DANIEL MCKEMIE

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PROFESSIONAL SUMMARY

Composer, performer, and programmer working in Music Information Retrieval, Web Audio, novel synthesis techniques, and machine learning. With this comes new ways of interfacing software and hardware to allow for complex, interactive musical environments and new forms of collaboration to emerge.

EDUCATION

MS in Computer Science   **Ex. 2025**
CUNY Brooklyn College; Brooklyn, NY
Research: Music Information Retrieval/Audio Analysis
Research Assistant for Prof. Johanna Devaney; pyAMPACT project

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
- Programming: JavaScript, Python, Java, C/C++
- Hardware: Circutry, 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

- Web Audio Conference; West Lafayette, IN; adjucator	**2024**
- Society of Electroacoustic Music in the United States; music and research adjucator	**2024**
- Presentation on otoacoustic emissions in music; *Art Science Connect*; New York, NY	**2023**
- *Wire Transfer #3* at VU Symposium; Park City, UT	**2023**
- Performance of animated score *Seaswell,* TENOR Conference; Boston MA	**2023**
- Society of Electroacoustic Music in the United States; music and research adjucator	**2023**
- CUSP Uncommon Sound, two comissions of Animated Notation works; Cleveland, OH	**2022**
- *Wire Transfer #2 at* IRCAM Forum; New York, NY	**2022**
- Australasian Computer Music Conference; Wellington, New Zealand	**2022**
- 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 Fesitval de Música Electroacoústica 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**
- MoxSonic New Music Festival; Warrensburg, MO	**2020**

- *Seaswell* included in the Animated Notation Exhibit, TENOR Conference; Melbourne, Australia	**2019**
- Presentation of Lou Harrison's *Recording* Piece w/Talujon; PAS Conference; Indianapolis, IN	**2018**
- 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**
- 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**
- 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

- *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

- Medieval Rennassiance Music Conference; Granada, Spain: pyAMPACT Co-presenter	**2024**
- *Combining Symbolic and Audio Analysis* (w/Alexander Morgan, Johanna Devaney)	
- 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; 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*

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

- 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; *Pneuma I & II* for vibraphone, bassoon, and electronics **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

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