Alex MacLean

Computer Programmer and Media Artist
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EDUCATION

2021	**Algorithmic Composition and Sound Design**, Dadageek Academy, Thomas Echols, Online
2020	**Deep Learning Specialization**, Coursera, Andrew Ng, Online
2019-2020	**McMaster University**, Hamilton, Ontario, Canada MA in Communication and New Media
2019	**Machine Learning for Musicians and Artists**, Kadenze, Rebecca Fierbrink, Online
2012-2017	**Western University**, London, Ontario, Canada HBSc in Computer Science
2010-2012	**Fanshawe College**, London, Ontario, Canada Diploma in Music Industry Arts

PERFORMANCES

Jul 2020	**Oceanic "Datanimism"**, Networked Music Festival, Remote Web-based installation featuring an audio composition based on a data sonification of rising sea-level data
Feb 2020	**Bionic March**, International Conference on Live Coding, Limerick, Ireland Live coding performance with voice and machine listening

Exhibitions

Jul 2020	**Immersive Dreams**, New Interfaces for Musical Expression, Remote Demo presentation of an interactive virtual reality sound installation
Dec 2019	**Immersive Dreams**, Imaginary Landscapes, McMaster University, Canada Interactive virtual reality sound installation
Dec 2019	**Scrap Focus**, Sensorium of Things, McMaster University, Canada Multi-channel sound installation

WORKSHOPS

Jul 2020   **Electronic Literature + Live Coding Jam/Workshop**, ELO,
Remote
(w/ David Ogborn, Alex McLean, Alejandro Franco, Luis N.
Del Angel, and Jessica Rodriguez)

Jul 2020   **Practices and Techniques for Networked Live Coding Bands**,
Networked Music Festival, Remote
(w/ The Cybernetic Orchestra)

Feb 2020   **Multi-lingual audio-visual collaboration**, ICLC,
Limerick, Ireland
(w/ David Ogborn, Jamie Beverley, Alejandro Franco,
Luis N. Del Angel, and Jessica Rodriguez)

TEACHING

2021-Pres. **Instructor**, Dadageek Academy, Online
Developed online, asynchronous workshop and course
content for collaborative live coding

2019-2020 **Teaching Assistant**, McMaster University
Supervisor: Dr. David Ogborn
Lead weekly tutorials, held office hours, and marked
student assignments for the department of Communication
Studies and Multimedia
Fall 2019 - MMEDIA 2G03: Intro to Digital Audio
Winter 2020 - MMEDIA 1A03: Multimedia and Digital
Society

RESEARCH

2019-2020 **Master's Thesis**, McMaster University
Supervisor: Dr. David Ogborn
Research and development of a software system called
Switch Jockey - an intelligent, automated video switcher
for WebGL shaders
https://www.alexmaclean.ca/switch-jockey/

2019-2020 **Research Assistant**, McMaster University
Supervisor: Dr. David Ogborn
Assisted in the development of the Estuary, a platform
for collaboration and learning through live coding
https://estuary.mcmaster.ca/

PROFESSIONAL EXPERIENCE

2020-Pres. **Applied Machine Learning Engineer**, Evertz Microsystems
Development and deployment of state-of-the-art ML/AI
algorithms for the benefit of the broadcast industry

2017-2019 **DevOps and Cloud Engineer**, Evertz Microsystems
Participated as a member of the Deployment Strategy Team to
automate software delivery on AWS, VMWare, and bare metal

2015-2016 **Biocloud and Data Grid Project Intern**, Agriculture and Agri-Food Canada
Planned, deployed, and maintained multiple private cloud environments for testing bioinformatics applications

SCHOLARSHIPS, GRANTS, AND AWARDS

2021 **Research and Creation Grant**

Awarded by the Canada Arts Council for $10,000 of creative research

2019 **Entrance Scholarship**
Awarded upon acceptance to McMaster's MA program in Communication and New Media

2014 **Laurene Patterson Estate Scholarship**
Awarded in November 2014 to a Western Science student who has shown outstanding academic merit

2012 **Best Audio Product**
Awarded upon graduation from Fanshawe College in April 2012 for a recording of an original song