

CURRICULUM VITAE

Paul Hembree, PhD | music & interactive media
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PROFESSIONAL EXPERIENCE

Amper Music, Inc. – Artificial Intelligence Composition

Start-up offering a web-based AI composition tool that generates production-ready audio files based on duration, mood and genre input. Clients include Mastercard, Universal Music Group, Tencent, LG, Adobe, The New York Times, National Public Radio, and Reuters.

2020 Lead Asset Developer (Jan. 2020 – Present)

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. Uses composition expertise to curate harmonic and rhythmic data assets for the artificial intelligence composer.

2019 Asset Developer (Aug. 2018 – Jan. 2020)

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

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

2018 Audio Technical Director & Sound Designer (2015-2018)

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 primarily provided 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, administrative assistance.

TEACHING EXPERIENCE

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

2005 **B. Mus. in Composition, *magna cum laude***

University of Oregon School of Music

Composition Instructors: Robert Kyr, David Crumb, Terry McQuilkin, Jeffrey Stolet

TECHNICAL EXPERIENCE

Programming Languages (Lua, Python, C#, Javascript, C)

Version Control (git / Bitbucket) & Issue Tracking (Jira)

Games, Interactive Media, & VR Environments (Unity/C#, 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)

SELECTED EVENTS AS SPEAKER

- 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 for Algorithmic and Computer Assisted Composition with Prof. Michelle Lou – U.C. Santa Cruz (Nov. 13)
- 2019 “*Audible Geometry*: System for Procedurally Generating and 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 of Music (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, speaking at Recital Hour, Univ. 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

- 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 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.

- 2015 <http://www.gamesoundcon.com/2016-game-audio-research>
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 *Ionisation* using Binaural Audio”
Perspectives of New Music, vol. 51, no. 1 (2013): 256-261.
 (Journal Article and Compact Disc)
 with Dustin Donahue, percussion
- 2011 ***Sound Check No. 5*** (Compact Disc)
 Released by UCSD Music Department, featuring *Passion* (2009)
 Curated by Philippe Manoury, mastered by Tom Erbe

COLLABORATIONS – SORTED BY MOST RECENT EVENT

- Rite of Tephra* (2017-20) video game (Unity / C#) software**
 By Platypus Games, a collaboration with William Hembree
 Contributed procedural terrain generation programming, original score and interactive audio programming
 Available for download on Itch.io: <https://platypusgames.itch.io/rite-of-tephra>
- 2019 Audible Geometry (Procedurally Remixed Music System) presented at Game Sound Conference
 Millennium Biltmore Hotel, Los Angeles, CA (Oct. 29)
- Posittings* (2012-13) quintet, live audiovisual media (Pure Data) 20 min.**
 Collaboration with with Roger Reynolds, composer
 Contributed interactive audio programming and performance.
- 2018 June in Buffalo Festival and Conference – Ensemble Signal – SUNY: Univ. at Buffalo (June 9)
 2014 Miller Theatre Composer Portraits – Ensemble Signal – Columbia Univ., New York, NY (Feb. 22)
 2013 LA International New Music Festival – Southwest Chamber Music – Zipper Concert Hall, Los Angeles, CA (Mar. 2)
- Shifting/Drifting* (2015) violin, live audio media (Pure Data) 23 min.**
 Collaboration with Roger Reynolds, composer, and violinist Irvine Arditti
 Contributed interactive audio programming, performance & sound design.
- 2018 June in Buffalo Festival and Conference – SUNY: Univ. at Buffalo (June 7)
 2016 Darmstadt International Summer Course for New Music – Orangerie – Darmstadt, Germany (Aug. 4)
 2015 CCRMA Concerts – Stanford 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 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)

***FLiGHT (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)

***Goodnight Traffic City (2017)* video game (Javascript / Tone.js) software**

- Collaboration with Loren Schmidt, game developer & Kia Labeija, artist
 Contributed original score, sound design and audio programming.
- 2017 Preview: Day of the Devs, The Midway, San Francisco, CA (Nov. 11)
 2017 Preview: Game Developer's Conference (Mild Rumpus orchard)
 Moscone Convention Center – San Francisco, CA (Feb. 27 – Mar. 3)
 2016 Preview: La Mama Galleria (Visual AIDS Everyday Project) – New York, NY (Nov. 17 – Dec. 10)

