

# Kelly Michael Fox

PhD Student, Department of the Arts  
Rensselaer Polytechnic Institute

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## Summary

Composer, Multimedia Artist and Programmer specializing in semi-autonomous and event-based sound installations and musical compositions.

## Education

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| 2015–2019 | <b>Doctor of Philosophy in Electronic Arts</b> , Rensselaer Polytechnic Institute, Troy, NY<br><i>Advisor:</i> Robert K. Hamilton  |
| 2013–2015 | <b>Master of Fine Arts in Electronic Arts</b> , Rensselaer Polytechnic Institute, Troy, NY<br><i>Thesis:</i> Actor-Network Music: A Paradigm for Distributed, Networked Music Composition — <i>Advisor:</i> Michael Century<br><i>Advisor:</i> Michael Century<br><i>Concentrations:</i> Electronic/Computer Music, Stochastic and Procedural Generative Systems for Sound & Visuals |
| 2010–2012 | <b>Bachelor of Arts in Music Composition</b> , Eastern Washington University, Cheney, WA<br><i>Advisor:</i> Dr. Jonathan Middleton<br><i>Concentrations:</i> Algorithmic Composition, Digital Performative Systems   |

## Current Projects

Nov 2014– Present | **BCx :: a musical/multimedia interpreted scripting language**, Proprietary interpreted scripting language for real-time or live coded musical and multimedia projects.

## Professional Experience

Aug 2015– Present | **Graduate Teaching Assistant**, Department of the Arts, Rensselaer Polytechnic Institute, Troy, NY. Courses: Game Development II, Orchestra, Choirs, and Chamber Ensembles.

July–Aug 2016 | **Lead Instructor**, Digital Media Academy, Harvard Campus, Cambridge, MA. Lead Instructor for students aged 12-17 in game programming with Python, Creative Coding with C++, and iOS App Development with Swift.

Oct–Nov 2014 | **Audio/Video Documentation Editor**, Center for Deep Listening, Rensselaer Polytechnic Institute, Troy, NY. Edited the audio and video documentation for the 2nd Annual Deep Listening Festival and Conference, at the Experimental Media and Performing Arts Center in Troy, NY.

July–Aug 2014 | **Research Associate Intern**, Disney Research, Pittsburgh, PA. Worked in the Disney Research lab on media and engineering technology research.

Oct 2013– May 2015 | **Front of House/Artist Services**, Experimental Media and Performing Arts Center @ Rensselaer Polytechnic Institute, Troy, NY

## Programming & Technical Projects

2016 – Present | **MadBPM**. Researcher and Software Developer for the MadBPM software, a platform for real-time data sonification using openFrameworks and Supercollider. Rensselaer Polytechnic Institute, Troy, NY.

2013 | **Rensselaer Orchestra**. Live electronics system developed for performance of “Four Meditations for Orchestra: III. Interdependence,” comp. by Pauline Oliveros. Concert Hall at Curtis R. Priem Experimental Media and Performing Arts Center, Rensselaer Polytechnic Institute, Troy, NY. November 23.

2012 | **WordChimes Group**. Sound designer for “WordChimes: Text Based Musical Composition.” The project was in support of the One Laptop Per Child initiative. Spring 2012.

## Selected Publications

- 2016 “Autonomy, Control, and Notation in Interactive Music.” Paper Presentation, Tenor: International Conference on Technologies for Music Notation and Representation, Cambridge, United Kingdom. May 27-29.
- 2015 “Accretion: Flexible, Networked Animated Music Notation for Orchestra With the Raspberry Pi.” Poster Presentation, Tenor: International Conference on Technologies for Music Notation and Representation, Paris, France. May 28-30.

