

DANIEL MCKEMIE

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PORTFOLIO

www.danielmckemie.com/portfolio-gatech

EDUCATION

MS in Computer Science

Ex. 2025

CUNY Brooklyn College; Brooklyn, NY

Research topics: Music Information Retrieval/Audio and Speech Analyses in Medicine

Research Assistant for Prof. Johanna Devaney; [pyAMPACT](#), SingWell

MA in Music Composition

2011

Mills College; Oakland, CA

Thesis: "Kickin' Out the Jams: Experimentation in the 21st Century"

BA in Music Performance (Percussion)

2009

University of Nevada, Las Vegas

Thesis: "A Theoretical and Performative Analysis of Iannis Xenakis' *Rebonds B*"

SKILLS

- Music Tech: Max/MSP, PureData, SuperCollider, Chuck, Ableton Live/M4L, Pro Tools (Certified)
- Analog and Digital Synthesis, DSP Programming, Music Information Retrieval, Machine Learning
- General programming languages: Python, JavaScript, Java, C/C++
- Hardware: Circuitry, Soldering, Arduino, Raspberry Pi, Synth Design, Daisy Seed, Bela Board
- Instrumental Composition and Arranging
- Percussion Performance: New Music, Drum Set, Mallets, Orchestral, and Ragtime
- French: Intermediate reading/writing and Basic speaking

NOTABLE PERFORMANCES/ENGAGEMENTS

- *Coda* at SEAMUS; Purdue University; West Lafayette, IN 2025
- *Coda* at MoxSonic Festival; Univ. Central Missouri; Warrensburg, MO 2025
- *Coda* at Nahon Museum of Italian Jewish Art; Jerusalem, Israel 2025
- *Decontrol* at PIKSEL Festival; Bergen, Norway 2024
- *Pneuma X & XI for Percussion and Piano* at Turn Around; Herbert Brun House; Champaign, IL 2024
- *Pneuma IV, X, & XI for Percussion, Cello, and Piano* at All Score Urbana; Champaign, IL 2023
- Presentation on otoacoustic emissions in music; *Art Science Connect*; CUNY Grad Center; New York 2023
- *Wire Transfer #3* at VU Symposium; Park City, UT 2023
- *Seaswell for four snare drums*; TENOR Conference; Boston MA 2023
- *Meditation for your Guts* for solo cello, played by Henry McPherson; London, UK 2023
- *Cadenza for Solo Cello* at New Music Mosaic; Boston, MA 2023
- *Seaswell for four snare drums, SSD for 12 performers* at CUSP Uncommon Sound; Cleveland, OH 2022
- *Wire Transfer #2* at IRCAM Forum; New York, NY 2022
- *Covid Fridge...*; Australasian Computer Music Conference; Wellington, New Zealand 2022
- *Decontrol* at New York City Electroacoustic Music Festival; New York, NY 2022
- Gaudeamus Muziekweek: Contributor for the Screen Dive Exhibit of Interactive Online Works 2021
- Artist Faculty at Fresh Inc. Festival w/Fifth House Ensemble; Chicago, IL 2021
- *El Movimiento* at Premier Festival de Música Electroacústica en Núcleo Espacio; Reynosa, Mexico 2021
- SEAMUS Conference: Online installation exhibit of *El movimiento in la quietud* 2021
- SEAMUS Conference: Twelve Series online performance 2021
- Gaudeamus Muziekweek: Contributor for the Screen Dive Exhibit of Interactive Online Works 2020