***Sound Geometries (2003)* chamber ensemble, live audio media (MAX) 25 min.**

- Collaboration with Pauline Oliveros, composer, and Zach Leyton, computer musician on 2016 performance.
 Contributed interactive audio performance.
- 2017 WNYC New Sounds Live – Darmstadt Ensemble – Brookfield Place Winter Garden, NYC (Oct. 12)
 2017 Remembering Pauline Oliveros – International Contemporary Ensemble – Park Avenue Armory, NYC (Feb. 6)
 2016 Pauline Oliveros & the International Contemporary Ensemble
 Fisher Center LUMA Theater, Bard College (Sept. 17)

***his body falling into the repose of his organs (2017)* cello and live audio media (MAX) 10 min.**

- Élise Roy, composer; commissioned by DUCKRUBBER (formerly The Heterodyne Trio)
- 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)

***Justice / Justice: Arias (2001/2016)* soprano, percussion, live audio media (Pure Data) 24 / 50 min.**

- Roger Reynolds, composer; Collaboration with Aurora Borealis Duo & Alice Teyssier
 Contributed interactive audio programming & performance.
- 2017 *Arias*. A Musical Feast – Burchfield Penney Art Center (SUNY Buffalo State) (May 12)
 2016 *Arias*. Baird Hall, Univ. at Buffalo (SUNY) (Mar. 24)
 2012 *Complete Opera*. Conrad Prebys Experimental Theater, UCSD (Mar. 11)

***Time and Motion Study No. 2 (1973-76)* cello, live audio media (MAX) 24 min.**

Brian Ferneyhough, composer

DUCKRUBBER (James Bean & Paul Hembree, electronics and T.J. Borden, cello) (formerly The Heterodyne Trio)

Contributed interactive audio programming and performance.

- 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)
- 2015 June in Buffalo Festival and Conference – SUNY: Univ. at Buffalo (June 7)
- 2015 Wednesdays @ 7; Palimpsest ensemble – Conrad Prebys Concert Hall, UCSD (Mar. 4)

***Passages 8, 9, 10 and 11 (2012-16)* intermedia performance (MAX/Jitter) 75 min.**

Collaboration with Roger Reynolds, composer

Contributed interactive audiovisual programming, performance, sound design & moving images.

- 2016 No. 11: “Collaboration, Cage, Takemitsu, Xenakis, the Sublime, and Obligation”
with the Arditti String Quartet, preproduction support by Johannes Regnier
Darmstadt Int'l. Summer Course for New Music – Orangerie – Darmstadt, Germany (Aug. 3)
- 2014 No. 10: “Musings on “Good Lives”: Relationships, Sustenance, Aspirations, Truth, Secrets, Boundaries,
Purpose, Flight”
The Making of the Modern World Public Lecture Series: The Good Life
Conrad Prebys Concert Hall, UCSD – La Jolla, CA (Mar. 3)
- 2013 No. 9: “Collaboration, Xenakis, Cage, Takemitsu, the Sublime, and Aesthetic Experience”
with Steven Schick, percussion, Rachel Beetz, flute
Michael Ricca, audio postproduction
Ross Karre, Kyle Johnson, and Frankie Martin, video postproduction
Conrad Prebys Concert Hall, UCSD – La Jolla, CA (Mar. 13)
- 2012 No. 8 “On Learning, Varèse, Cage, Ashley, Musical Experience, and Intermedia”
with John Pickford Richards, viola, Bill Kalinkos, clarinet
John Knowles Paine Concert Hall – Harvard Univ., Cambridge, MA – (Dec. 6)

***A Mind of Winter (2009-10)* trio, live audio media (Pure Data) 16 min.**

Roger Reynolds, composer

Contributed interactive audio performance.

- 2016 Callithumpian Consort – Jordan Hall, New England Conservatory (Feb. 18)
- 2015 Callithumpian Consort – Conrad Prebys Concert Hall, UCSD (Oct. 21)
- 2014 Slee Sinfonietta – Lippes Concert Hall, SUNY: Univ. at Buffalo (Apr. 8)

***Kokoro (1992/2013)* violin, live audio media (Pure Data) 24 min.**

Collaboration with Roger Reynolds, composer, on new live spatialization

Contributed interactive audio programming and performance.

- 2015 Mark Menzies, violin – Wild Beast, CalArts, Valencia, CA (Apr. 5)

***Jupiter* (1987) flute, live audio media (Pure Data) 30 min.**

Philippe Manoury, composer

Contributed interactive audio performance; collaboration with Kyle Johnson and Yeung-Ping Chen on curation.

2014 {Sound Initiatives}: Three Flutes (co-curator)

Michael Matsuno, flute – Conrad Prebys Experimental Theatre, UCSD (June 2)

***MARKed MUSIC* (2010-14) contrabass, live audiovisual media (Pure Data, JackTrip) 20 min.**

Collaboration with Roger Reynolds, composer and Mark Dresser, bass, on 2013-14 revisions

Contributed interactive audio performance & telematic audio.

