International Convention – Dustin Donahue, perc. – Indiana Convention Center (Nov. 14)
2016	Dustin Donahue, perc. – University of Washington (Mar. 3)	
2011	Dustin Donahue, perc. – Conrad Prebys Experimental Theater, UCSD (Oct. 24)	
Flieg,	Kindlein, Flieg (2016) SSAA chorus, piano	5 min.
2019	Sing About It: 21 st Century Song – Amasong: Champaign-Urbana's Premiere Lesbian/Feminist Chorus	
	McKinley Prebyterian Church, Champaign, IL (Jan. 26-27)	
2016	Flight: Songs of Migration – Amasong: Champaign-Urbana's Premiere Lesbian/Feminist Chorus	
	McKinley Prebyterian Church, Champaign, IL (Apr. 9-10)	
Annea	al (2018) horn, trumpet, trombone	7 min.
2018	Second Sunday Concert Series – Boston Modern Brass – Jason Huffman, tpt., Emily Wiebe, hn., C. Neil	
	Parsons, btbn. – Boston Sculptors Gallery (Apr. 8)	
19-To	one Color Wheel (2018) any instrument(s), live audiovisual media (MAX/Jitter)	10 min.
2018	Adam Tinkle and Paul Hembree – Lunchtime Concerts – Bard College, NY (Mar. 15)	
2018	Adam Tinkle and Paul Hembree – Super Dark Mondays – One Caroline, Saratoga Springs, NY (Mar. 3)	
2018	Adam Tinkle and Paul Hembree – GZ Basement, RPI Experimental Music Media Club	
	Rensselaer Polytechnic Institute, Troy, NY (Feb. 24)	
JALE	XOWNS (2018) saxophone, trumpet, live audiovisual media (MAX/Jitter)	10 min.
2018	Adam Tinkle and Paul Hembree – Lunchtime Concerts – Bard College, NY (Mar. 15)	
2018	Adam Tinkle and Paul Hembree – Super Dark Mondays – One Caroline, Saratoga Springs, NY (Mar. 3)	
2018	Adam Tinkle and Paul Hembree – GZ Basement, RPI Experimental Music Media Club	
	Rensselaer Polytechnic Institute, Troy, NY (Feb. 24)	
Triple	e Crown (2018) improvised live audio media (MAX)	45 min.
2018	DUCKRUBBER – Center for New Music – San Francisco, CA (Jan. 16)	
2018	DUCKRUBBER – Conrad Prebys Experimental Theater, UCSD (Jan. 9)	
Pulm	onary Hyphomycosis (2017) trumpet, live audiovisual media (MAX/Jitter)	8 min.
2017	Sam Wells and Paul Hembree – Dept. of Electronic Music – Bard College, NY (Nov. 16)	
2017	Neue Forum 5: Sam Wells & Paul Hembree – ShapeShifter Lab, Brooklyn, NY (Feb. 13)	
Audio	ovisual Alchemy (2016-17) live audiovisual media/virtual reality (Unity/C#/Pure Data)	software
2017	Sam Wells and Paul Hembree – Dept. of Electronic Music – Bard College, NY (Nov. 16)	
2017	Mise-En Place Bushwick Open Studios – Brooklyn, NY (Sept. 23)	

