

Derek Kwan

computers and music

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- Education**
- 2021-present **MSc, Georgia Institute of Technology**, Computer Science
Specialization: Interactive Intelligence
 - 2011-2015 **DMA, State University of New York, Stony Brook**, Music (percussion)
Advisor: Eduardo Leandro
 - 2008-2010 **MA, Queens College, City University of New York**, Music (Percussion)
 - 2004-2008 **BASc, University of California, Davis**, Music (Percussion) and General Mathematics

- Publications**
- 2021 Alexandre Torres Porres, **Derek Kwan**, Matthew Barber “Almost 20 years of Cyclone: past, present, and future”. *Revista Vortex* 9 (2), 2021. <http://200.201.12.34/index.php/vortex/article/view/4553>
 - 2021 Anne Sophie Andersen, **Derek Kwan**. “Grisey’s ‘Talea’: Musical Representation As An Interactive 3D Map_”. *New Interfaces for Musical Expression (NIME)*, 2021. <https://nime.pubpub.org/pub/oiwz8bb7/release/1?readingCollection=71dd0131>
 - 2020 Sofy Yuditskaya, Sophia Sun, **Derek Kwan**. “Karaoke of Dreams: A multi-modal neural-network generated music experience”. *Joint Conference on AI Music Creativity (CSMC + MuMe)*, 2020. https://boblstorm.github.io/aimusic2020/papers/CSMC_MuMe_2020_paper_5.pdf
 - 2016 Alexandre Torres Porres, **Derek Kwan**, Matthew Barber. “Cloning Max/MSP Objects: a Proposal for the Upgrade of Cyclone”. *Fifth International Pure Data Convention (PdCon)*, 2016. https://derekxkwan.com/res/pdcon16_cyclone-paper.pdf

- Presentations and Workshops**
- 2021 **Karaoke of Dreams: A multi-modal neural-network generated music experience**
recorded virtual paper presentation with Sofy Yuditskaya and Sophia Sun for McGill Music Graduate Symposium (online)
 - 2020 **TidalCycles Live Coding Workshop**
workshop at Mars College on the TidalCycles Live Coding Environment (Bombay Beach, CA)
 - 2018 **socketMusic: wireless**
presentation and performance of new revision of my composition for improvised percussion, electronic sound, and mobile devices at Bates Digital Music Symposium (Lewiston, ME)

- Teaching**
- 2017 **Temporary Lecturer**, Music 107A Introduction to Electronic Music I, UC Davis
overview of electronic music history and recording studio basics with a focus on fixed-media composition

- Other Professional Experience**
- 2020-2021 **Music and Digital Art Curator, Art Music Lit Space**, online
write content (statements on curated art, exhibition statements) for the virtual exhibition space
 - 2013-2015 **Lab Assistant and Programmer, SBU Teaching Learning Lab**, Stony Brook NY
Working with SBU faculty on interactive digital media projects investigating novel methods of human-computer interaction and full-stack web application development for class-oriented learning tools and data visualization
 - 2013 **Audio/Video Collections Manager, SBU Music Library**, Stony Brook, NY
Archival activities for the music library’s analog and digital media
 - 2012-2013 **Graduate Assistant, SBU Computer Music Studio**, Stony Brook, NY

Running live sound reinforcement and technology management for music department concerts and setting up and running a new campus recording studio

2011-2012 **Graduate Assistant, SBU Contemporary Chamber Players**, Stony Brook, NY
Assist with the organization and planning of concerts and rehearsals

2010-2011 **Private Instructor in Percussion (freelance)**, (Flushing, NY)
Taught private lessons in percussion to students ranging from high school students to adults

Fellowships and Residencies

2022 **Composer Residency, Virginia Center for the Creative Arts**, Amherst, VA
2020 **Project Participant and Contributor, Art-a-Hack Dancedemic**, New York, NY / online
remote hackathon in conjunction with Battery Dance Festival

2020 **Resident, Bombay Radical Artificial Humanist Media Arts Nexus**, Bombay Beach, CA
2010 **Performance Fellow, Bang on a Can Summer Music Institute**, North Adams, MA
2008 **Performance Fellow, soundSCAPE Composer and Performance Exchange**, Pavia, Italy
2007 **Performance Fellow, International Marimba Festival**, Salzburg, Austria

Exhibitions

2020 **Small File Media Festival**, Vancouver, BC
glitch video [bombaybeach](#) featured at online festival
2019 **Music Makers Art Exhibition at Hacker Lab**, Sacramento, CA
featuring my computer-generated visual art [studious overachieving](#), [polyhealth](#), and [catmoticon portraits](#) alongside other visual art by musicians
2019 **The Brickhouse Art Gallery**, Sacramento, CA
month-long curation of work alongside work by Tavarus Blackmon and Boris Allenou

Honors and Awards

2008 **Phi Beta Kappa, University of California, Davis**

Relevant Graduate Coursework

Georgia Tech
Machine Learning (in progress)
Artificial Intelligence
Knowledge-Based AI
Computer Vision
Robotics: AI Techniques
Human-Computer Interaction
Educational Technology
Computer Networks
Software Development Process (in progress)

Skills

Python, (Scikit-learn, Numpy, Matplotlib, OpenCV)
C
Java
JavaScript, (Node.js, Electron, React)
Audio programming-__Pure Data__, **SuperCollider**, **TidalCycles**, various **DAWs**, (Logic, Ardour)
Other creative computing-__Processing__, basic physical computing with **Arduino**
Git, daily use of **Linux**