2014 Telematic Concert between UCSD & NYU – M. Dresser, bass, J. Oliver, computer (Feb. 11)

2013 Telematic Concerts between UCSD & UC Irvine – M. Dresser, bass (Feb. 14/21)

***Submerged Memories* (2012) narrator, ensemble, media (Final Cut, MAX/Jitter) 25 min.**

Collaboration with Roger Reynolds, composer

Contributed interactive audiovisual programming & performance.

2013 UCSD grad. student musicians – Qualcomm Institute VROOM, UCSD (Apr. 20)

***Toward Another World* (2011) clarinet, live audio media (Pure Data) 12 min.**

Roger Reynolds, composer; Contributed interactive audio performance.

2012 Fromm Foundation Visiting Prof. Portrait Concert

Bill Kalinkos, clarinet – Paine Concert Hall, Harvard Univ., Cambridge, MA (Dec. 6)

***Laconisme de l'aile* (1982) flute, live audio media (Pure Data) 8 min.**

Kaija Saariaho, composer; Contributed interactive audio programming & performance to UCSD production.

2012 Rachel Beetz, flute – Conrad Prebys Concert Hall, UCSD (May 8)

***Ping* (1968/2011) small ensemble, live audiovisual media (Pure Data) 24 min.**

Roger Reynolds, composer

Contributed restoration of materials, interactive audio programming & performance.

2011 Rachel Beetz, fl., Ross Karre, perc., Roger Reynolds, piano

Conrad Prebys Experimental Theater, UCSD (May 27)

WORKS – SORTED BY MOST RECENT EVENT

***Flieg, Kindlein, Flieg* (2016) SSAA chorus, piano 5 min.**2019 Sing About It: 21st 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)

***19-Tone 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)

JALEXOWNS (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 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)

Pulmonary 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)

Audiovisual 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)

Cerebral 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., 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)
2016 Tyler J. Borden, cello + Paul Hembree, electronics – Darmstadt International Summer Course for New Music
Lichtenbergschule Open Space – Germany (Aug. 5)
2016 Tyler J. Borden DMA Recital – Conrad Prebys Experimental Theater, UCSD (Apr. 6)

Harsh Noise Improv. (2015) any instrument, live audio media (Pure Data) 10 min.

2017 Sam Wells and Paul Hembree – Dept. of Electronic Music – Bard College, NY (Nov. 16)
2017 Neue Forum 5: Sam Wells, trumpet & Paul Hembree, computer musician – ShapeShifter Lab, Brooklyn, NY (Feb. 13)
2016 with Adam Tinkle, alto saxophone
The Fifth International Pure Data Conference – Maxwell's Tavern, Hoboken, NJ (Nov. 16)
2015 with Drew Ceccato, tenor saxophone; Qualcomm Institute IDEAS: Initiative for Digital Exploration of Arts and
Sciences Qualcomm Institute VROOM, UCSD (June 29)

Apocryphal Chrysopoeia (2015) live audiovisual media (MAX/Jitter) 10 min.

2017 Neue Forum 5: Sam Wells, trumpet & Paul Hembree, computer musician – ShapeShifter Lab, Brooklyn, NY (Feb. 13)
2016 New York City Electroacoustic Music Festival – National Sawdust (June 5)
2016 The Callithumpian Consort – Jordan Hall, New England Conservatory, Boston, MA (Feb. 18)

- 2015 Qualcomm Institute IDEAS: Initiative for Digital Exploration of Arts and Sciences
Qualcomm Institute VROOM, UCSD (June 29)
- 2015 NIME: New Interfaces for Musical Expression Conference
Louisiana State Univ., Baton Rouge, LA (May 31)
- 2015 SEAMUS: Society for Electro-Acoustic Music in the U.S. Conference
Virginia Tech., Blacksburg, VA (Mar. 26)
- 2015 N_SEME: National Student Electronic Music Event, Bowling Green State Univ., OH (Mar. 6)

***Blue Sky Catastrophe (2010/13)* trumpet 7 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)
- 2016 Radical Brass, Vol. 4 – Sam Wells, trumpet – 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 and Electronics
Sam Wells, trumpet – Conrad Prebys Experimental Theater, UCSD (Mar. 8)
- 2015 Northern Arizona Univ. Guest Artist Series
Sam Wells, trumpet – Northern Arizona Univ., Flagstaff, AZ (Mar. 5)
- 2011 Written for and recorded by Peter Evans, as part of the International Contemporary Ensemble's 2011 Callt2
Residency – Studio A, UCSD (Jan. 18)