2016 Preview: Game Sound Con – Millennium Biltmore Hotel – Los Angeles, CA (Sep. 27-28)

Cerebra	al Hyphomycosis (2016)	cello, live audiovisual media (MAX/Jitter)	7 min.
2017	DUCKRUBBER – The Waverly Project	– New York Univ. (Mar. 31)	
2017	DUCKRUBBER – Stony Brook Univ., 1	NY (Mar. 29)	
2017	DUCKRUBBER – Dept. of Electronic M	Ausic – Bard College, NY (Mar. 27)	
2017	DUCKRUBBER – Univ. Mass Lowell, (Mar. 23)	
2017	DUCKRUBBER – Hosted by David For	rrest – The Factory, Cambridge, MA (Mar. 22)	
2016	Tyler J. Borden, cello + Paul Hembree, Lichtenbergschule Open Space	electronics – Darmstadt International Summer Course for New Music e – Germany (Aug. 5)	0
2016	Tyler J. Borden DMA Recital – Conrad	Prebys Experimental Theater, UCSD (Apr. 6)	
Harsh I	Noise Improv. (2015)	any instrument, live audio media (Pure Data)	10 min.
2017	Sam Wells and Paul Hembree – Dept. o	f Electronic Music – Bard College, NY (Nov. 16)	
2017	Neue Forum 5: Sam Wells, trumpet & F	Paul Hembree, computer musician	
	ShapeShifter Lab, Brooklyn, N	VY (Feb. 13)	
2016	with Adam Tinkle, alto saxophone		
	The Fifth International Pure I	Data Conference – Maxwell's Tavern, Hoboken, NJ (Nov. 16)	
2015	· –	Qualcomm Institute IDEAS: Initiative for Digital Exploration of Arts titute VROOM, UCSD (June 29)	
Apocry	phal Chrysopoeia (2015)	live audiovisual media (MAX/Jitter)	10 min.
2017	Neue Forum 5: Sam Wells, trumpet & F	Paul Hembree, computer musician	
	ShapeShifter Lab, Brooklyn, N	VY (Feb. 13)	
2016	New York City Electroacoustic Music Fe	estival – National Sawdust (June 5)	
2016	The Callithumpian Consort – Jordan Ha	all, New England Conservatory, Boston, MA (Feb. 18)	
2015	Qualcomm Institute IDEAS: Initiative for Qualcomm Institute VROOM	or Digital Exploration of Arts and Sciences , UCSD (June 29)	
2015	NIME: New Interfaces for Musical Expre	ession Conference	
	Louisiana State Univ., Baton I	Rouge, LA (May 31)	
2015	SEAMUS: Society for Electro-Acoustic N	Music in the U.S. Conference	
	Virginia Tech., Blacksburg, V.	A (Mar. 26)	
2015	N_SEME: National Student Electronic	Music Event, Bowling Green State Univ., OH (Mar. 6)	
Blue Sl	ky Catastrophe (2010/13)	trumpet	7 min.
2017	Sam Wells and Paul Hembree – Dept. or	f Electronic Music – Bard College, NY (Nov. 16)	
2017	Neue Forum 5: Sam Wells & Paul Hemi	pree – ShapeShifter Lab, Brooklyn, NY (Feb. 13)	
2016	Radical Brass, Vol. 4 – Sam Wells, trum	npet – Spectrum, New York City (Jan. 3)	
2015	June in Buffalo Festival and Conference	– Sam Wells, trumpet – SUNY: Univ. at Buffalo (June 7)	
2015	Sam Wells presents works for Trumpet a	and Electronics	
	Sam Wells, trumpet – Conrad	Prebys Experimental Theater, UCSD (Mar. 8)	
2015	Northern Arizona Univ. Guest Artist Se		
	Sam Wells, trumpet – Norther	n Arizona Univ., Flagstaff, AZ (Mar. 5)	
2011	Written for and recorded by Peter Evan	s, as part of the International Contemporary Ensemble's 2011 CalIt2	
	Residency – Studio A, UCSD	(Jan. 18)	