## Selected Talks and Panels

- 2016 “Sound Programming in Interactive Applications.” Workshop/Participatory Talk. NY Capital Hackathon for Inclusivity, Rensselaer Polytechnic Institute, Troy, NY. April 16.
- “Introduction To SuperCollider.” Workshop/Participatory Talk. *Arts 4060: Art & Code & Interactivity*. Rensselaer Polytechnic Institute, Troy, NY. April 16.
- 2015 “Art, Science, and the Empirical Artist.” Panel discussion. A4 Contemporary Arts Center, Chengdu, Sichuan, China. June 20.
- “Notation and Compositional Methods.” Panel discussion. Chapin Hall, Williams College, Williamstown, MA. April 18.
- 2014 “Sonification and Data in Generative Systems.” Lecture/Presentation. *Comm 6960: Interactive Media Design*. Rensselaer Polytechnic Institute, Troy, NY. May.
- 2013 “Electro-Acoustic Music and Autonomous Musical Systems.” Lecture/Presentation. *Arts 4410: Deep Listening*. Rensselaer Polytechnic Institute, Troy, NY. October.
- “Granular Synthesis and Artificial Life in Music Composition.” Lecture/Presentation. *Arts 4961: Advanced Computer Music*. Rensselaer Polytechnic Institute, Troy, NY. November.
- 2012 “Digital Instrumental Modeling and the Ondes Martenot.” Undergraduate Thesis Paper and Project. Eastern Washington University, Cheney, WA. December.
- “Instrument Design and Modeling Within Audio Programming Environments.” Poster Presentation, Student Research and Creative Work Symposium, Eastern Washington University, Cheney, WA. May.
- 2011 “PRTC: Portable Real-Time Convolution System.” Interactive Lecture/Presentation, Eastern Washington University, Cheney, WA. March.

## Selected Performances/Works Exhibited

- 2017 **National Student Electronic Music Event**, Louisiana State University Digital Media Center, Baton Rouge, LA. "Parallel". Collaboration with Raven Kwok. March 10-11.
- 2016 **The International Creative Cities Design Forum**, The Driving Forces for Design & Innovation, 800 Show, Jingan, Shanghai, China. "Algorithmic Menagerie" (for algorithmic sound and interactive graphical projection). Collaboration with Raven Kwok. December 15.
- Tech Valley Center of Gravity**, Algorave 0x01, Troy, NY. "lc\_04" (livecoding set with Tidal/SuperDirt). April 29.
- Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. "Field Cuts Encounter 6" (for movement, video, and music). Collaboration with Jeremy Stewart. March 10.
- 2015 **Tech Valley Center of Gravity**, Algorave 0x00, Troy, NY. "lc\_02" (livecoding set with SuperCollider). November 20.
- Banpo International Art Zone**, Dark Matters Exhibition, Xi'an, Shaanxi, China. "Algorithmic Menagerie" (for algorithmic sound and interactive graphical projection). Collaboration with Raven Kwok. September 21 - December 21.
- A4 Contemporary Arts Center**, Absolute Infinite Game Exhibition, Chengdu, Sichuan, China. "Algorithmic Menagerie" (for algorithmic sound and interactive graphical projection). Collaboration with Raven Kwok. June 20 - September 20.
- Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. "Accretion." Musical Composition written for orchestra with real-time animated notation scoring. November 22.
- Williams College**, Williamstown, MA. "Opera1." Collaboration with Ryan Ross Smith. April 18.
- Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. "Opera1." Collaboration with Ryan Ross Smith. April 17.
- Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. "Parallel." Collaboration with Raven Kwok. Culmination of MFA Thesis study which emphasizes generative, realtime, distributed, and massively scalable music composition for custom mobile device app designed and programmed by artists. March 5-7.

- 2014 | **On the Boards**, Seattle, WA. “Crazed.” Contributed original music and sound design for devised piece created by and for Seattle theatre group The Horse in Motion. November 23.
- | **Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. “Accretion.” Musical Composition written for orchestra with real-time animated notation scoring. November 22.
- | **Experimental Media and Performing Arts Center**, Rensselaer Polytechnic Institute, Troy, NY. “Algorithmic Menagerie” (for algorithmic sound and interactive graphical projection). Collaboration with Raven Kwok. March 27-29.
- 2013 | **Arts Graduate Student Exhibition**, Rensselaer Polytechnic Institute, Troy, NY. “Charivari” (for multi-channel computer realized sound installation). December 6th.
- 2012 | **Gallery 1412**, Seattle, WA. “(subtitle)” (for custom synthesizer and feedback system). May.

## Residencies

- 2015 | **EMPAC**, Rensselaer Polytechnic Institute, Troy, NY. July 6–18.

## Curation

- Nov 2014–  
May 2015 | **Sonic Stasis**, The Arts Center of the Capitol Region, Troy, NY. Co-curation of a call for works as part of the Bookmarks Reading Series. The event presents sonic expressions of personal experience while de-emphasizing the textual approach of literary memoir.