***Chemical Oscillator (2011)* 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, trumpet & Paul Hembree, computer musician – ShapeShifter Lab, Brooklyn, NY (Feb. 13)
- 2015 Qualcomm Institute IDEAS: Initiative for Digital Exploration of Arts and Sciences
Qualcomm Institute VROOM, UCSD (June 29)
- 2012 St. Louis Composers' Night – Tavern of Fine Arts, St. Louis, MO (Oct. 17)
- 2011 California Electronic Music Exchange Concerts
Littlefield Concert Hall Mills College, Oakland, CA (Apr. 24)
- 2011 California Electronic Music Exchange Concerts
Conrad Prebys Experimental Theater, UCSD (Apr. 22)
- 2010 San Diego New Music Collective California Tour – Swarm Gallery, Oakland, CA (Aug. 8)

***Light from Outside (2012)* soprano, percussion, live audio media (Pure Data) 15 min.**

- 2017 Aurora Borealis Duo – XX New Music Miami ISCM Festival – Florida Int'l Univ. (Feb. 2)
- 2016 Tiffany DuMouchelle Faculty Recital, Univ. at Buffalo (SUNY) (Mar. 24)
- 2015 Bank of the West Music Series – Aurora Borealis Duo – Cheyenne Central High School (Apr.7)
- 2013 Aurora Borealis Duo – Conrad Prebys Concert Hall, UCSD (Apr. 8)
- 2013 UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Spring Valley Community Center (Mar. 22)
- 2013 UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Downtown Senior Center (Mar. 19)
- 2013 UCSD Gluck Outreach Concerts – Aurora Borealis Duo – Bayside Community Center (Mar. 12)
- 2012 UCSD Pierrot Project – Conrad Prebys Experimental Theatre, UCSD (Apr. 21)

***Des Wahnsinns sanfte Flügel (2015)* soprano and fixed audio media (Pure Data) 11 min.**

- 2015 Leslie Leytham: The Lonely Voice – Mengi Gallery, Reykjavik, Iceland (Nov. 20)

<i>Ouroboros</i> (2014-15)	ensemble, live audiovisual media (MAX/Jitter)	18 min.
2015	Hembree Dissertation Recital; UCSD graduate musicians, David Medine, conductor Conrad Prebys Experimental Theater, UCSD (May 17)	
<i>Nimbus</i> (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)	
<i>Sounding Orbs</i> (2014)	live audiovisual media (MAX/Jitter)	15 min.
2014	California Electronic Music Exchange Concerts Littlefield Concert Hall, Mills College, Oakland, CA (Apr. 19)	
2014	UCSD Spring Festival, “Immersion: Soundtracks for Sea Life” Scripps Institute Birch Aquarium, La Jolla, CA (Apr. 13)	
<i>Ikarus-Azur</i> (2013)	SATB chorus and large orchestra	15 min.
2013	La Jolla Symphony & Chorus (Thomas Nee Commission) – Mandeville Auditorium, UCSD (Dec. 7-8)	
<i>Werkstoffwissenschaft</i> (2013)	trio, fixed audio media (Pure Data)	7 min.
2013	ensemble et cetera – Conrad Prebys Recital Hall, UCSD (May 18)	
<i>Lumière: Glacée et Réfractée</i> (2012)	chamber orchestra	8 min.
2012	Acanthes Academy @ IRCAM: ManiFeste “Rendezvous for Emerging Creation” Ensemble Intercontemporain – Le Centquatre, Paris, France (June 28)	
<i>Eclipses</i> (2009/2012)	trumpet, fixed audiovisual media (MAX/Jitter)	8 min.
	Collaboration with Stephen Dunn, trumpet	
2012	Creinconcert, Ronzo-Chienis, Italy (June 23-24)	
<i>Nosferatu</i> (2011/1922)	live film score (quartet, fixed audio media)	84 min.
	Film score to F.W. Murnau's film, commissioned by UCSD German Studies Program	
2011	San Diego New Music Collective – Mandeville Auditorium, UCSD (Oct. 21)	
<i>Passion</i> (2009)	soprano, ensemble	12 min.
2010	San Diego New Music Collective – Swarm Gallery, Oakland, CA (Aug. 8)	
2010	New Music Forum Festival of Contemporary Music (Aug. 7) San Diego New Music Collective – San Francisco Community Music Center, CA	
2010	First-Year Graduate Recital – Conrad Prebys Hall, UCSD (Jan. 22)	
<i>Antikythera Mechanism</i> (2008-09)	chamber orchestra, audiovisual media (MAX/Jitter)	35 min.
2009	Hembree master's thesis recital – Univ. Colorado musicians, Boulder Laptop Orchestra ATL&S Black Box Theater, Boulder, CO (Apr. 11)	