 Sam Wells and Paul Hembree – Dept. of Electronic Music – Bard College, NY (Nov. 16) Neue Forum 5: Sam Wells, trumpet & Paul Hembree, computer musician ShapeShifter Lab, Brooklyn, NY (Feb. 13) Qualcomm Institute IDEAS: Initiative for Digital Exploration of Arts and Sciences Qualcomm Institute VROOM, UCSD (June 29) St. Louis Composers' Night – Tavern of Fine Arts, St. Louis, MO (Oct. 17) California Electronic Music Exchange Concerts Littlefield Concert Hall Mills College, Oakland, CA (Apr. 24) California Electronic Music Exchange Concerts Conrad Prebys Experimental Theater, UCSD (Apr. 22) San Diego New Music Collective California Tour – Swarm Gallery, Oakland, CA (Aug. 8) Light from Outside (2012) soprano, percussion, live audio media (Pure I Aurora Borealis Duo – XX New Music Miami ISCM Festival – Florida Int'l Univ. (Feb. 2) Tiffany DuMouchelle Faculty Recital, Univ. at Buffalo (SUNY) (Mar. 24) Bank of the West Music Series – Aurora Borealis Duo – Cheyenne Central High School (Apr.7) Aurora Borealis Duo – Conrad Prebys Concert Hall, UCSD (Apr. 8) UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Spring Valley Community Center (Mar. 19) UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Downtown Senior Center (Mar. 19) UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Bayside Community Center (Mar. 12) UCSD Pierrot Project – Conrad Prebys Experimental Theatre, UCSD (Apr. 21) 	
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2015 Leslie Leytham: The Lonely Voice – Mengi Gallery, Reykjavik, Iceland (Nov. 20)	11 min
Ouroboros (2014-15) ensemble, live audiovisual media (MAX/Jitte	er) 18 min
2015 Hembree Dissertation Recital; UCSD graduate musicians, David Medine, conductor	
Conrad Prebys Experimental Theater, UCSD (May 17)	
Nimbus (2011) chamber orchestra	8 min.
2015 Exit 128 Chamber Orchestra – First Baptist Church, Columbia, MO (May 10)	
2013 Red Note Composition Competition finalist	
2011 ASCAP Morton Gould Awards finalist	
2011 Palimpsest (UCSD New Music Ensemble) – Conrad Prebys Concert Hall, UCSD (Nov. 16)	
Sounding Orbs (2014) live audiovisual media (MAX/Jitter)	
2014 California Electronic Music Exchange Concerts	15 min
Littlefield Concert Hall, Mills College, Oakland, CA (Apr. 19)	15 min
2014 UCSD Spring Festival, "Immersion: Soundtracks for Sea Life"	15 min
Scripps Institute Birch Aquarium, La Jolla, CA (Apr. 13)	15 mir
Ikarus-Azur (2013) SATB chorus and large orchestra	15 mir

2013 La Jolla Symphony & Chorus (Thomas Nee Commission) – Mandeville Auditorium, UCSD (Dec. 7-8)

Werk	stoffwissenschaft (2013)	trio, fixed audio media (Pure Data)	7 min.
2013	ensemble et cetera – Conrad Prebys	Recital Hall, UCSD (May 18)	
Lumie	ère: Glacée et Réfractée (2012)	chamber orchestra	8 min.
2012		iFeste "Rendezvous for Emerging Creation"	
	Ensemble Intercontempor	ain – Le Centquatre, Paris, France (June 28)	
Eclips	ses~(2009/2012)	trumpet, fixed audiovisual media (MAX/Jitter)	8 min.
	Collaboration with Stephen Dunn, t	rumpet	
2012	Creinconcert, Ronzo-Chienis, Italy (June 23-24)	
Nosfe	ratu (2011/1922)	live film score (quartet, fixed audio media)	84 min.
	Film score to F.W. Murnau's film, c	ommissioned by UCSD German Studies Program	
2011	San Diego New Music Collective – N	Mandeville Auditorium, UCSD (Oct. 21)	
Passie	on (2009)	soprano, ensemble	12 min.
2010	. ,	Swarm Gallery, Oakland, CA (Aug. 8)	
2010	New Music Forum Festival of Conte		
	San Diego New Music Col	lective – San Francisco Community Music Center, CA	
2010	First-Year Graduate Recital – Conr	ad Prebys Hall, UCSD (Jan. 22)	
Antik	ythera Mechanism (2008-09)	chamber orchestra, audiovisual media (MAX/Jitter)	35 min.
2009		niv. Colorado musicians, Boulder Laptop Orchestra	
	ATL&S Black Box Theat		
2009		Will Sound Graduate Composer Readings	
		orado – Boulder, CO (Jan. 18)	
Héno	n Map (2008)	laptop orchestra (MAX)	8 min.
2009	- 、 ,	ler Laptop Orchestra – ATL&S Black Box Theater, Boulder, CO (Mar	
2008		Music Conference – Boulder Laptop Orchestra	. 10)
2000	Lamont School of Music, 2		
Nvx d	& Eris (2007 – 2008)	chamber ensemble	12 min.
v	Edward Levy Commission, Univ. of	Colorado at Boulder	
2009	Modern Miscellanea: The Playgroun		
	Hamilton Recital Hall, Ne	wman Center – Denver, CO (Jan. 29)	
2008	Pendulum New Music series – Tasm	an String Quartet and Arundo Winds	
	Grusin Hall, Univ. Colora	do, Boulder, CO (Mar. 5)	
Jökul	<i>hlaup</i> (2007)	piano	5 min.
2009		ce – Heide Brende, piano – Colorado Springs, CO (Jan. 23)	
2008		ano – Lisser Hall, Mills College, Oakland, CA (Nov. 15)	
2008	Colorado Composers Concert – The		
	Heide Brende, piano – Ki	ng Center, Metro. State College of Denver, CO (Apr. 25)	
2008	Michael Ippolito, piano – Temple T	errace Presbyterian Church, Tampa, FL (Jan. 6)	