- Programming staff for *Flame Keepers* online installation/concert space w/Metropolis Ensemble, NYC **2020**
- Artist Faculty at Fresh Inc. Festival w/Fifth House Ensemble; Chicago, IL **2020**
- *Feedback Study #3* MoxSonic New Music Festival; Warrensburg, MO **2020**
- *Live Code Control of a Modular Synthesizer*; MoxSonic New Music Festival; Warrensburg, MO **2020**
- *Seaswell* included in the Animated Notation Exhibit, TENOR Conference; Melbourne, Australia **2019**
- Performer: Pauline Oliveros Memorial Concert at Park Avenue Armory; New York, NY **2017**
- Premiere of Lou Harrison's *Recording Piece* w/Talujon Percussion Group, Jazz Gallery; NYC **2017**
- Arranger for Roscoe Mitchell's *Conversations...* performances at L'off Jazz Festival; Montreal, CA **2016**
- Arranger for Roscoe Mitchell's *Conversations...* Tectonics Festival with Iceland Symphony **2016**
- Kontakte Duo; *Pneuma XI* for percussion and electronics; Spain and Germany **2015**
- Performer: Lightbulb Ensemble at the Smithsonian with JACK Quartet; Washington, DC **2015**
- Performer: Lightbulb Ensemble at Queens College and Pioneer Works; New York, w/JACK Quartet **2015**
- Performer: Festival celebration of the music of Pauline Oliveros; Santa Clara University, CA **2014**
- *Pneuma I & II* for percussion, bassoon, and electronics; CalArts, Los Angeles, CA **2014**
- Performer: *John Cage MusiCircus* at Yerba Buena Center for the Arts, curated by Steve Schick; SF, CA **2012**
- *John Cage Retrospective* at SFMOMA, performed *Fontana Mix* for SF Electronic Music Festival **2012**
- *Lou Harrison's 85th Birthday Celebration*, performed *La Koro Sutro* at Berkeley Art Museum **2012**
- Performer: World Premiere of Roscoe Mitchell's *CARDS: In the Faces of Roses* at Yoshi's, Oakland **2012**
- Performer: World Premiere of Roscoe Mitchell's *Would you Wear My Eyes* at Mills College **2012**
- Performer: US Premiere; Christian Wolff's *Metals and Breath* at Mills College **2011**
- Performer: *San Francisco Contemporary Music Players 40th Anniversary Concert*, SF, CA **2011**
- Performer: US Premiere; Peter Garland's *Smokey the Bear Sutra* at Herbst Theatre, SF **2011**

NOTABLE ALBUM RELEASES/CREDITS

- *New Release - Untitled* - Electroacoustic Compositions 2008-2024; Modulisme Session TBD **2025**
- *Concerto for Contrabass Clarinet and Nine Musicians*, Acoustronique Vol 2; Modulisme **2024**
- *Sample Systems*, work for Buchla synthesizer, Modulisme Session 096 **2023**
- *MASS* on Voltage Control Records (VCR-1014) **2022**
- *Maximalism* Series on Voltage Control Records (VCR-1007) **2021**
- *Control Surfaces* on Voltage Control Records (VCR-1005) **2020**
- *D/A /// A/D* on Voltage Control Records (VCR-1001) **2020**
- Roscoe Mitchell's *Ride the Wind* on Nessa Records [as transcriber/orchestrator] (NCD-40) **2018**
- *Give My Regards to 14th St./Slaydie's Knees* on Cutty Strange Records (CSR-006) **2017**
- Roscoe Mitchell's *Discussions* on Wide Hive Records [as transcriber/orchestrator] (WH-0339) **2017**
- The Heroic Quartet, split with Pink Gaze on Self-Help Tapes (HLP13) **2016**
- *3 Pieces* w/ Christina Stanley, Ben Tinker, and Zachary James Watkins on Self-Help Tapes (HLP09) **2015**
- *Dischords/Dysrhythmia* on Turmeric Magnitudes (TM17) **2013**
- The Heroic Quartet on Turmeric Magnitudes (TM22) **2013**
- *Chloros* on Edgetone Records (EDT4107) **2011**

PUBLICATIONS

- Journal *Emille* (2021); Korea Electro-acoustic Music Society; Seoul, Korea: **2021**
 - *Dynamic Stochastic Control Voltage Generation*
- Proceedings of the 14th International Symposium on Computer Music Interdisciplinary Research: **2019**
 - *COMPOSITES 1: Real-Time Animated Notation in the Web Browser*
- Toplap.org: Article: *Live Coding Control of a Modular Synthesizer with Chuck* **2019**
 - Article: *Live Coding Control of a Modular Synthesizer with Chuck*

