Derek Kwan

computers and music

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Education	2021-presen	t MSc, Georgia Institute of Technology , Computer Science (GPA: 4.00/4.00) Specialization: Interactive Intelligence
	2011-2015	DMA, State University of New York, Stony Brook , Music Performance (Percussion) (GPA: 3.95/4.00) Advisor: Eduardo Leandro
	2008-2010	MA, Queens College, City University of New York , Music Performance (Classical Percussion) (GPA: 3.975/4.00)
	2004-2008	BASc, University of California, Davis , Music (Percussion) and General Mathematics (GPA: 3.708/4.00)
Writing	2021	Alexandre Torres Porres, Derek Kwan , Matthew Barber. "Almost 20 years of Cyclone: past, present, and future". Revista Vortex 9 (2), 2021. https://doi.org/10.33871/23179937.2021.9.2.15
	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 (app: https://derekxkwan.github.io/taleavis/)
	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 (video: https://www.youtube.com/watch?v=YVYUmCHzzH8)
	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, online recorded virtual paper presentation with Sofy Yuditskaya and Sophia Sun for McGill Music Graduate Symposium
	2020	TidalCycles Live Coding Workshop , Bombay Beach, CA workshop at Mars College on the TidalCycles electronic music live coding environment
	2018	socketMusic: wireless , Lewiston, ME presentation and performance of new revision of my composition for improvised percussion, electronic sound, and mobile devices at Bates Digital Music Symposium
Teaching	2017	Temporary Lecturer , Music 107A: Introduction to Electronic Music I, UC Davis overview of electronic music history, recording studio basics, and fixed-media composition
Other Professional Experience	2020-2021	Music and Digital Art Curator, Art Music Lit Space, online write content (curation and exhibition statements) for the virtual exhibition space
	2013-2015	Lab Assistant and Programmer, SBU Teaching Learning Lab, Stony Brook NY Working under Paul St. Denis 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
	2012	Audio Midos Collections Manager CDU Music Library Stony Brook NV

Audio/Video Collections Manager, SBU Music Library, Stony Brook, NY

2013

	2012-2013	Graduate Assistant, SBU Computer Music Studio, Stony Brook, NY
		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 Organization and planning of concerts and rehearsals
	2010-2011	Private Instructor in Percussion (freelance), Flushing, NY
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 (https://artahack.io/projects/hieroglyph/)
	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		Deep Learning (in progress) Machine Learning Artificial Intelligence Knowledge-Based Al Computer Vision
		Robotics: AI Techniques Human-Computer Interaction Educational Technology
		Computer Networks Software Development Process
Projects	2022	Rhythm OLMITS
		an intelligent tutoring system for teaching musical rhythm performance originally developed for Georgia Tech's EdTech class (paper: https://smartech.gatech.edu/handle /1853/67085, code: https://github.com/derekxkwan/rhythm_olmits)
Skills		General programming - Python , (Scikit-learn, Numpy, Matplotlib, OpenCV), C , Java , JavaScript , (Node.js, Electron, React), ClojureScript
		Audio programming - Pure Data, SuperCollider, TidalCycles, various DAWs, (Logic, Ardour) Other creative computing - Processing, basic physical computing with Arduino
		and a second companing in accounting, basic physical companing man Arachite

Git, daily use of Linux

Archival activities for the music library's analog and digital media