2009 Pendulum New Music series: Alarm Will Sound Graduate Composer Readings
Grusin Hall, Univ. of Colorado – Boulder, CO (Jan. 18)

***Hénon Map (2008)* laptop orchestra (MAX) 8 min.**

2009 Pendulum New Music series – Boulder Laptop Orchestra – ATL&S Black Box Theater, Boulder, CO (Mar. 18)

2008 International Society of Improvised Music Conference – Boulder Laptop Orchestra
Lamont School of Music, Denver, CO (Dec. 7)

***Nyx & Eris (2007 – 2008)* chamber ensemble 12 min.**

Edward Levy Commission, Univ. of Colorado at Boulder

2009 Modern Miscellanea – The Playground Ensemble – Hamilton Recital Hall, Newman Center – Denver, CO (Jan. 29)

2008 Pendulum New Music series – Tasman String Quartet and Arundo Winds
Grusin Hall, Univ. Colorado, Boulder, CO (Mar. 5)

***Jökulhlaup (2007)* piano 5 min.**

2009 Colorado Music Educators Conference – Heide Brende, piano – Colorado Springs, CO (Jan. 23)

2008 New Keys Series; Kate Campbell, piano – Lisser Hall, Mills College, Oakland, CA (Nov. 15)

2008 Colorado Composers Concert – The Playground Ensemble
Heide Brende, piano – King Center, Metro. State College of Denver, CO (Apr. 25)

2008 Michael Ippolito, piano – Temple Terrace Presbyterian Church, Tampa, FL (Jan. 6)

2007 Guest Artist Recital – Michael Ippolito, piano – Morphy Recital Hall, Univ. of Wisconsin – Madison, WI (Nov. 7)

2007 Michael Ippolito, piano – Redeemer Lutheran Church, Minneapolis, MN (Oct. 21)

2007 Oregon Bach Festival: Piano Reborn – Kate Campbell, piano – Beall Hall, Univ. of Oregon, Eugene, OR (July 7)

***Meditation 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 Initiative for Visual Arts, Eugene, OR (Winter)

2005 Future Music Oregon – School of Music, Univ. of Oregon, Eugene, OR (May 21)

***Model Bride (2008)* film score (fixed audio media)(Reason) 7 min.**

2008 48 Hour Film Festival, Denver Edition – Austin Heller, director (Team Glamorous Duplicity)
Gothic Theater, Denver, CO (Aug. 26)

***Voltage Controlled Passacaglia (2007)* live audiovisual media (Moog synthesizer) 12 min.**

2007 Pendulum New Music series – ATL&S Black Box Theater, Boulder, CO (Feb. 28)

2007 New West Electronic Arts & Music Organization Festival
ATL&S Black Box Theater – Boulder, CO (Oct. 13)

***Archaeopteryx (2006 – 2007)* sextet 9 min.**

2007 ASCAP Morton Gould Young Composers Awards finalist

2007 Pendulum New Music series – The Playground Ensemble – Grusin Hall, Univ. of Colorado, Boulder, CO (Sept. 26)

2007 Modern Miscellanea – The Playground Ensemble – Hamilton Recital Hall, Newman Center, Denver, CO (Sept. 18)

2007 MusicX Festival – Cincinnati College-Conservatory of Music musicians, – Cincinnati College-Conservatory of Music,
Cincinnati, OH (June 15)

- 2007 Colorado Composers Concert – The Playground Ensemble – Bethany Lutheran Church, Denver, CO (May 25)
- 2007 Pendulum New Music series – eighth blackbird Graduate Composer Readings – Grusin Hall, Univ. of Colorado, Boulder, CO (Feb. 5)

FREELANCE WORK

- 2020 Freelance Audiovisual Technologist (programming, performance, live sound, concert a/v recording) (2007-Present)
 Previous clients include: 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), guitarist Pablo Gómez (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

- 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

- 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.)
- 2010 Board 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.)

MASTER CLASS, CONFERENCE AND FESTIVAL INSTRUCTORS

Mark Applebaum, Martin Bresnick, Chaya Czernowin, Michael Daugherty, Thierry De May, David Felder, Brian Ferneyhough, Joshua Fineberg, Alan Fletcher, Luca Francesconi, Beat Furrer, Augusta Read Thomas, Veljo Tormis, Mark Anthony Turnage, Hans Tutschku