PEER REVIEWED PAPERS/PRESENTATIONS/CONFERENCES

- MoxSonic New Music Festival; Warrensburg, MO: 2025
 - Paper presentation: *pyAMPACT: A Score-Audio Alignment Toolkit for Live Performance Data Estimation and Multi-Modal Processing* (w/Johanna Devaney, Alexander Morgan)
- SEAMUS; Purdue University; West Lafayette, IN: 2025
 - Paper presentation: *pyAMPACT: A Score-Audio Alignment Toolkit for Live Performance Data Estimation and Multi-Modal Processing* (w/Johanna Devaney, Alexander Morgan)
- 25th International Society for Music Information Retrieval Conference (ISMIR); SF, CA: 2024
 - Poster presentation and demo: *pyAMPACT: A Score-Audio Alignment Toolkit for Live Performance Data Estimation and Multi-Modal Processing* (w/Johanna Devaney, Alexander Morgan)
- Second Int'l Conference on Computational and Cognitive Musicology; Utrecht, NL: 2024
 - *pyAMPACT: A Score-Audio Alignment Toolkit for Live Performance Data Estimation and Multi-Modal Processing* (w/Johanna Devaney, Alexander Morgan)
- Medieval Renaissance Music Conference; Granada, Spain: 2024
 - *Combining Symbolic and Audio Analysis* (w/Johanna Devaney, Alexander Morgan)
- Society for Music Perception and Cognition; Banff, Canada: pyAMPACT Co-presenter 2024
 - *Computational Tools for Music Corpus Studies* (w/Johanna Devaney, Alexander Morgan, et al)
- VU Symposium; Park City, UT: 2023
 - *Wire Transfer 3: WebRTC/Web Audio as Instrument, Score, and Network*
- Society for Electro-Acoustic Music in the United States (SEAMUS); New York, NY: 2023
 - *Wire Transfer 2: WebRTC/Web Audio for Instrument Building and Remote Collaboration*
- IRCAM Forum; New York, NY: 2022
 - *Wire Transfer: WebRTC/Web Audio API for Real Time Collaborative Performance*
- Australasian Computer Music Conference; Wellington, New Zealand: 2022
 - *Artist Talk on Network Music and WebMIDI*
- NYC Electroacoustic Music Festival; New York, NY: 2022
 - *Zero to 16383 Through the Wire: Transmitting High-Res MIDI w/WebSockets and Browser*
- Museum of Portable Sound Conference; London, UK: 2021
 - Audio Paper: *Web Audio and the Democratization of Audio Production*
- Korea Electro-acoustic Music Society Annual Conference; Seoul, Korea: 2021
 - *Dynamic Stochastic Control Voltage Generation*
- Society for Electro-Acoustic Music in the United States Conference; Charlottesville, VA: 2021
 - *Control Surfaces: Using the Commodore 64 to Expand Musical Boundaries*
- MoxSonic New Music Festival; Warrensburg, MO: 2020
 - *Tape Delay Techniques in the Web Browser*
- Proceedings of the 14th International Symposium on Computer Music Interdisciplinary Research: 2019
 - *COMPOSITES 1: Real-Time Animated Notation in the Web Browse*
- Percussive Arts Society Int'l Conference; Indianapolis, IN: 2018
 - Lecture and Performance of Lou Harrison's *Recording Piece* w/Talujon Percussion Group

SERVICE

- New York Electroacoustic Music Festival; New York, NY; Steering Committee 2025
- International Computer Music Conference; Boston, MA; music and papers adjudicator 2025
- Web Audio Conference; Purdue University, West Lafayette, IN; adjudicator 2024
- Society of Electroacoustic Music in the United States; music and research adjudicator 2024
- Society of Electroacoustic Music in the United States; music and research adjudicator 2023

AWARDS

- Goethe Institut Virtual Partner Residency Grant for online installation *El movimiento en la quietud* **2020**
- NY Innovative Theater Nomination for Outstanding Sound Design; NY Deaf Theater's TITUS **2017**
- NY Innovative Theater Nomination for Outstanding Music; NY Deaf Theater's TITUS **2017**
- Artist-in-Residence at WGXC Wave Farm; Acra, NY **2014**
- Film Score for *Reflections* wins "Best Arthouse Short" at the Pollygrind Film Festival **2013**
- Top 10 local art exhibit of 2011 as named by Las Vegas Weekly for *Sonic Trichromacy* installation **2011**

