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 Al Music Creativity (CSMC + MuMe), 2020. https://boblsturm.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 Colletions 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

	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 Project Participant and Contributor, Art-a-Hack Dancedemic, New York, NY / online remote hackathon in conjunction with Battery Dance Festival
	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 Al Computer Vision Robotics: Al 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 programmingPure Data, SuperCollider, TidalCycles, various DAWs, (Logic, Ardour) Other creative computingProcessing, basic physical computing with Arduino Git, daily use of Linux

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