2007	Guest Artist Recital – Michael Ippolito, p	ano	
	Morphy Recital Hall, Univ. of W	Visconsin – Madison, WI (Nov. 7)	
2007	Michael Ippolito, piano – Redeemer Luthe	ran Church, Minneapolis, MN (Oct. 21)	
2007	Oregon Bach Festival: Piano Reborn – Ka	te Campbell, piano	
	Beall Hall, Univ. of Oregon, Eug	gene, OR (July 7)	
Media	tation on a Spent .38 Shell (2004-05)	fixed audio media (Kyma)	7 min.
2008	Electro-Acoustic Juke Joint – Delta Music	Institute, Cleveland, MS (Nov. 15)	
2005	Eugene Composers Collective – Downtown	n Initiative for Visual Arts, Eugene, OR (Winter)	
2005	Future Music Oregon – School of Music, U	Univ. of Oregon, Eugene, OR (May 21)	
Mode	<i>l Bride</i> (2008) fil	m score (fixed audio media)(Reason)	7 min.
2008	48 Hour Film Festival, Denver Edition – A	Austin Heller, director (Team Glamorous Duplicity)	
	Gothic Theater, Denver, CO (A	ag. 26)	
Volta	ge Controlled Passacaglia (2007) liv	ve audiovisual media (Moog synthesizer)	12 min.
2007	New West Electronic Arts & Music Organ	ization Festival	
	ATL&S Black Box Theater – Be	bulder, CO (Oct. 13)	
2007	Pendulum New Music series – ATL&S Bla	ack Box Theater, Boulder, CO (Feb. 28)	
Archa	eopteryx~(2006-2007) se	xtet	9 min.
2007	ASCAP Morton Gould Young Composers	Awards finalist	
2007	Pendulum New Music series – The Playgr	ound Ensemble	
	Grusin Hall, Univ. of Colorado,	Boulder, CO (Sept. 26)	
2007	Modern Miscellana – The Playground Ens	emble	
	Hamilton Recital Hall, Newman	Center, Denver, CO (Sept. 18)	
2007	MusicX Festival – Cincinnati College-Con	servatory of Music musicians	
	Cincinnati College-Conservatory	of Music, Cincinnati, OH (June 15)	
2007	Colorado Composers Concert – The Playg	round Ensemble – Bethany Lutheran Church, Denver, CO (l	May 25)
2007	Pendulum New Music series – eighth black	kbird Graduate Composer Readings	
	Grusin Hall, Univ. of Colorado,	Boulder, CO (Feb. 5)	
Der L	Doppelgänger (2007) co	ntrabassoon and live audio media	6.5 min
2007	Aspen Underground – Helena Kopchick, c	ontrabassoon, Paul Hembree, computer	
	Aspen Community Church, Asp	en CO (Jul. 30)	

FREELANCE WORK

2020 Freelance Arranger, Engraver, Audiovisual Technologist (2007-Present)
Previous clients include: Ekkozone (Copenhagen), Darmstadt Ensemble (New York), Irvine Arditti (London), International Contemporary Ensemble (New York), the JACK Quartet (New York), the Callithumpian Consort (Boston, MA), Ensemble Signal (Rochester, NY), the Aurora Borealis Duo (Buffalo, NY), Cappella Orpheus (Champaign, IL), Amasong (Champaign, IL), violinist / Prof. Mark Menzies (CalArts), trumpeter / Prof. Edwin Harkins (UC San Diego), soprano Lucy Shelton (New York), flutist Matteo Cesari (Italy), composer Brian Griffeath-Loeb (San Diego, CA), saxophonist Eliot Gattegno (San Diego, CA), violinist Batya MacAdam-Somer (San Diego, CA), percussionist Bonnie Whiting (San Diego, CA)

CA), guitarist Pablo Goméz (San Diego, CA), the Boulder Laptop Orchestra, pianist Hsing-ay Hsu (Boulder, CO). Also see COLLABORATIONS for details on major creative projects.