GUEST LECTURES

- Ramapo College, Creative Coding: Adapting a Live Performance for Installation w/RNBO **2023**
- Ramapo College, Creative Coding: Artist Talk **2022**
- SUNY Broome, Beat Production: Sound Characteristics of Layered Drum Samples **2021**
- SUNY Broome, Recording and Production I: Artist Talk **2021**
- Hackerspace, London, UK: Max/MSP as a Middleware **2021**
- SUNY Oneonta, Audio Arts II: Presentation of my Electronic Music and Techniques **2018**
- SUNY Oneonta, Audio Arts I: A Brief Overview of British IDM of the 1990s **2017**
- RPI, Pauline Oliveros' DL Course: Composing for Strings and Deep Listening **2013**

NOTABLE COMMISSIONS

- Sleepy Hollow High School; *New Work* for percussion quartet **2024**
- CUSP Uncomon Sound; *SSD* for chamber ensemble; Cleveland, OH **2022**
- New York Deaf Theater's production of TITUS, original music and sound design **2016**
- Funsch Dance Experience; *Le grand spectacle de l'effort et de l'artifice* for piano and live electronics **2016**
- Anna Wray and Chris Foss; *Pneuma I & II* for vibraphone, bassoon, and electronics; Los Angeles, CA **2014**
- The Luna Ensemble; *Journey [Back] to the East Bay* for eight players **2014**
- Montana State University, Billings; *New Piece* for solo marimba and percussion trio **2013**
- Art Saxophone Association, Italy; *Dispersion for Sub-Saxophone Quartet* **2012**
- Fifth Wall Gallery, Las Vegas, NV; sound/sculpture work, *Sonic Trichromacy* **2011**
- Montana State University, Billings; *Two Movements for Percussion Trio* **2010**
- Helen Pau's *The Stone Wife*; theater production, original music and sound design **2010**
- Montana State University, Billings; arrangement of Sigur Ros' *Untitled #1* **2009**

TEACHING EXPERIENCE

Brooklyn College; Brooklyn, NY, Adjunct Lecturer

2025 – Present

- MUSC 3264; Music Computing
- Instructing on techniques of electronic music through Python programming and EarSketch

Revolent Group; New York, NY, Technical Developer Trainer

02/2020 – 09/2020

- Taught professional cohorts of software developers on major topics of Salesforce Engineering
- Instructed on select topics of object-oriented programming, best practices of application design, data migration, and software integration techniques

Alameda Music Project; Alameda, CA, Lead Teaching Artist – Percussion

09/2015 – 09/2016

- Developed curriculum for El Sistema based music course grades 2-5
- Course focuses included instrument building, new music notation, improvisation, and group collaboration

Royal Guard of Oman; Al-Seeb, Muscat, Oman; Acting Director of RGO Drum Corps

01/2015 – 06/2015

- Directed a 62-piece drumline and front ensemble for performances and events around the city
- Composed original cadences and drill and arranged pop hits

Music Land School of Music; Fremont, CA, Drum and Piano Instructor

12/2011 – 12/2012

- Taught instrumental lessons and music theory to ages 5 to adult

- Co-wrote “Young Pianist” curriculum for introductory piano to ages 2-5

Conservatory of Vocal and Instrumental Arts; Oakland, CA, Percussion Instructor **09/2011 – 06/2012**

- Developed and taught curriculum for two levels of percussion fundamentals grades 3-8
- Co-directed the COVA Drumline; featured in many local competitions and parades
- Wind band and orchestra percussion section coaching during rehearsals

Napa School of Music; Napa, CA, Drum, Piano, and Rock Band Instructor **08/2011 – 05/2012**

- Taught private lessons in drum set and piano ages 5 to adult
- Coached rock band ensemble ages 14-17, on music, set list curation, and stage presence

Robison Middle School; Las Vegas, NV, Percussion Instructor **08/2008 – 06/2009**

- Percussion instructor for symphonic, jazz, concert, and beginning bands
- Composed and arranged music for, and directed the Robison Middle School Percussion Ensemble

Lindamood-Bell Learning Processes; Las Vegas/Berkeley/New York, Clinician **2007 – 2016 (Seasonal)**

- Taught ages 5 to adult skills in developing phonemic awareness, word attack, symbol imagery, and reading comprehension to those with dyslexia, autism, and other reading disorders
- Taught core mathematics to select students from arithmetic to pre-calculus

Clark County School District; Las Vegas, NV, Substitute Teacher **2006 – 2008**

- Taught music, English, and math to students grades K-12