

README.md



WEBSITE: maxis.cool

EMAIL: mail@maxis.cool

CV: maxis.cool/cv

Indie Audio Programmer, 9/19 – Now

digital signal processing, music production software

- [Frequency Explorer: a microtonal additive synthesizer](#) `HTML` `CSS` `JavaScript`
- [scalemap: a math-enabled string format for musical tunings](#) `C` `C++` `JavaScript`

Programmer @ The Recurse Center, 7/19 – 9/19

a self-directed, community-driven educational retreat for programmers

- [Repitch: a real-time, MIDI-controlled audio harmonizer](#) `C++` `JUCE`

Research Intern @ Numenta, 12/18 – 4/19

machine learning, theoretical neuroscience

- [Localization in simulated 1D + 2D environments with simple recurrent networks](#) `Python` `PyTorch` `Matplotlib`

MS, Astronomy @ The University of Wisconsin–Madison, 6/15 – 8/17

binary star systems, stellar evolution models, observational astronomy

- ["A Curiously Young Star in an Eclipsing Binary in an Old Open Cluster"](#) `IRAF` `IDL` `Python`

BS, Physics @ The College of New Jersey, 8/11 – 5/15

galactic jets, time-domain astrophysics, computational fluid dynamics

- ["Variability in Active Galactic Nuclei from Propagating Relativistic Turbulent Jets"](#) `Mathematica` `C` `FORTRAN`