COMMISSIONS, SCHOLARSHIPS, GRANTS, AWARDS & HONORS

- 2021 Shutterstock Hackathon First Prize Winner (Footage to Sound Effects cross-asset recommendation system prototype)
- 2017 Funded Teaching with Tang Museum Sixfold Symmetry: Pattern in Art and Science (portion of Teagle Grant)
- 2015 Music Department Competitive Travel Grant (UCSD)
- 2015 Graduate Student Association Competitive Travel Grant (UCSD)
- 2013 Red Note Competition, Chamber Orchestra Division Finalist
- 2013 La Jolla Symphony & Chorus Thomas Nee Commission Prize
- 2013 Music Department Competitive Travel Grant (UCSD)
- 2012 American Music Center (New Music USA) Composer's Assistance Program Grant
- 2012 ASCAP Morton Gould Student Composer Awards Finalist
- 2012 Music Department Competitive Travel Grant (UCSD)
- 2011 UCSD German Studies Program Commission for F.W. Murnau Nosferatu Film Score
- 2008 Center for Humanities and the Arts Eaton Grant (Univ. Colorado)
- 2008 ASCAP Morton Gould Student Composer Awards Finalist
- 2007 MusicX eighth blackbird Competition Finalist
- 2007 Edward Levy Commission Prize (Univ. Colorado)
- 2006 College of Music Dean's Small Grant (Univ. Colorado)
- 2005 Award for Outstanding Work in Composition (Undergraduate Division, Univ. Oregon)

SERVICE WORK

Roger Reynolds Trust – Personal Library Cataloguing & Composition Sketches / Scores Preservation (2016-present) 2023 2015 Composition Focus (Colloquium) Organizing Committee - UCSD (2014-15) 2015 Judge: Undergraduate Composition Juries – UCSD (May) 2014 Co-curator: {Sound Initiatives} Electroacoustic Music Series "Vox Mea" – Conrad Prebys Experimental Theatre, UCSD (Mar. 15) "Three Flutes" - Conrad Prebys Experimental Theatre, UCSD (June 2) 2014 Curator: UCSD Spring Festival, "Immersion: Soundtracks for Sea Life" Scripps Institute Birch Aquarium, La Jolla, CA (Apr. 13) 2014 UCSD Spring Festival Videographer (2010-14) 2013 Judge: Undergraduate Composition Juries – UCSD (May) 2012 Judge: Young Composers Competition - Webster Univ. Community Music School (Oct.) 2012 Web Design Consultant: John Cage Centennial Festival – Washington, DC (Aug.) 2010Board Member and Videographer: The Playground Ensemble, Denver Univ. (2008-10) 2006 Artistic Director & Co-founder: New Frontiers Chamber Symphony – Eugene, OR (2005-06) 2005 Assistant to the Director: Oregon Bach Festival Composers Symposium - Eugene, OR (Sum.)

TECHNICAL EXPERIENCE

Programming Languages (Python, C#, Lua)

Version Control (git / Bitbucket / github) & Project Management / Issue Tracking (Jira/Confluence)

Games & VR (Wwise, Unreal Engine, Unity/C#, Processing)

Audio Processing (MAX/Jitter, Pure Data, Tone.js, SuperCollider, Kyma)

Digital Audio Workstations (Reaper, ProTools, Ableton Live, Reason, Logic, Audacity)

Photogrammetry & Structure-from-Motion Tools (VisualSFM, Meshlab and Blender)

3D Video / Audio (Adobe Premiere, Reaper Ambisonics Toolkit, Google Resonance)
A/V Engineering (Studio & Live Recording, Live Sound Engineering, Projection Design, Show Control)
Web & Graphic Design (HTML, CSS, Adobe Photoshop, GIMP, Inkscape)
Video Editing (Final Cut, Adobe Premiere)
Music Engraving Software (Sibelius, Finale)

Music Information Retrieval & Machine Learning tools (librosa, music21, pytorch)